

**Marking Systems
Tools
Mounting Material
2015 / 2016**

5





Marking systems, tools, and mounting material



Terminal blocks

- Terminal blocks



Interface technology and switching devices

- Electronic switching devices and motor control
- Measurement and control technology
- Monitoring
- Relay modules
- System cabling for controllers



Sensor/actuator cabling and industrial connectors

- Sensor/actuator cabling
- Cables and lines
- Connectors



Control technology, I/O systems, and automation infrastructure

- Lighting and signaling
- Fieldbus components and systems
- Functional Safety
- HMIs and industrial PCs
- I/O systems
- Industrial Ethernet
- Industrial communication technology
- Software
- Controllers
- Wireless data communication



Surge protection and power supplies

- Surge protection and interference suppression filters
- Power supplies and UPS
- Protective devices



PCB connection technology and electronics housing 2013/14

- PCB terminal blocks and PCB connectors
- Electronics housing

Connection technology for field devices 2013/14

- Connectors
- Cables and lines

Find out more with the web code

On some of the catalog pages, you can find our web codes: a number sign followed by a four-digit number combination.

i Web code: #1234 (example)

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1. Go to the Phoenix Contact website
2. Enter # and the number combination in the search field
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Information on these products can be found in the electronic product catalogs for 2013/14.










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Marking systems, tools, mounting material

Product range in pictures

Planning and marking software



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Planning and marking software Page 16
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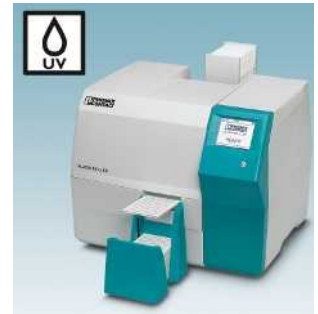
Marking systems - MARKING system



TOPMARK LASER for industrial marking
TOPMARK LASER Page 28



TOPMARK LASER set Page 29



BLUEMARK CLED for printing UniCard materials - as easy as printing on paper
BLUEMARK CLED Page 31



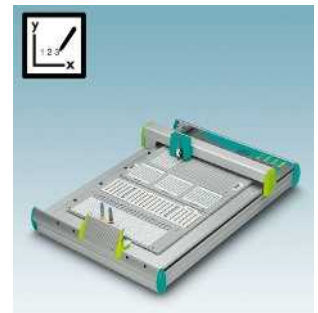
Thermal transfer printer sets
MARKING BOX Page 38



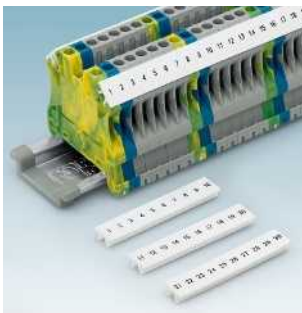
Thermal transfer printer for roll material
THERMOMARK X1.2 Page 40



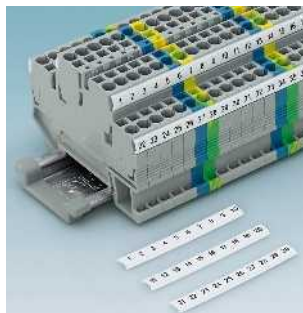
Thermal transfer printer for shrink sleeves
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THERMOMARK W2 Page 41



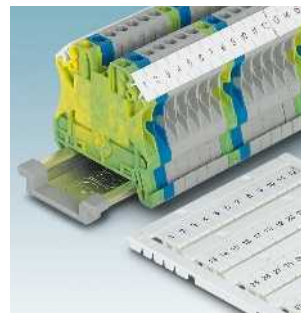
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CMS-P1-PLOTTER Page 42



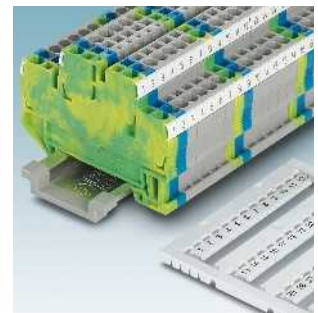
Zack marker strip terminal marking for a tall marker groove, for printing with plotter ZB... Page 62



Zack marker strip terminal marking for a tall and flat marker groove, for printing with plotter ZB... Page 62



UniCard terminal marking for a tall marker groove, for printing with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-TM... Page 76



UniCard terminal marking for a tall and flat marker groove, for printing with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-TM... Page 76



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UniCard marking for terminal blocks from other manufacturers, for printing with BLUEMARK, TOPMARK LASER, and THERMOMARK CARD Page 106

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Stainless steel or aluminum laser cable marking for marking with TOPMARK LASER LS-WMTB... Page 157



Printer set
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Thermal transfer printer for printing plastic material in UCT and US format
THERMOMARK CARD Page 32



Thermal transfer printer for roll material
THERMOMARK ROLL Page 36

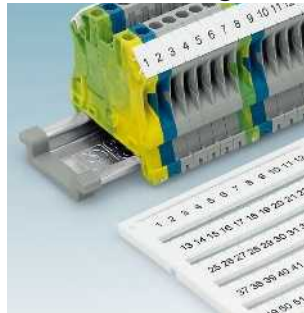


Thermal transfer printer for roll material
THERMOMARK ROLL X1 Page 37

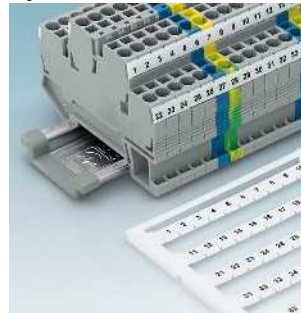
Terminal marking - MARKING system



Plotter with engraving unit
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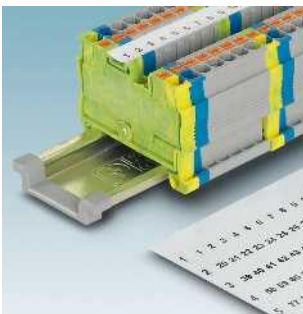
UniCard terminal marking for a tall marker groove, for printing with BLUEMARK
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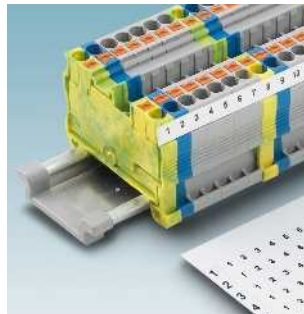
UniCard terminal marking for tall and flat marker groove, for printing with BLUEMARK
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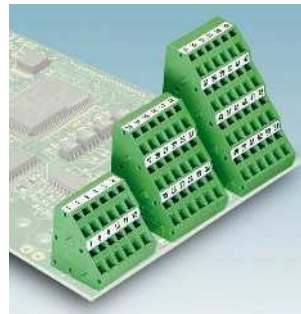
UniCard terminal marking for marking stud holders, for printing with BLUEMARK
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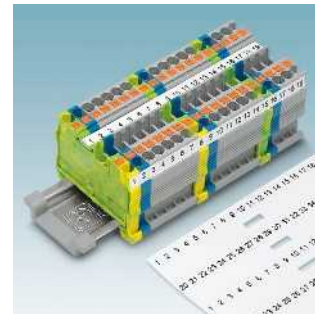
UniSheet terminal marking for a universal marker groove, for printing with
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Self-adhesive marker strips for terminal blocks without a marker groove, for printing with
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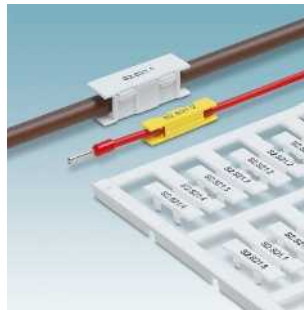


Marker strips for terminal marking, for a tall and flat marker groove, for printing with
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cable marking - MARKING system



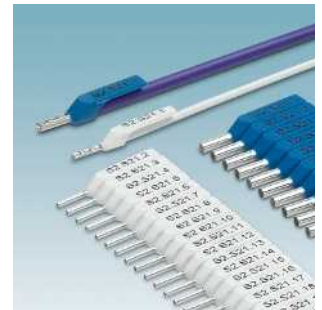
Aluminum cable marking for assembly with cable binders, for printing with
BLUEMARK CLED
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UniCard clip-on conductor marking, for printing with BLUEMARK
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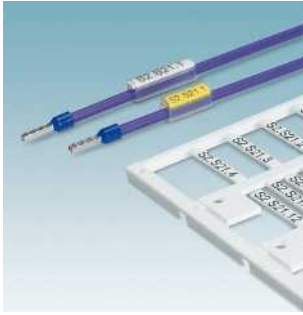


UniCard conductor marking for threading, for printing with BLUEMARK
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Conductor marking with ferrules that can be marked, for printing with BLUEMARK
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UniCard cable marking for assembly with cable binders, for printing with BLUEMARK UC-WMTB... Page 172
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UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMT... Page 174



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Self-adhesive conductor marking with transparent protective foil, for printing with THERMOMARK ROLL WML... Page 185
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UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMCO... Page 177



UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMTBA... Page 178



UniCard conductor marking for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-WMTB... Page 179



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Stick-on aluminum device marking, for printing with BLUEMARK CLED EMLP-AL... Page 237



Aluminum device marking to be screwed in or riveted, for printing with BLUEMARK CLED EMSP-AL... Page 238



Aluminum device marking that can be snapped into marker carriers, for printing with BLUEMARK CLED EMP-AL... Page 239



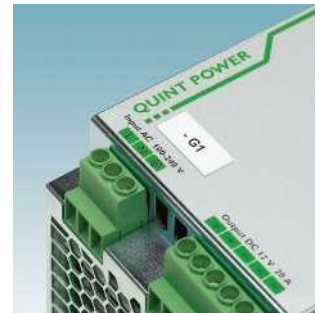
UniCard device marking that can be snapped into marker carriers, for printing with BLUEMARK UC-EMP... Page 243



UniCard snap-in device marking, for printing with BLUEMARK UC-EM... Page 245



UniCard snap-in device marking for various manufacturers, for marking with TOPMARK LASER, BLUEMARK, and THERMOMARK CARD UCT-EM... Page 248

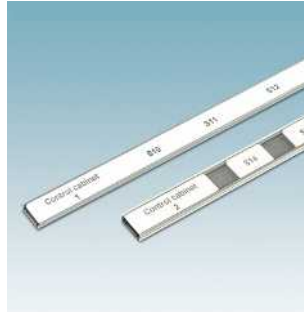


UniSheet stick-on device marking, for printing with THERMOMARK CARD US-EMLP... Page 254
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Product range in pictures



UniSheet device marking for snapping into marker carriers, for printing with THERMOMARK CARD
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Device marking for snapping into marker carriers, for printing with THERMOMARK CARD
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Stick-on mandatory signs, preprinted and for printing with THERMOMARK
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Marking systems, tools, mounting material

Product range in pictures

Hand tools - TOOL fox



Cable cutter
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Cable cutter with ratchet function for
minimum effort
CUTFOX... Page 360



UNIFOX VDE combination pliers
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WIREFOX stripping tool, angled
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WIREFOX stripping tool
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WIREFOX stripping tool
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Basic pliers for accommodating various
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Basic pliers for accommodating various
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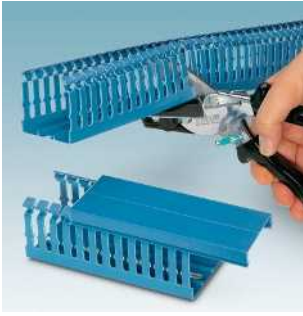
SCREWFOX universal control cabinet keys
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Cable duct cutter
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MICROFOX pliers for all electronics
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Stripping tool for solar cables
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CRIMPHANDY - portable hand-held
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for stripping and crimping in just one step
CRIMPHANDY Page 384



CRIMPFOX 4 IN 1 multi-functional crimping
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SCREWFOX cordless screwdrivers
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Tool sets equipped according to customer
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Tool bags with customized
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Ferrules, slip-on sleeves, cable lugs, ring
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Product range in pictures

Automatic devices - TOOL fox



Automatic cutting device for conductors and cables
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Stripping machine
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Portable crimping machine for ferrules, cable lugs, and connectors
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CRIMPHANDY portable hand-held device
CF CRIMPHANDY 1,0 Page 476
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Snap-on end brackets without screws
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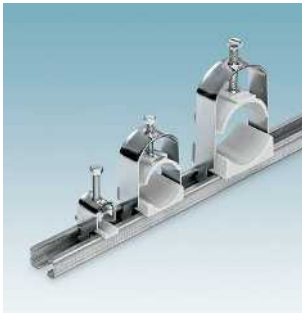
Cover profiles
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Power, branch, and L/N/PE connection terminal blocks
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Europe terminal blocks and junction box connectors
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DIN rail with cable clamps
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Protective hoses made of plastic
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Screw connections for protective hoses
WP-G HF... Page 560



Spiral hoses
WG-S HF... Page 575

Mounting material - CABINET add-on



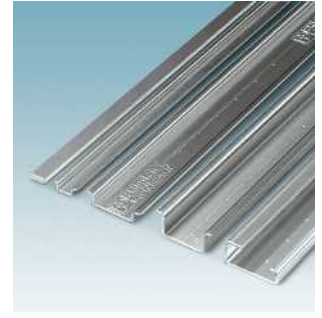
Portable stripping and crimping machine for taped products
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CLIPSAFE stainless steel Ex terminal boxes and empty housings Page 484
CLIPSAFE ABS terminal boxes Page 496



Ex cable glands Page 500



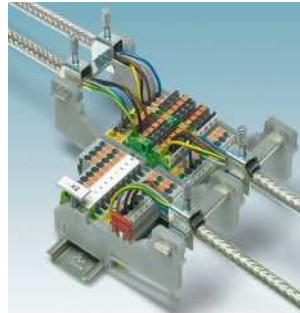
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Sockets with a 45 mm standard pitch SD-D... Page 540



Shield connection clamps SK... Page 542



Support bracket for single-sided shielding AB-SK... Page 544
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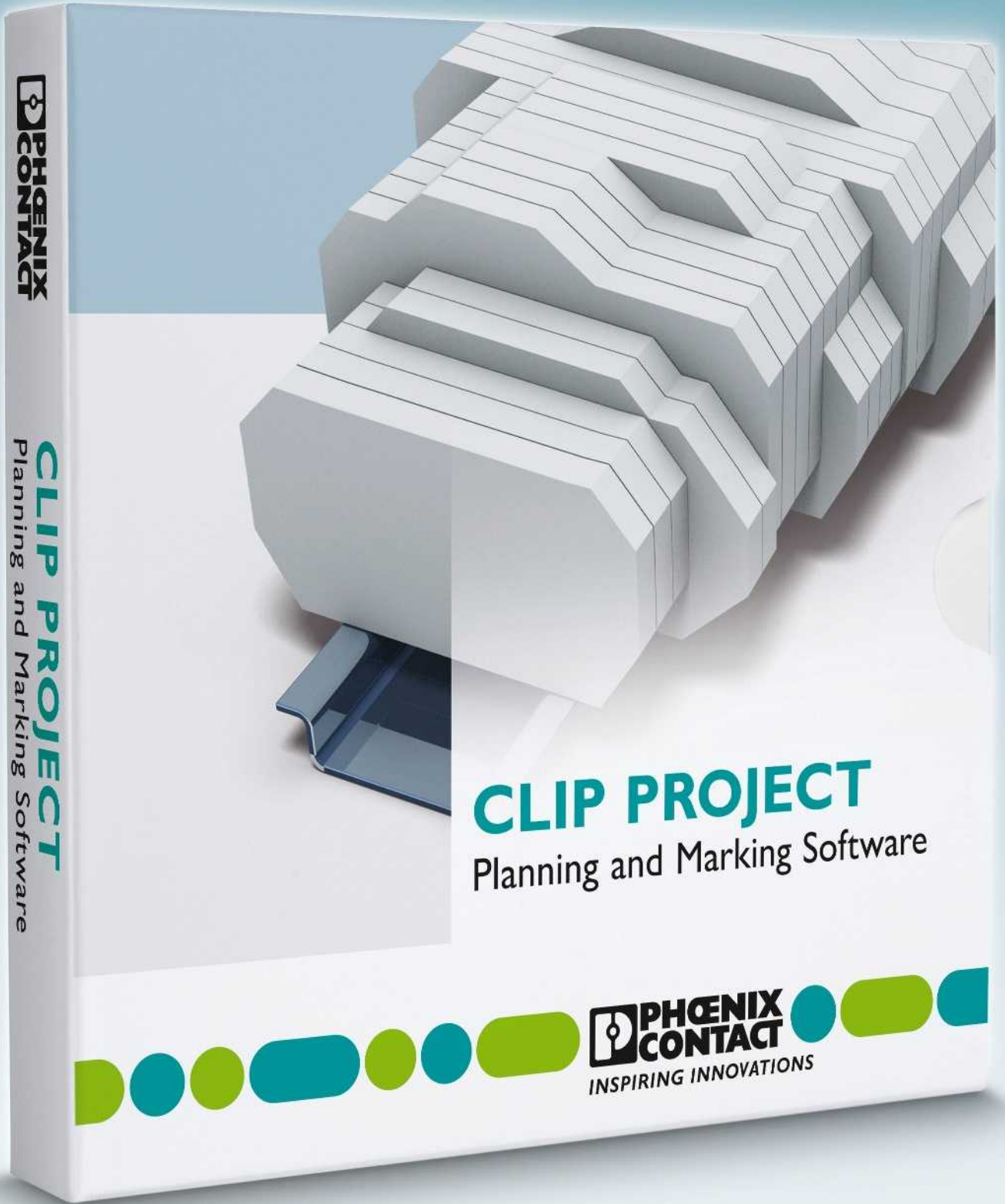
Cable ducts and accessories CD... Page 553



Plastic cable markers for insert labels KMK... Page 582



Cable binders Page 588



PHOENIX CONTACT

CLIP PROJECT
Planning and Marking Software

CLIP PROJECT

Planning and Marking Software

PHOENIX CONTACT
INSPIRING INNOVATIONS

Planning and marking software, customer-specific printing service, and MARKING system app

The CLIP PROJECT Planning and Marking software consists of two modules:

- CLIP PROJECT Planning enables the quick and convenient planning and configuration of fault-free terminal strips.
- CLIP PROJECT Marking is a powerful piece of software for the creation of individual labels for terminal blocks, cables, lines, devices, and systems.

Thanks to the optimum interaction between the two modules, even in connection with electrical planning systems, the result is an end-to-end process chain: from planning and documentation, right through to the finished terminal strip or the finished marking.

The advanced version, CLIP PROJECT PROFESSIONAL, also features an efficient template designer, which can be used to design custom labels.

All marking materials in the portfolio can also be ordered as customer-specific printed versions. Within no time at all, you will receive high-quality marking solutions, printed according to your individual requirements.

Which marking suits your requirements? Find out with the MARKING system app!

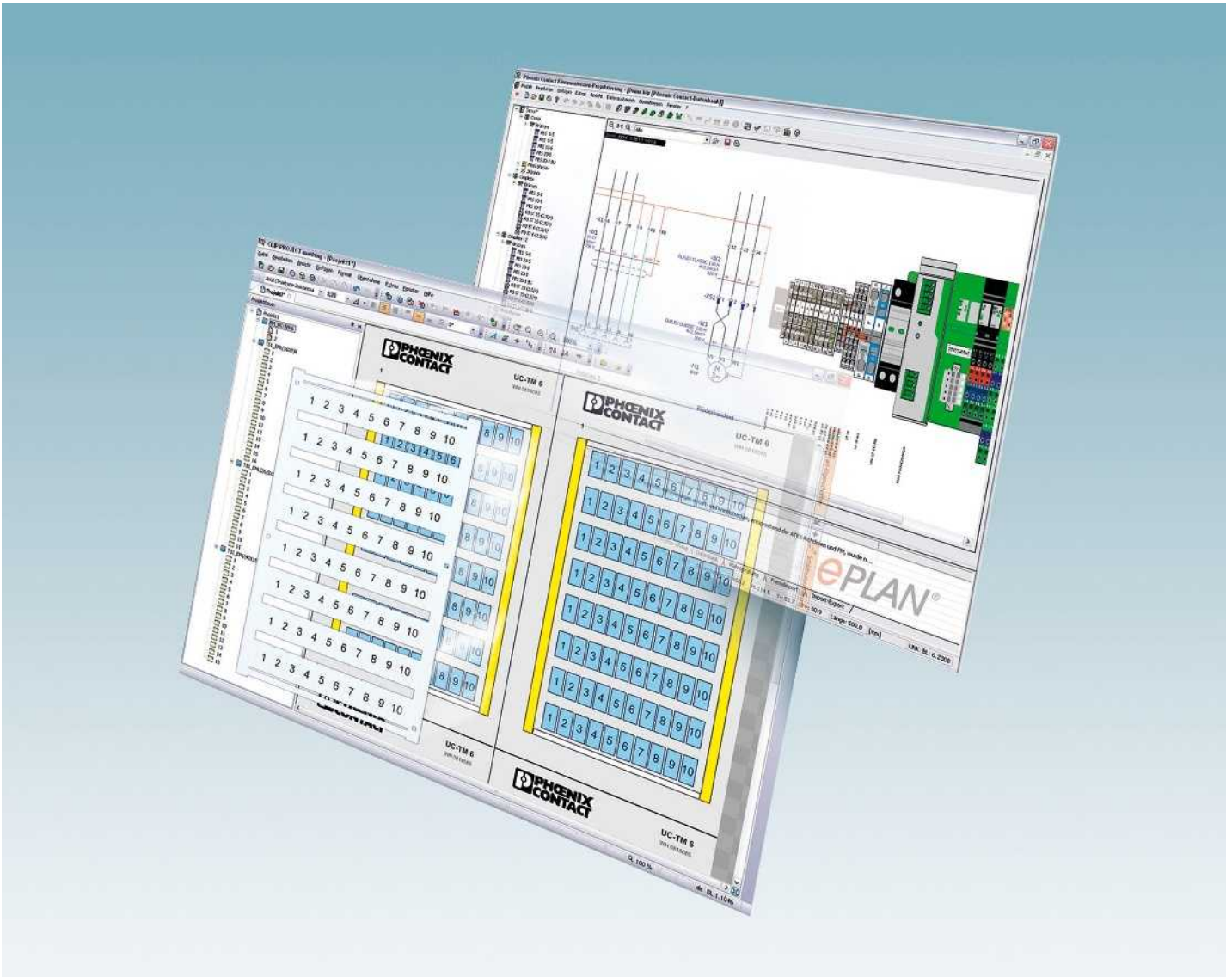
Quickly and easily find the right solution with either the structured search assistant or the integrated product scanner. Thanks to the material editor, you can also create the required markings directly in the application environment.

Expand your THERMOMARK LINE printer with the MINI FD BLUETOOTH Bluetooth USB stick and send your print orders directly and wirelessly (or via USB connection) to the printer from your tablet PC or smartphone.

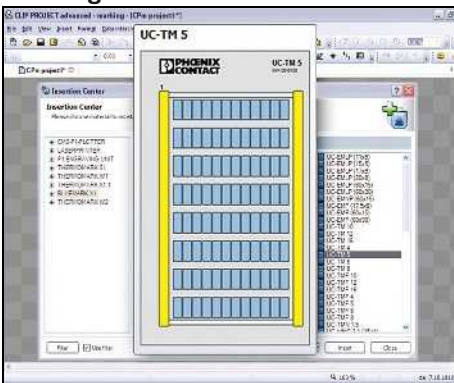
CLIP PROJECT Planning and Marking software	16
<hr/>	
CLIP PROJECT advanced	18
CLIP PROJECT professional	19
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MARKING system app	22

Marking and labeling - MARKING system

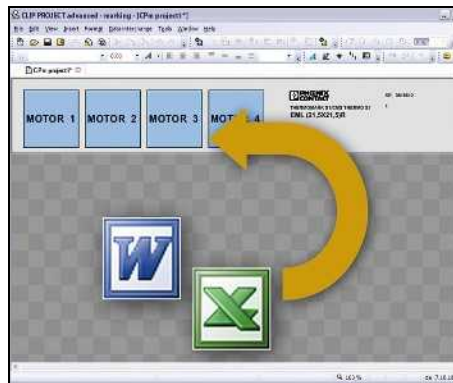
Planning and marking software, customer-specific printing service, and MARKING system app



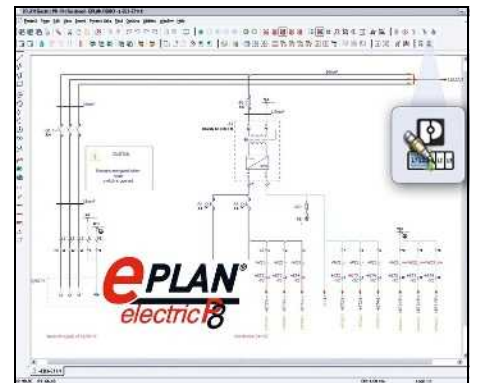
Marking module



During selection, the marking materials are displayed as a preview for rapid product selection.

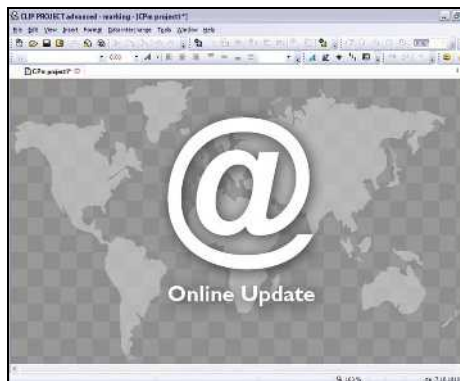


Interfaces to all CAE systems and spreadsheet and text processing programs are provided for the open exchange of data.

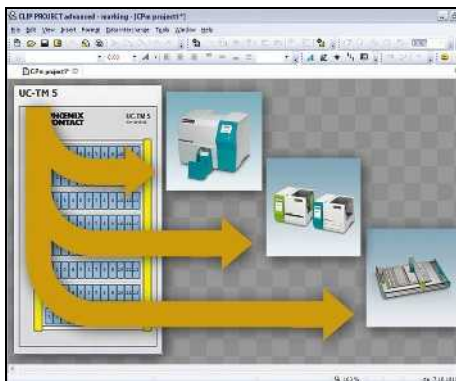


By integrating CLIP PROJECT into EPLAN P8, the marking data for terminal, conductor, and device marking can be automatically taken from the circuit diagram.

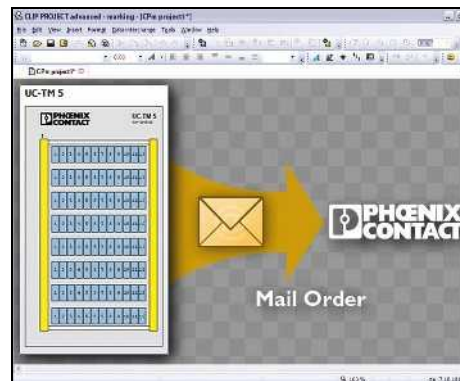
Planning and marking software, customer-specific printing service, and MARKING system app



The online update immediately provides the user with new products and program extensions for the marking and planning module.

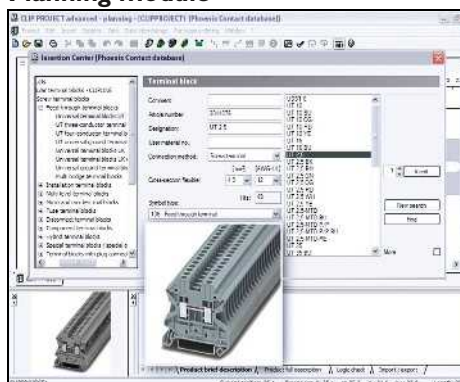


All Phoenix Contact output devices and standard office printers can be easily controlled with just one piece of software.

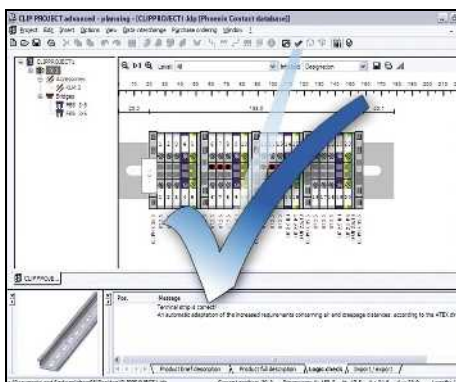


Phoenix Contact provides a marking service. Orders can be placed by e-mail and all items printed and supplied to suit the customer.

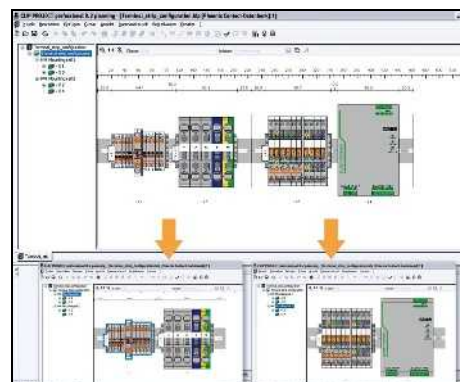
Planning module



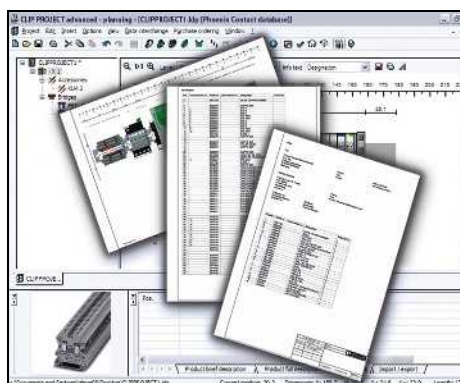
During selection, all Phoenix Contact products which can be fitted on DIN rails are displayed as a preview for rapid product selection.



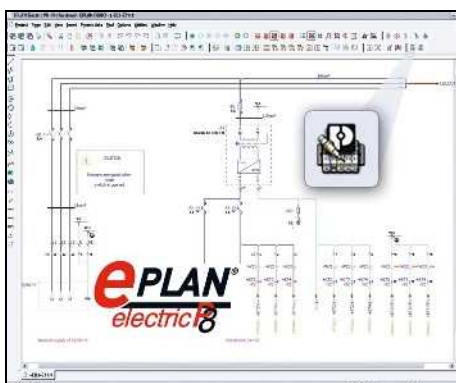
The automatic correction function checks the configured terminal strip and automatically adds any missing accessories. 2D and 3D design data are available at the click of a mouse.



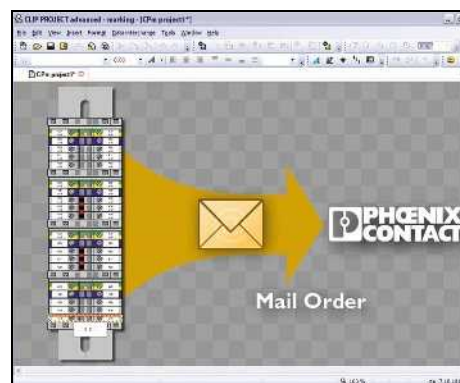
The configured terminal strips can be distributed across several DIN rails in order to determine the exact space requirements for installation.



Complete documentation and an effective 3D preview are available for rapidly and correctly producing the mechanical structure of the terminal strips.



By integrating CLIP PROJECT into EPLAN P8, terminal strips are automatically produced from the circuit diagram in CLIP PROJECT. The product data is written back to the EPLAN parts lists using the two-way interface.



Phoenix Contact provides a terminal strip service. The terminal strips configured to suit your requirements can be ordered using the e-mail function. Phoenix Contact will supply the terminal strips promptly.

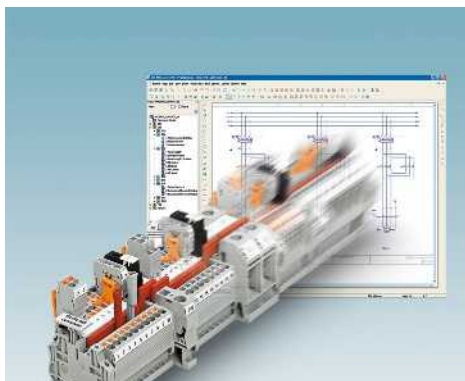
CLIP PROJECT ADVANCED

The CLIP PROJECT ADVANCED program enables the quick planning and configuration of terminal strips for the control cabinet and field as well as custom-marking of terminal blocks, cables and lines, and devices and systems:

- Planning of terminal strips with components of the CLIPLINE, INTERFACE, TRABTECH, and AUTOMATION product ranges
- The automatic correction function performs a logical test of the terminal strips and automatically adds the necessary accessories such as covers and end brackets
- The terminal strip configurator enables the distributed arrangement of individual terminal strips on different DIN rails
- 3D preview and complete documentation of the assembled DIN rails, such as order and mounting lists
- High-performance import of marking information and extensive design options for the custom-marking of terminal blocks, cables, and lines, as well as devices and systems
- Numerous sorting and filter functions for efficient management of your print jobs
- Support for all marking materials and output devices from Phoenix Contact
- Automatic Internet update
- Intuitive Windows® user interface

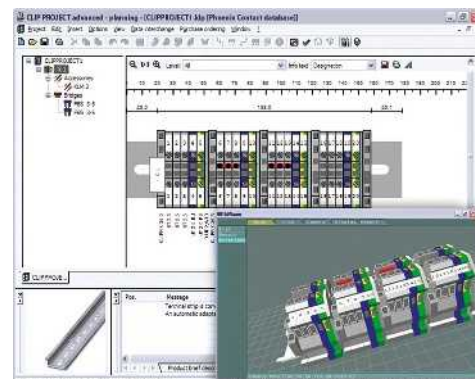
To reduce engineering costs and improve data quality, CLIP PROJECT ADVANCED supports data exchange with electrical planning systems in both directions:

- With the circuit diagram as the basis, the required products are automatically selected and their complete data written back to the parts lists
- The marking information can be automatically exported and assigned to the desired marking materials
- In order for the marking to be assigned clearly, even in the case of extensive projects, the project structure tree from the CAE system has been adopted in CLIP PROJECT; this also allows the marking to be output to sub-projects



General data
Software interface
System requirements
Operating systems
Description
CLIP PROJECT advanced, planning and marking software, German/English/French/Dutch/Italian/Spanish/Russian/Polish/Hungarian/Czech/Turkish/Portuguese/Chinese and Japanese

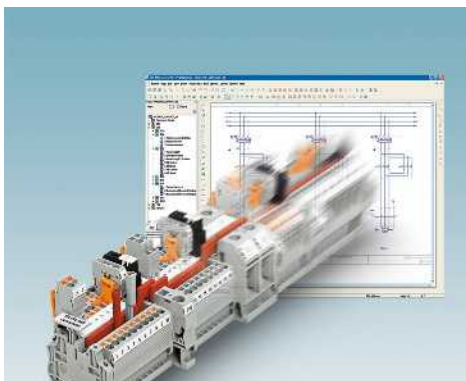
Technical data		
EPLAN 5.7 EPLAN Electric P8 AUCOTEC ELCAD AUCOTEC Engineering Base AUCOTEC RUPLAN ZUKEN E ³ Bentley Promis-e WSCAD IGE XAO PC-Schematic AUTOMATION SDProget SPAC		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CLIP-PROJECT ADVANCED	5146040	1



CLIP PROJECT PROFESSIONAL

The CLIP PROJECT Planning and Marking software is available in both an **ADVANCED** and **PROFESSIONAL** version:

- The **PROFESSIONAL** version also includes an efficient template designer, which can be used to design custom labels and adapt existing material descriptions
- Graphics, various barcode types, and geometric elements such as squares, circles, and lines can be accessed for design work
- Data can also be imported into the templates from various data sources
- Rapid, simple, and flexible adaptation to changing requirements



General data

Software interface

System requirements

Operating systems

Description

CLIP PROJECT professional, planning and marking software, with template designer, German/English/French/Dutch/Italian/Spanish/Russian/Polish/Hungarian/Czech/Turkish/Portuguese/Chinese and Japanese

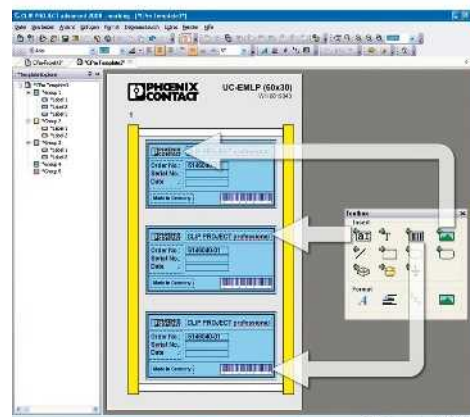
Technical data

EPLAN 5.7
EPLAN Electric P8
AUCOTEC ELCAD
AUCOTEC Engineering Base
AUCOTEC RUPLAN
ZUKEN E³
Bentley Promis-e
WSCAD
IGE XAO
PC-Schematic AUTOMATION
SDProget SPAC

MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)

Ordering data

Type	Order No.	Pcs. / Pkt.
CLIP-PROJECT PROFESSIONAL	5146053	1





Easy ordering process via CLIP PROJECT and e-mail

You can create customer-specific marking quickly and easily via CLIP PROJECT and order via e-mail.



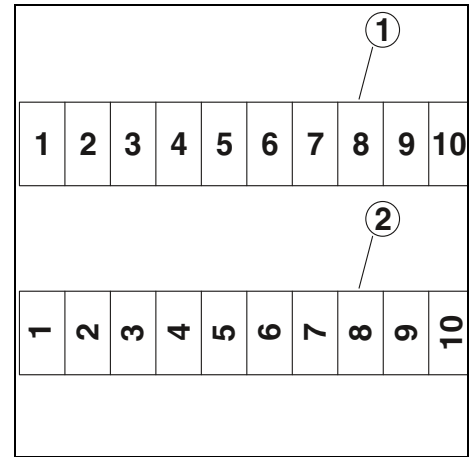
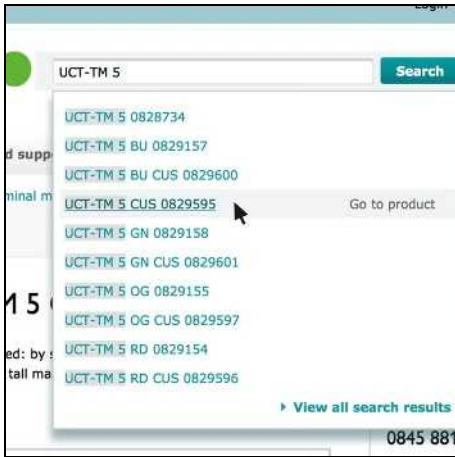
New: color-printed marking solutions

You can use marking materials in UniCard and UniSheet format as well as metal labels for color printing.



We create marking materials according to your requirements

All materials which can be marked according to customer requirements are indicated with this symbol. The ordering process is described for you on the following page.



Special marking orders, step 1

All marking materials are available on our website for your custom printing. Simply search for the required item on our website and select the material with the ending ...CUS.

Special marking orders, step 2

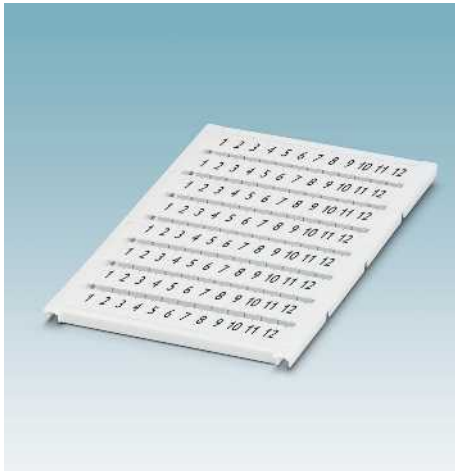
Configuration of the selected CUS item: under **Configuration**, you can enter the required marking data in the free text field.

Tasks required:

- Marking text
- Font size
- Read direction "horizontal" (1) or "vertical" (2)
- Normal or bold print
- Please send special characters, symbols, and logos as an image file

Special marking orders, step 3

- Zack marker strip (ZB...): 1 strip
- Card material (US...): 1 card
- Plastic sheet (e.g., UC(T)...): 1 sheet
- Sheet material (e.g., BMKL...): 1 sheet
- Rolls (e.g., EML (...x.)R): 1 strip (row)
- Metal labels for BLUEMARK CLED (e.g., EMP-AL...): 1 label



Individually marked according to customer requirements:

You will receive your marking materials, custom-marked according to the marking requirements you have provided, as quickly as possible.

Find out more with the web code

Detailed information on these products can be found on our website.

#0289

Simply enter # and numbers in the search field.



Marking and labeling - MARKING system

Planning and marking software, customer-specific printing service, and MARKING system app



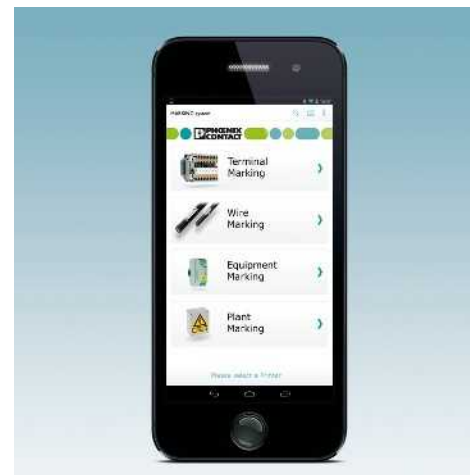
Marking editor

The marking editor allows you to create the required markings directly in the application environment via tablet PC or smartphone.



Product scanner

The product scanner allows you to quickly and easily call up technical data for the marking material or directly mark it via the material editor.



Search assistant

With the search assistant, you can carry out a structured, targeted search for suitable marking materials, even without knowledge of this field.

MARKING system app and MINI FD BLUETOOTH



Notes:
For further information on the THERMOMARK LINE printers, please refer to the product area on our website at phoenixcontact.net/products.



You can retrofit your THERMOMARK LINE printer with MINI FD BLUETOOTH. MINI FD BLUETOOTH enables reliable wireless data exchange between THERMOMARK LINE printers and mobile, Bluetooth-capable devices, such as smartphones and tablet PCs. This means that print orders can be conveniently sent to the printer using the MARKING system app.

Functions of the MARKING system app:

- Material editor for mobile marking of marking materials
- Product scanner for calling up appropriate marking solutions quickly and conveniently
- Search assistant for searching for marking materials quickly and easily – even without knowledge of this field
- My projects: manage the projects you have created in a structured and clear manner
- List of saved items: save the required number of your desired item along with a short description for traceability
- Favorites: save frequently used marking materials
- Easily set the right print parameters from your tablet PC or smartphone

General data	
Application	USB/Bluetooth
Transmission speed	3 [Mbps]

Description
Bluetooth USB adapter

Thermal transfer printer for cards, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)

Thermal transfer printer for material off the roll, including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)

Thermal transfer printer, incl. connecting cable, Windows® printer driver and operating instructions, software

Technical data		
USB/Bluetooth		
3		

Ordering data		
Type	Order No.	Pcs. / Pkt.
MINI FD BLUETOOTH	0830986	1

Accessories		
THERMOMARK CARD	5146464	1
THERMOMARK ROLL	5146477	1
THERMOMARK ROLL X1	5146723	1
THERMOMARK X1.2	5146231	1



Marking systems - MARKING system

The right printer for every application. We can provide a wide range of marking systems for your terminal, conductor, cable, and device marking requirements. TOPMARK LASER provides permanent and resistant marking in an industrial environment and is easy to use without special laser knowledge. The BLUEMARK CLED high-speed printer with innovative UV technology prints materials quickly and easily in UniCard format as well as aluminum markers.

The printers in the THERMOMARK series are renowned for their proven maintenance-free printing method and maximum user-friendliness. They can be used to print markers in a variety of materials and print formats, as well as labels and shrink sleeves, in outstanding quality.

Product range overview

Marking systems	26
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Overview of marking material - printers	48
Which printer prints which marking	



Phoenix Contact is an expert partner for control cabinet and system engineering. In this context, we aim to supplement our products with services, hardware, and software to make the planning and production of systems as efficient as possible.

MARKING system from Phoenix Contact represents an integrated marking system from planning right through to the finished printed label. In addition to the wide range of marking materials, the marking range also includes the CLIP PROJECT software as well as various printers.

The data required for marking is sent to the printers by the CLIP PROJECT planning software, which is supplied as standard. This controls the printers and facilitates the creation of marking data by allowing data to be imported directly from circuit diagrams.

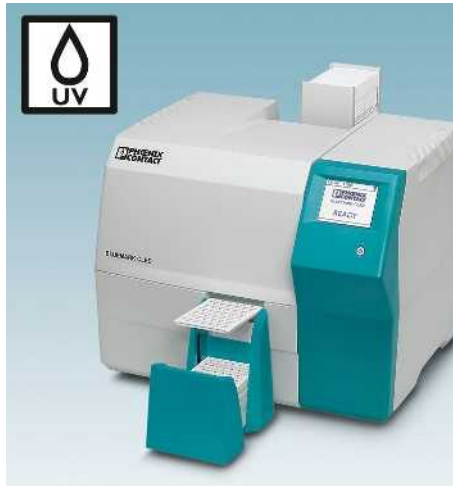
Phoenix Contact provides a variety of printing systems:

- TOPMARK LASER, laser marker for marking laser and UCT material
- BLUEMARK CLED, high-speed printer with UV technology for marking UniCard formats and aluminum markers
- THERMOMARK CARD, thermal transfer printer for marking UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for marking material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided marking and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER and P1 ENGRAVING UNIT to extend plotters for engraving

A comprehensive range of materials for marking terminal blocks, conductors, cables, and devices is available for each of the printing systems provided. As a result, each printing system represents a self-contained solution capable of performing all marking tasks in and around the control cabinet. To ensure that you benefit from consistently high levels of marking quality, all the materials offered are tailored to the devices concerned and undergo extensive testing.



The TOPMARK laser marking system provides you with the flexibility to implement the requirements of challenging industrial identification. With modern laser technology you can create permanent, durable markings with ease - preset parameters eliminate the need for special laser knowledge.



BLUEMARK CLED uses the latest UV technology for marking. This makes the markers instantly wipe-resistant and ready for immediate use. The fast printing technology enables 14,000 labels to be processed per hour. Thanks to the LED technology, the printer does not require a warm-up time, is environmentally friendly, and is also very quiet.



The new THERMOMARK CARD thermal transfer printer can be used to print marking materials supplied in card format. It provides you a really easy way to produce terminal, conductor, cable, and device markings of incredibly high quality. The low weight and compact design of the new printer mean that it can also be used as a portable solution wherever it is needed.



The THERMOMARK ROLL thermal transfer printer has been designed for printing material off the roll and continuous media. You can easily create high-quality printed labels, markers, and shrink sleeves. The compact printer is also suitable for mobile use. The THERMOMARK ROLL X1 is particularly suitable for marking in large quantities.



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves. Double-sided marking ensures optimum legibility on conductors and cables. The special construction of the guide elements ensures easy handling when inserting the sleeve.



Apart from label strips and UniCard materials, the CMS-P1-PLOTTER can also be used to label sheet materials. Its integrated pen station facilitates handling and helps prevent the pens from drying out. The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device.

Marking systems

TOPMARK LASER set, desktop laser marker including extraction unit and notebook



Direct laser marking



Integration in the Planning and Marking Software makes the TOPMARK LASER the fastest desktop laser marker in its class - and the easiest to use. You can now mark all materials without special knowledge of laser technology.

- Wide range of materials comprising stainless steel, aluminum, ABS, polyacrylics, and polycarbonate
- Preset optimized laser parameters are available for all material types
- Automatic material detection with the UCT cards enables fast and effective marking
- Permanent markings are created using engraving marking, annealing marking or carbonizing the material

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Marking method	
Laser system	
Laser class	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	
Power consumption	[W]
CW laser power (continuous wave)	[W]

Technical data		
Width	Length	Height
664	666	736

Description	Color
Laser marker and MARKING NOTEBOOK , incl. CLIP PROJECT professional software and installed drivers, user manual, sheet hopper, card hopper and 230 V extraction unit	
With German operating system and German keyboard	

Technical data		
Width	Length	Height
664	666	736
5 ... 40		
Direct laser marking		
Ytterbium fiber laser, pulsed, 1064 nm		
Laser class 1 according to EN 60825-1 classification		
10/100 Mbps Ethernet		
100 ... 240		
105		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
450		
20		

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER	0831831	1

Carriage , for accommodating TOPMARK LASER, extraction unit, and MARKING NOTEBOOK
Sheet hopper , for TOPMARK LASER
Magazine for the TOPMARK LASER , for accommodating UCT material automatically
Magazine for the TOPMARK LASER , for accommodating UCT material manually
Extraction unit: 230 V 120 V
Pre-filter pad , for replacement
HEPA filter , for replacement
Activated carbon filter , for replacement
USB stick , for software control of the TOPMARK LASER
MP-TEC fine particle filter , for replacement
Suction tube , for replacement, length: 2.5 m
Connecting cable , for replacement

Accessories		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER STATION	0831835	1
TOPMARK LASER-MAG SHEET	0831836	1
TOPMARK LASER-MAG UCT-A	0803141	1
TOPMARK LASER-MAG UCT-M	0803143	1
TOPMARK LASER EXTRACTION 230V	0803302	1
TOPMARK LASER EXTRACTION 120V	0803327	1
TOPMARK LASER PRE FILTER SET	0803303	1
TOPMARK LASER HEPA FILTER	0803305	1
TOPMARK LASER CARBON FILTER	0803306	1
TOPMARK LASER FD	0803307	1
TOPMARK LASER MP-TEC FILTER	0803308	1
TOPMARK LASER TUBE	0803309	1
TOPMARK LASER CLEANING NOZZLE	0803310	1



new

TOPMARK LASER set, desktop laser marker including extraction unit and notebook



Direct laser marking



The TOPMARK LASER marking system provides you with the flexibility to implement the requirements of challenging industrial identification.

- Includes the TOPMARK LASER laser marking system, for all materials in UniCard (UCT) card format as well as the laser sheets, with applied metals and plastic materials
- Includes an extraction unit 230 V, US version 120 V
- Includes a powerful notebook with pre-installed CLIP PROJECT configuration and marking software
- Comes in the relevant language versions according to the country-specific versions

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Marking method	
Laser system	
Laser class	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	
Power consumption	[W]
CW laser power (continuous wave)	[W]

Technical data		
Width	Length	Height
664	630	682
5 ... 40		
Direct laser marking		
Ytterbium fiber laser, pulsed, 1064 nm		
Laser class 1 according to EN 60825-1 classification		
-		
100 ... 240		
105		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		
450		
20		

Description	Color
Laser marker and MARKING NOTEBOOK , incl. CLIP PROJECT professional software and installed drivers, user manual, sheet hopper, card hopper and 230 V extraction unit	
with German operating system and Swiss keyboard	
with Russian operating system and Russian keyboard	
with Swedish operating system and Swedish keyboard	
with Danish operating system and Danish keyboard	
with Chinese operating system and US international keyboard	
with Polish operating system and US international keyboard	
with French operating system and French keyboard	
with Italian operating system and Italian keyboard	
with Spanish operating system and Spanish keyboard	
with Portuguese operating system and Portuguese keyboard	
with English operating system and Belgian keyboard	
with English operating system and US international keyboard	
with English operating system and US international keyboard	
with Hungarian operating system and Hungarian keyboard	

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER DE CH	0803285	1
TOPMARK LASER RU RU	0803286	1
TOPMARK LASER SE SE	0803287	1
TOPMARK LASER DK DK	0803288	1
TOPMARK LASER CN US	0803289	1
TOPMARK LASER PL US	0803290	1
TOPMARK LASER FR FR	0803291	1
TOPMARK LASER IT IT	0803292	1
TOPMARK LASER ES ES	0803293	1
TOPMARK LASER PT PT	0803295	1
TOPMARK LASER EN BE	0803296	1
TOPMARK LASER US	0803297	1
TOPMARK LASER EN	0803298	1
TOPMARK LASER HU HU	0803299	1

BLUEMARK CLED



MARKING system

The new BLUEMARK CLED makes marking standardized UniCard material for terminal blocks, conductors, and device marking as easy as printing on paper. The printer receives marking data directly from your CAE system via the CLIP PROJECT central planning and marking software.

Simple operation

- Order-specific printing, thanks to large exchangeable magazine for up to 40 marker sheets
- Printing can be rotated by 180° as required, thanks to automatic material detection
- The front feed enables individual sheets to be marked regardless of how the magazine is assembled



Easy operation

- Thanks to large color touch screen
- Direct entry of data and commands
- Clear symbols and plain text messages
- Ready to print as soon as device is switched on
- Language selection via touchscreen menu

CLED – compact UV LED printing technology

Printing fluid is exposed to UV light which is the basis of our quick-dry printing concept. This light is generated with high intensity using 24 LEDs on a surface of 1 cm².

- Excellent printing quality
- No drying time
- High wipe and abrasion resistance
- Excellent resistance to chemicals
- Environmentally friendly, as solvent-free system



UV LED technology

Dimensions

	[mm]
General data	
Temperature range	[°C]
Print method	
Volume	
Pressure capacity	
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	
Power consumption	[W]

Description

Color

Printer with solvent-free LED UV technology, including CLIP PROJECT advanced software, collection container for 20 sheets, CD with multilingual user manual, English/German user manual, driver and firmware, European and US power cable, USB cable

Set, consisting of: 1 x BLUEMARK CLED, Order No. 5147999, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

With German operating system and German keyboard

With English operating system and English keyboard

Accommodating box, in conjunction with the BLUEMARK CLED-MAG 40, for accommodating 90 UC or UCT sheets

Fluid cartridge, replacement, 20 ml printing fluid, black

Exchangeable magazine

For accommodating 20 UC or UCT sheets

For accommodating 40 UC or UCT sheets

Magazine for the BLUEMARK printer, for accommodating UM materials

Compartment

For accommodating 20 UC or UCT sheets

Transport case, with aluminum edges, for printer and accessories

Magazines for marking aluminum markers

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Printers



Printing set for cards



Accomodating box

ERC

ERC

Technical data		
Width	Length	Height
480	500	330

Technical data		
Width	Length	Height
480	500	330

Technical data		
Width	Length	Height
400	470	160

5 ... 35
 UV LED technology
 20 ml
 Approx. 14,000 markers/h (UC-TMF 4 with 2 characters/marker)
 10/100 Mbps Ethernet / USB 2.0
 100 ... 240 / 50 Hz ... 60 Hz
 16
 MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)
 74

5 ... 35
 UV LED technology
 20 ml
 Approx. 14,000 markers/h (UC-TMF 4 with 2 characters/marker)
 10/100 Mbps Ethernet
 100 ... 240 / 50 Hz ... 60 Hz
 16
 MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)
 74

-
 -
 -
 -
 -
 -
 -
 -

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED	5147999	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED SET	5147400	1
BLUEMARK CLED SET EN	5147401	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-BASE	5146669	1

Accessories		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-FLUID-CARTR.	5146662	1
BLUEMARK CLED-MAG 20	5146655	1
BLUEMARK CLED-MAG 40	5146668	1
BLUEMARK MAG UM-TM	0803335	1
BLUEMARK CLED-STACKER 20	5146656	1
BLUEMARK CLED CASE	5146725	1

Accessories		
Type	Order No.	Pcs. / Pkt.
BLUEMARK CLED-FLUID-CARTR.	5146662	1
BLUEMARK CLED-MAG 20	5146655	1
BLUEMARK CLED-MAG 40	5146668	1
BLUEMARK MAG UM-TM	0803335	1
BLUEMARK CLED-STACKER 20	5146656	1
BLUEMARK CLED CASE	5146725	1

Accessories		
Type	Order No.	Pcs. / Pkt.

See page 160

See page 160

Marking systems

THERMOMARK CARD, thermal transfer printer for sheet materials and cards



Thermal transfer for sheets and cards



- The THERMOMARK CARD can print markers supplied in card format for cable, device, and system marking applications
- For all UniCard (UCT) and UniSheet (US) materials
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking. Printing time for one UniCard: just 8 seconds
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.

CCC ENEC CB

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
253	320	189
5 ... 35	300 dpi	104
10/100 Mbps Ethernet / USB 2.0	100 ... 240 / 50 Hz ... 60 Hz	6
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

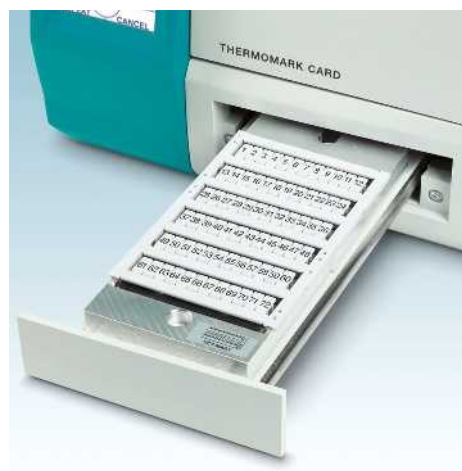
Description	Color
Thermal transfer printer for cards, incl. European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, DIN A5 printed English/German user manual, magazine for UCT-TM materials, magazine for US materials, one unit pack UCT-TM 6, one unit pack US-EMLP (85,6x54), one ink ribbon (50-meter sample roll)	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD	5146464	1

Transport case	
Ink ribbon, length: 300 m, width: 110 mm	black
Ink ribbon, specially for US-PML..., US-EMLF..., Length: 240 m, width: 110 mm	white

Accessories		
Type	Order No.	Pcs. / Pkt.
TL CASE	0800613	1
THERMOMARK-RIBBON 110-TC	0801371	1
TM-RIBBON 110-TC/TR WH	1014402	1

Magazine for THERMOMARK CARD



Thermal transfer for sheets and cards



- Robust magazines for UniCard marking material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Description
Magazine , for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)
Magazine , for THERMOMARK CARD ..., for accommodating: UCT-TMF ...
Magazine , for THERMOMARK CARD ..., for accommodating: UCT-WMS ...
Plastic magazine , for THERMOMARK CARD ..., for accommodating: UCT1-TMF...
Plastic magazine , for THERMOMARK CARD ..., for accommodating: UCT2-TM ...
Magazine , for THERMOMARK CARD ..., for accommodating: UCT3-TM ...
Magazine , for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10) for accommodating UCT-EM (12X3.3), UCT-EM (12X6) for accommodating UCT-EM (17X10) and (20X8)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7) for accommodating UCT-EM (10X5) for accommodating UCT-EM (21X8) and UCT EM (17X8)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (20 x 9) for accommodating UCT-EM (17 x 9) for accommodating UCT-EM (18 x 8)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X7,5) for accommodating UCT-EM (10 x 7), UCT-WMTB (29 x 8) for accommodating UCT-EM (17,5X9)
Magazine , for THERMOMARK CARD ... for accommodating UCT6M-TM ... for accommodating UCT6R-TM ...
Magazine , for THERMOMARK CARD ..., for accommodating: UCT-WMCO...(12 x 4)
for accommodating UCT-EMP ... for accommodating: UCT-WMTBA ...
Magazine for the THERMOMARK CARD printer, for accommodating: UCT sheets (UCT-WMCO...(18 x 4))

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG1	5146480	1
THERMOMARK CARD-UCT-MAG2	5146563	1
THERMOMARK CARD-UCT-MAG3	5146613	1
THERMOMARK CARD-UCT-MAG4	5146614	1
THERMOMARK CARD-UCT-MAG5	5146615	1
THERMOMARK CARD-UCT-MAG6	5146616	1
THERMOMARK CARD-UCT-MAG7	0801734	1
THERMOMARK CARD-UCT-MAG8	0801735	1
THERMOMARK CARD-UCT-MAG9	0801736	1
THERMOMARK CARD-UCT-MAG10	0801737	1
THERMOMARK CARD-UCT-MAG11	0801738	1
THERMOMARK CARD-UCT-MAG12	0830399	1
THERMOMARK CARD-UCT-MAG13	0830400	1
THERMOMARK CARD-UCT-MAG14	0830401	1
THERMOMARK CARD-UCT-MAG15	0830402	1
THERMOMARK CARD-UCT-MAG16	0830403	1
THERMOMARK CARD-UCT-MAG17	0830404	1
THERMOMARK CARD-UCT-MAG18	0830405	1
THERMOMARK CARD-UCT-MAG20	0830751	1
THERMOMARK CARD-UCT-MAG22	0830771	1
THERMOMARK CARD-UCT-MAG23	0830808	1
THERMOMARK CARD-UCT-MAG24	0830809	1
THERMOMARK CARD-UCT-MAG25	0802935	1
THERMOMARK CARD-UCT-MAG26	0802988	1
THERMOMARK CARD-UCT-MAG27	0802989	1
THERMOMARK CARD-UCT-MAG28	0803205	1

Magazine for THERMOMARK CARD



Thermal transfer for sheets and cards



- Robust magazine for UniSheet marking material
- The format automatically ensures printing with a high level of positional accuracy
- Even compatible with marking sheets that have already been started

Description
Magazine , for THERMOMARK CARD..., for accommodating all US-materials

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

Magazine for THERMOMARK CARD

new



Thermal transfer for sheets and cards



- Robust magazine for universal material
- For accommodating up to 4 double strips per magazine
- The format automatically ensures printing with a high level of positional accuracy
- Marking strips that have already been started can also be used

Description
Magazine , for THERMOMARK CARD ... for accommodating UM1-TM ..., UM5-TM...
Magazine for THERMOMARK CARD for accommodating UM1-TMF ...
Magazine for THERMOMARK CARD for accommodating UM1U-TM ...
for accommodating UM2-TM...
for accommodating UM3-TM...
for accommodating UM6M-TM...
for accommodating UM6R-TM...
for accommodating UM8-TM...
Magazine for THERMOMARK CARD for accommodating UM7-TM...

Ordering data		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG1	0831200	1
TMP-UM-MAG3	0831202	1
TMP-UM-MAG4	0831203	1
TMP-UM-MAG5	0803328	1
TMP-UM-MAG6	0803329	1
TMP-UM-MAG7	0803330	1
TMP-UM-MAG8	0803331	1
TMP-UM-MAG9	0803332	1
TMP-UM-MAG10	0803334	1

Marking systems

THERMOMARK ROLL, thermal transfer printer for material off the roll



Thermal transfer for rolls



- The THERMOMARK ROLL can print markers supplied on rolls in the context of terminal, conductor, cable, and device marking applications
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.

CCC ENEC CB

Technical data

Dimensions		Width	Length	Height
	[mm]	253	320	189
General data				
Temperature range	[°C]	5 ... 40		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Interfaces		10/100 Mbps Ethernet / USB 2.0		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	4		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Thermal transfer printer for material off the roll , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	THERMOMARK ROLL	5146477	1

Accessories

Cutter , can be retrofitted, for precise cutting of continuous media into required lengths		THERMOMARK ROLL-CUTTER	5146422	1
Cutter , can be retrofitted, for perforating continuous media		THERMOMARK ROLL-CUTTER/P	5146435	1
External media hub , for roll diameters of 150 mm to 400 mm		THERMOMARK ROLL-ERH	5146448	1
External media hub , for roll diameters of up to 500 mm		THERMOMARK-ERH 500	5146309	1
Ink ribbon , length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
	blue	THERMOMARK-RIBBON 110 BU	0829544	1
	green	THERMOMARK-RIBBON 110 GN	0829542	1
	red	THERMOMARK-RIBBON 110 RD	0829543	1
Ink ribbon , specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110-EML-HT	0800342	1
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMSU	0801358	1
	white	THERMOMARK-RIBBON 110-WMSU WH	0801359	1
	black	TM-RIBBON 110-EX	0803211	1
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	THERMOMARK-RIBBON 64-WMSU	0801360	1
	white	THERMOMARK-RIBBON 64-WMSU WH	0801361	1
Ink ribbon , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMTB HF	5148007	1
	white	TM-RIBBON 110-WMTB HF WH	0802990	1
Transport case	silver	TL CASE	0800613	1

THERMOMARK ROLL X1, thermal transfer printer for material off the roll



Thermal transfer for rolls



The THERMOMARK ROLL X1 printer is suitable for marking large quantities and provides the following features:

- Accommodates large rolls; inside the printer housing, the label rolls are protected against environmental influences such as dust and dirt
- For all labels and shrink sleeves
- Maintenance-free operation with tried-and-tested thermal transfer printing technology
- High-quality, fast marking
- Easy operating concept based on straightforward touchscreen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software
- Printing and dispensing labels on request or automatically after removing the label with the THERMOMARK ROLL X1 - DISPENSER

Cutting to length or perforating is easy

- Continuous media can be cut or perforated with a high degree of positioning accuracy (see figure below)



CCC ENEC CB

Technical data

Dimensions	[mm]	Width	Length	Height
		264	412	245
General data				
Temperature range	[°C]	5 ... 40		
Print resolution	[dpi]	300 dpi		
Max. print width	[mm]	104		
Max. printing length	[mm]	1000		
Interfaces		10/100 Mbps Ethernet / USB 2.0		
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz		
Weight	[kg]	5		
Operating systems		MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Thermal transfer printer for material off the roll , including European power cable, US power cable, USB cable, DVD with CLIP PROJECT ADVANCED, CD with multilingual user manual/driver/firmware, A5 printed English/German user manual, one roll of EML (20x8) labels containing 1000 labels, one ink ribbon (50 meters)	gray	THERMOMARK ROLL X1	5146723	1

Accessories

Cutter , can be retrofitted, for precise cutting of continuous media into required lengths		THERMOMARK ROLL X1 CUTTER	5146765	1
Perforation device , can be retrofitted, for perforating and cutting continuous media		THERMOMARK ROLL X1 CUTTER/P	5146766	1
Label dispenser , dispensing device for labels with a height of 10 mm or more		THERMOMARK ROLL X1 -DISPENSER	1014401	1
Ink ribbon , length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110	5145384	1
	blue	THERMOMARK-RIBBON 110 BU	0829544	1
	green	THERMOMARK-RIBBON 110 GN	0829542	1
	red	THERMOMARK-RIBBON 110 RD	0829543	1
Ink ribbon , specifically for high-temperature labels, EML-HT...	black	THERMOMARK-RIBBON 110-EML-HT	0800342	1
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMSU	0801358	1
	white	THERMOMARK-RIBBON 110-WMSU WH	0801359	1
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black	THERMOMARK-RIBBON 64-WMSU	0801360	1
	white	THERMOMARK-RIBBON 64-WMSU WH	0801361	1
Ink ribbon , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black	THERMOMARK-RIBBON 110-WMTB HF	5148007	1
Ink ribbon , length: 300 m, width: 110 mm, color: black	black	TM-RIBBON 110-EX	0803211	1
Transport case	silver	THERMOMARK ROLL X1-CASE	5146724	1

Marking systems

THERMOMARK printer sets



Thermal transfer for sheets and cards



Thermal transfer for rolls



Printing set, complete

MARKING BOX is the complete marking system for all terminal, conductor, cable, and device marking applications. It is available for different country-specific keyboards and operating systems.

- Includes the THERMOMARK CARD printer for all materials in the UniCard (UCT) and UniSheet (US) formats
- Includes the THERMOMARK ROLL printer for all labels and shrink sleeves supplied in rolls
- Includes a powerful notebook with pre-installed CLIP PROJECT configuration and marking software, as well as the printer drivers required to enable quick startup without any need for installation and setup work. Plug and print. Simply connect the devices via USB and you're ready to print
- The compact and robust THERMOMARK printers are optimally suited to mobile use on site

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.

Description
Set , consisting of: 1 x THERMOMARK CARD, Order No. 5146464 , 1 x THERMOMARK ROLL, Order No. 5146477 , 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
Printing set , consisting of: 1 x THERMOMARK CARD, Order No. 5146464 , 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
Printing set , consisting of: 1 x THERMOMARK ROLL, Order No. 5146477 , 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL
German operating system and keyboard
English operating system and US international keyboard
Versions
German operating system and Swiss keyboard
English operating system and Belgian keyboard
French operating system and keyboard
Spanish operating system and keyboard
Italian operating system and keyboard
Polish operating system and US international keyboard
Hungarian operating system and keyboard
Portuguese operating system and keyboard
Russian operating system and keyboard
Danish operating system and keyboard
Swedish operating system and keyboard

Ordering data

Type	Order No.	Pcs. / Pkt.
MARKING BOX	5147100	1
MARKING BOX EN	5147101	1
MARKING BOX DE CH	0801749	1
MARKING BOX EN BE	0801742	1
MARKING BOX FR FR	0801590	1
MARKING BOX ES ES	0801747	1
MARKING BOX IT IT	0801745	1
MARKING BOX PL US	0801744	1
MARKING BOX HU HU	0801750	1
MARKING BOX PT PT	0801748	1
MARKING BOX RU RU	0801739	1
MARKING BOX DK DK	0801741	1
MARKING BOX SE SE	0801740	1

Accessories

Printer accessories

phoenixcontact.net/products



Printing set for cards



Printing set for material provided on rolls

Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD SET	5147200	1			
THERMOMARK CARD SET EN	5147201	1			
			THERMOMARK ROLL SET	5147300	1
			THERMOMARK ROLL SET EN	5147301	1
THERMOMARK CARD SET DE CH	5147220	1	THERMOMARK ROLL SET DE CH	5147230	1
THERMOMARK CARD SET EN BE	5147214	1	THERMOMARK ROLL SET EN BE	5147225	1
THERMOMARK CARD SET FR FR	0801591	1	THERMOMARK ROLL SET FR FR	0801592	1
THERMOMARK CARD SET ES ES	5147218	1	THERMOMARK ROLL SET ES ES	5147228	1
THERMOMARK CARD SET IT IT	5147217	1	THERMOMARK ROLL SET IT IT	5147227	1
THERMOMARK CARD SET PL US	5147215	1	THERMOMARK ROLL SET PL US	5147226	1
THERMOMARK CARD SET HU HU	5147221	1	THERMOMARK ROLL SET HU HU	5147231	1
THERMOMARK CARD SET PT PT	5147219	1	THERMOMARK ROLL SET PT PT	5147229	1
THERMOMARK CARD SET RU RU	5147211	1	THERMOMARK ROLL SET RU RU	5147222	1
THERMOMARK CARD SET DK DK	5147213	1	THERMOMARK ROLL SET DK DK	5147224	1
THERMOMARK CARD SET SE SE	5147212	1	THERMOMARK ROLL SET SE SE	5147223	1
Accessories			Accessories		

Marking systems

THERMOMARK X1.2, thermal transfer printer for material off the roll



Thermal transfer for rolls

An important addition to the range is the THERMOMARK X1.2, a top-of-the-line thermal transfer printer with the following key features:

- High print speed
- Print resolution of 300 dpi
- This printer is suitable for marking large quantities and is capable of processing all types of material supplied on rolls
- The easy-to-use centering function for the printing material makes it possible to label continuous media such as shrink sleeves
- High-quality resin-based ink ribbons ensure a form of marking that is resistant to mechanical and chemical effects
- Continuous media can be cut and perforated with a high degree of positional accuracy



ERC

Dimensions		
		[mm]
General data		
Temperature range		[°C]
Print resolution		[dpi]
Max. print width		[mm]
Max. printing length		[mm]
Interfaces		
Power supply		[V]
Weight		[kg]
Operating systems		

Technical data		
Width	Length	Height
242	446	274
Temperature range	10 ... 35	
Print resolution	300 dpi	
Max. print width	105	
Max. printing length	2000	
Interfaces	Serial (RS-232) / USB 2.0 / 10/100 Mbps Ethernet	
Power supply	100 ... 240 / 50 Hz ... 60 Hz	
Weight	10	
Operating systems	MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)	

Description	Color
Thermal transfer printer, incl. connecting cable, Windows® printer driver and operating instructions, software	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK X1.2	5146231	1

Starter set, complete for THERMOMARK X1.2 consists of: planning and marking software, THERMOMARK X1.2 thermal transfer printer, ink ribbon, roll of labels

Cutter, for THERMOMARK X1...

Perforator

Transport case, with aluminum edges, for printer and accessories

External media hub, for roll diameters of 150 mm to 400 mm

External media hub, for roll diameters of up to 500 mm

Ink ribbon, length: 300 m, width: 110 mm

Ink ribbon, specifically for high-temperature labels, EML-HT...

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm

Ink ribbon, specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm

Ink ribbon, length: 300 m, width: 110 mm, color: black

Ink ribbon, specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK X1.2-KIT	5146341	1
THERMOMARK X1-CUTTER	5145290	1
THERMOMARK X1-CUTTER/P	5146244	1
THERMOMARK X1-CASE	5145300	1
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110-EML-HT	0800342	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1
TM-RIBBON 110-EX	0803211	1
THERMOMARK-RIBBON 110-WMTB HF	5148007	1

THERMOMARK W2, thermal transfer printer for continuous shrink sleeve



Thermal transfer for rolls



- The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves
- Double-sided printing ensures optimum marking legibility
 - The guide elements ensure easy handling when inserting the sleeve
 - The user-friendly interface of the CLIP PROJECT software enables you to enter custom specifications for the marking and marker length
 - Black and white ink ribbons are available to facilitate color marking
 - The printed markers can be easily and quickly separated along the perforations

Dimensions	
	[mm]
General data	
Temperature range	[°C]
Print resolution	[dpi]
Max. print width	[mm]
Max. printing length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

ERIC

Technical data		
Width	Length	Height
248	554	405
10 ... 35 300 dpi 105.6 1000 Serial (RS-232) / USB 2.0 / 10/100 Mbps Ethernet 100 ... 240 / 50 Hz ... 60 Hz 21 MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Description	Color
Thermal transfer printer , specially for shrink sleeve marking on both sides, including perforation knife, connecting cable, Windows® printer driver, operating instructions, CLIP PROJECT advanced planning and marking software	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK W2	5146147	1

External media hub , for roll diameters of 150 mm to 400 mm	
External media hub , for roll diameters of up to 500 mm	
External media hub , for roll diameters of up to 500 mm	
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 110 mm	black white
Ink ribbon , specifically for WMS... shrink sleeves, length: 300 m, width: 64 mm	black white

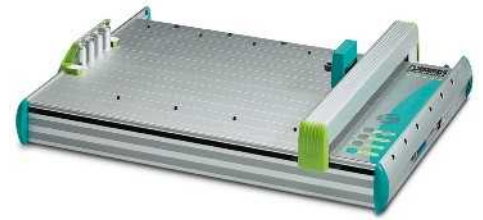
Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110-WMSU	0801358	1
THERMOMARK-RIBBON 110-WMSU WH	0801359	1
THERMOMARK-RIBBON 64-WMSU	0801360	1
THERMOMARK-RIBBON 64-WMSU WH	0801361	1



CMS-P1-PLOTTER



Plotter



- During long periods of non-use, the plotter pens are stored safely in a pen station
- The pens are removed and deposited automatically
- The pen station of the CMS-P1-PLOTTER prevents the plotter pens from drying out
- An automatic marking preparation function ensures optimum marking results right from the first character
- The plotter is controlled with the CLIP PROJECT software
- The plotter can be connected to the computer quickly and easily via the Centronics or USB interface
- Easily operated with just a few buttons

Dimensions	
	[mm]
General data	
Lettering field size	[mm]
Max. material height	[mm]
Max. plotting speed	[m/s]
Interfaces	
Input voltage / frequency	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
440	660	125
440 x 296 mm		
10.5		
0.4		
Parallel (Centronics) / USB 2.0		
100 ... 240 / 50 Hz ... 60 Hz		
8		
MS Windows XP SP3, MS Windows Vista, MS Windows 7 (32/64-bit), MS Windows 8 (32/64-bit)		

Description	Color
Marking plotter , incl. power supply unit, connecting cable (Centronics and USB), CMS-PEN 0,25 pen, manual, planning and marking software, CLIP PROJECT	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER	5144615	1

Starter set , consisting of: - CLIP PROJECT, - CMS-P1-PLOTTER, - Magazines for UC-TM, UC-TMF, and UC-EMP, plus marking material - Ink and cleaning set
Transport case for CMS-P1-PLOTTER , rounded profile case with aluminum frame for a complete plotter system
Covering hood for CMS-P1-PLOTTER , flexible hood for protecting against contamination
Set of seals for the pen station , 4 replacement seals for the pen station of the CMS-P1-PLOTTER and 10 marking preparation plates, incl. assembly tool
Pen plates , for the pen station of the CMS-P1-PLOTTER
Magazines and pens

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER-KIT	5144628	1
CMS-P1-PLOTTER-CASE	5144631	1
CMS-P1-PLOTTER-COVER	5144806	1
CMS-P1-PENDEPOT	5144835	1
CMS-P1-PREPLATES	5145135	1
See page 44		



CMS-P1-PLOTTER engraving unit



Engraving



- The P1 ENGRAVING UNIT is the ideal marking solution for device and component marking applications that involve high levels of mechanical and chemical stress
- The CMS-P1-PLOTTER can be converted into an engraving unit quickly and easily by swapping the plotter head for the engraving device
- To allow different line thicknesses, engraving chisels with diameters ranging from 0.2 ... 1.0 mm are available as accessories
- These are supplemented by a comprehensive product range of pre-assembled engraving materials; see page 284
- These materials remain in position and do not slip when used with the CMS-P1-M/GPE ENGRAVING plotter magazine

Dimensions	
	[mm]
General data	
Power supply	[V]
Weight	[kg]
Speed range	[RPM]
Collet chuck	[mm]
Power consumption	[W]

Technical data		
Width	Length	Height
250	350	

Description
Engraving unit , for the CMS-P1-PLOTTER, incl. operating instructions (English/German), data CD and engraving chisel

Ordering data		
Type	Order No.	Pcs. / Pkt.
P1 ENGRAVING UNIT	5145546	1

Engraving chisel, with a point angle of 15°	
Point diameter 0.2 mm	
Point diameter 0.3 mm	
Point diameter 0.4 mm	
Point diameter 0.5 mm	
Point diameter 0.7 mm	
Point diameter 1.0 mm	
Engraving chisel set , chisel with a point angle of 15°, point diameter: 0.2 mm, 0.3 mm, 0.4 mm, 0.5 mm, 0.7 mm, 1.0 mm	

Accessories		
P1 GRAVER 0.2	5145478	1
P1 GRAVER 0.3	5145481	1
P1 GRAVER 0.4	5145494	1
P1 GRAVER 0.5	5145504	1
P1 GRAVER 0.7	5145517	1
P1 GRAVER 1.0	5145520	1

Vacuum cleaner bag , 5 spare bags for replacement
Magazine for the CMS-P1-PLOTTER , for accommodating EMLP... and GPE... materials for engraving
- 1 GPE label sheet

P1 GRAVER SET	5145533	1
P1 ENGRAVING VC BAG	5145559	1
CMS-P1-M/GPE ENGRAVING	5145711	1



Magazines for CMS-P1-PLOTTER



- Robust plastic magazines for marking all commercially available marking materials
- Even compatible with marking sheets that have already been started
- Option of partial marking
- In terms of its size, the magazine utilizes plotter capacity to the full
- We offer a variety of different magazines for marking materials
- If you cannot find the right magazine for your materials, please get in touch

Description	Color
Magazine, for CMS-P1-PLOTTER, for accommodating: UC-TM ..., UC-TMN ..., UC3-TM ..., UC-WMC 1,9..., UC-WMC 3,1..., UC-WMTBA ..., UC-EM (17,5x9), UC-EM (18x8), UC-EM (21x8)	
For accommodating UC-WMC 4,4...	gray
For accommodating UC-WMC 5,6..., UC-WMC 7,5...	gray
For accommodating UC-TMF..., UC1-TMF..., UC2F-TM..., UC-WMT...	gray
For accommodating UC1-TM..., UC1U-TM..., UC2-TM...	gray
For accommodating: UC-EM..., UC-EMP..., UC-EMLP..., UC-EMSP..., and UC-WMTB...	gray
For accommodating: UC-WMCO ...	gray
Plastic magazines, for CMS-P1-PLOTTER, for accommodating:	
- 22 zack marker strips	
- 26 flat zack marker strips or ZBN strips	
- 2 zack marker sheets	
- 3 flat zack marker sheets	
- 22 contactor marker zack marker strips	
- 4 to 6 PABA marker bars	
- 30 marker pins ZB strips	
- 1 GPE label sheet	
- 20 strips LBHZ conductor marking	
- 1 GPE label sheet	
Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4	

Ordering data		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 1	5146079	1
P1 UC-MAG 2	5146082	1
P1 UC-MAG 3	5146095	1
P1 UC-MAG 4	5146105	1
P1 UC-MAG 5	5146118	1
P1 UC-MAG 6	5146121	1
P1 UC-MAG 7	5146568	1
CMS-P1-M/ZB	5144699	1
CMS-P1-M/ZBF	5144709	1
CMS-P1-M/ZBM	5144660	1
CMS-P1-M/ZBFM	5144686	1
CMS-P1-M/SS-ZB	5144712	1
CMS-P1-M/PAB	5144741	1
CMS-P1-M/BN-ZB	5144725	1
CMS-P1-M/GPE	5144754	1
CMS-P1-M/LBHZ	5144738	1
CMS-P1-M/GPE ENGRAVING	5145711	1
CMS-P1-PAD	5144819	1

Adapter plate for WMU magazines, for using the universal CMS-WMU replaceable frame with the magazine inserts of the CMS-MCP 3 plotter
Replacement fixation pad for CMS-P1-M/ZBFM, 9 self-adhesive fixation pads, sufficient for 3 magazines
Replacement fixation pad for CMS-P1-M/GPE and CMS-P1-M/GPE ENGRAVING, one fixation pad, sufficient for one magazine
Replacement fixation pad for CMS-P1-PAD, 1 fixation pad in DIN A4 format

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-WMU-ADAPTER	5144822	1
CMS-P1-M/ZBFM-PAD	5144848	1
CMS-P1-M/GPE-PAD	5144880	1
CMS-P1-PAD/SPARE	5144893	1

Plotter pens



Plotter



- Plotter pens for high-quality product marking
- Wipe-resistant with a perfect appearance
- Totally integrated product range consisting of plotter pens, ink, and cleaning fluid for the CMS-P1-PLOTTER plotter
- Both reusable and disposable plotter pens are available

Description	Color
Disposable plotter pen , non-refillable plotter pen, with pen station, completely filled with 1 ml CMS-INK-TR-C 5 ink, for high requirements	
Line thickness 0.25 mm	black
Line thickness 0.35 mm	black
Pens , incl. adapters, ink tank and pen station, for different line thicknesses, without ink	
Line thickness 0.25 mm	
Line thickness 0.35 mm	
Line thickness 0.50 mm	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-DISPOSABLE-PEN 0,25 TR	5146685	1
CMS-DISPOSABLE-PEN 0,35 TR	5146686	1
CMS-PEN 0,25	5067815	1
CMS-PEN 0,35	5067828	1
CMS-PEN 0,50	5067831	1

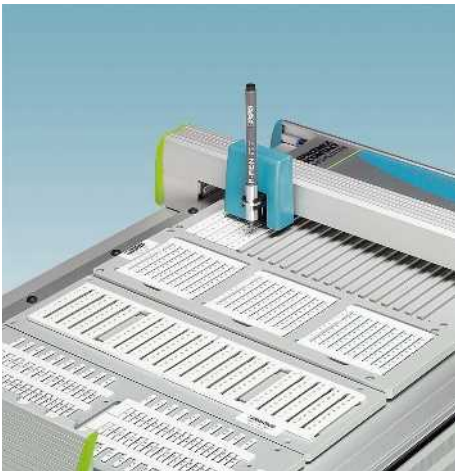
Cleaning set for pens , consisting of: 1 cleaning cup, 2 cartridges of 10 ml cleaning liquid each and 2 spare sealing caps for the pen station		
Cleaning cartridges with spare sealing caps , 2 cartridges, each with 10 ml cleaning liquid and 2 caps		
Ink cartridge , for CMS-PEN...		

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-R-SET-TR	5146751	1
CMS-R-FLUID-TR-C2	5146752	1
CMS-INK-TR-C5	5146684	1



Marking systems

Marker pen for plotter and manual marking



- High-quality marking of unprinted marking materials, can be performed manually or with the CMS-P1-PLOTTER
- Used in conjunction with the P-PEN ADAPTER when combined with plotter
- Disposable pen
- No handling of cleaning fluid required



Description		Color	Ordering data		
Disposable pen, non-refillable, for manual marking, can be also used for plotter marking when combined with the P-PEN ADAPTER		black	Type	Order No.	Pcs. / Pkt.
			P-PEN	0815211	10
Accessories					
Aluminum adapter, to fix the P-PEN for plotter marking			P-PEN ADAPTER	0815224	1

Marker pen for manual marking



- High-quality marking of unprinted marking materials is also possible without the use of marking devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



Description		Color	Ordering data		
Marker pen, refillable, for manual marking, 0.35 mm line thickness, can be refilled with CMS-INK-TR-C 5, delivered without ink		black	Type	Order No.	Pcs. / Pkt.
			X-PEN 0,35	0811228	1
Accessories					
Ink cartridge, for CMS-PEN...		black	CMS-INK-TR-C5	5146684	1

Marker pen for manual marking

- High-quality marking of unprinted marking materials is also possible without the use of marking devices
- We provide three versions for manual marking
- Refillable pen: X-PEN
- Disposable pen: B-STIFT
- Disposable pen: P-PEN, can also be used for plotter marking when combined with an adapter



		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Marker pen, not refillable, for manual marking, line thickness 0.5 mm	black	B-STIFT	1051993	10

Marking and labeling - MARKING system

Marking systems

Overview
Marking system -
marking material -
matrix



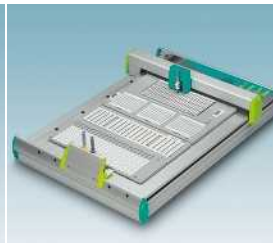
Marking system	TOPMARK LASER	BLUEMARK CLED	THERMOMARK CARD	THERMOMARK ROLL
----------------	---------------	---------------	-----------------	-----------------

Terminal marking

UC...-TM...		Page 56		
UCT...-TM...	Page 76	Page 76	Page 76	
UM...-TM...		Page 118	Page 118	
US-TM...			Page 80	
US-TMF...			Page 81	
US-TML...			Page 82	
ZB...				
ZBF...				
TMT...				Page 84
TML...				Page 88
SK...				Page 95

Conductor/cable marking

LS-WMTB...	Page 156			
WMTB-AL...		Page 160		
AI-WM...		Page 169		
UC-WMT...		Page 170		
UC-WMTB(A)...		Page 172		
UC-WMC(O)...		Page 162		
UCT-WMT...	Page 174	Page 174	Page 174	
UCT-WMTB(A)...	Page 178	Page 178	Page 178	
UCT-WMCO...	Page 177	Page 177	Page 177	
UCT-WMS...	Page 176	Page 176	Page 176	
US-WMT...			Page 180	
US-WMTB...			Page 182	
US-WML...			Page 183	
WMT...				Page 196
WMTB...(HF)				Page 197
WMS... (pre-assembled)				Page 189
WMS... (continuous shrink sleeve)				Page 192
WML.../WML HF... /WML-FLAG...				Page 185
EMT...				Page 194
WMTW...				Page 195



THERMOMARK ROLL X1

THERMOMARK X1.2

THERMOMARK W2

CMS-P1-PLOTTER

P1 ENGRAVING UNIT

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				Page 62
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Page 192	Page 192	Page 192		
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Marking and labeling - MARKING system

Marking systems

Overview

Marking system - marking material matrix



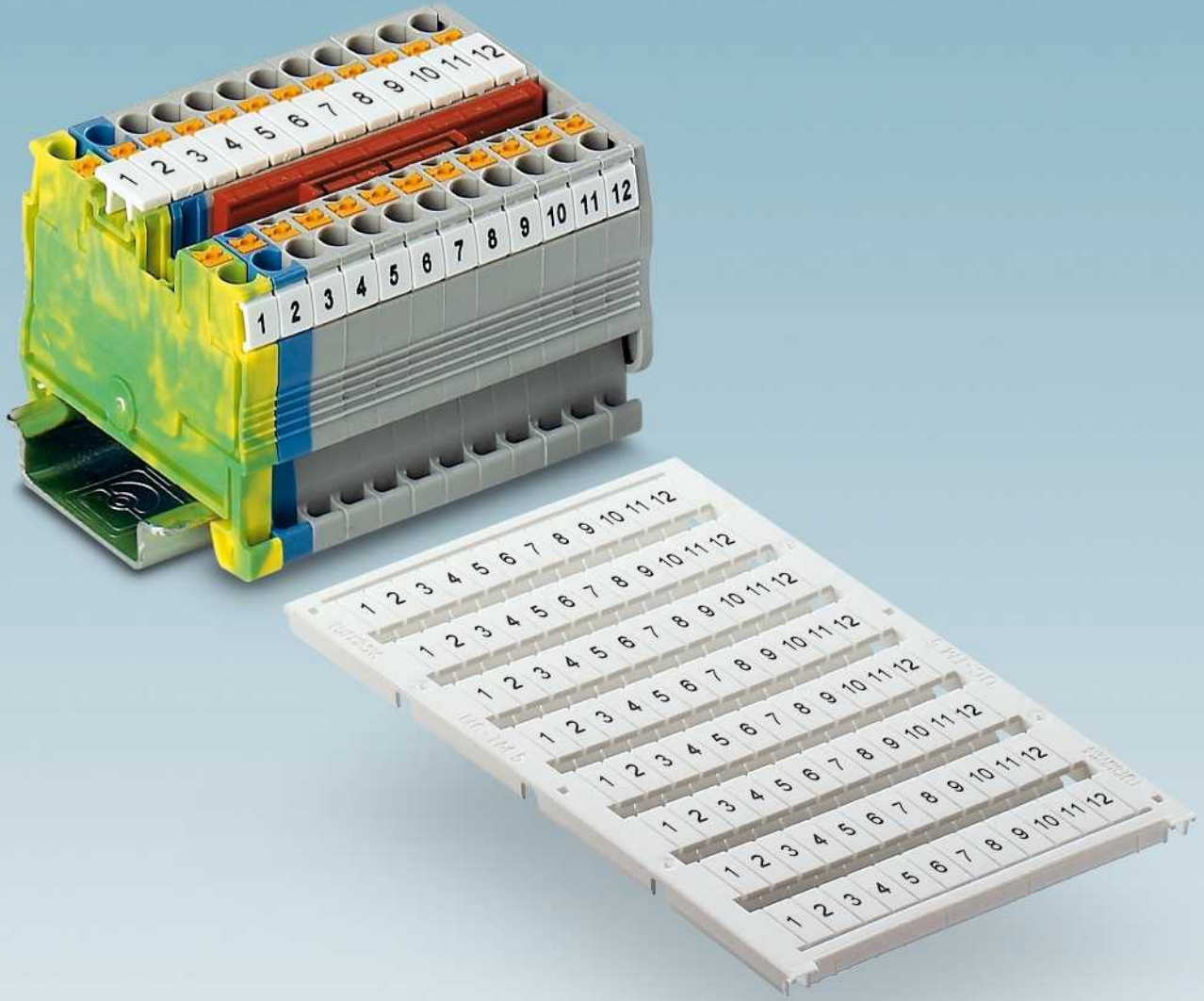
Marking system	TOPMARK LASER	BLUEMARK CLED	THERMOMARK CARD	THERMOMARK ROLL
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Device marking

LS-EM...	Page 226			
EM...AL...		Page 238		
UC-EM...		Page 245		
UC-EMP...		Page 243		
UC-EMLP...(EX)		Page 240		
UC-EMSP...		Page 242		
UCT-EM(P)...	Page 248	Page 248	Page 248	
US-EMP...			Page 257	
US-EMLP...(HA)			Page 254	
US-EMLSP...			Page 260	
US-EMSP...			Page 259	
US-EML...			Page 261	
US-EMLF...			Page 354	
EMT...				Page 280
EML...(EX)				Page 264
EMLP...				Page 269
EMLF...				Page 272
EMLC...				Page 273
EMLS...				Page 278
EML-HA...				Page 274
EML-HT...				Page 275
EML-ESD...				Page 276
EML-RM...				Page 277
GPE...				
BMK...				
BMKL...				

System marking

US-PML-W...			Page 320	
US-PML-P...			Page 326	
US-PML-M...			Page 334	
US-PML-GHS...			Page 348	
US-EMLF...			Page 354	
PML-W....				Page 321
PML-P..				Page 327
PML-M...				Page 335
PML-GHS...				Page 349
PML-T...				Page 342
PMM...				Page 355



Terminal marking - MARKING system

Large-surface and clear marking of terminal strips is essential for quick and error-free wiring of terminal strips. This is also true for the maintenance and startup of control cabinets and systems.

Terminal markers from Phoenix Contact are optimally adapted to the terminals and are available marked or unmarked in card, roll or sheet format.

Product range overview

Terminal marking 54

UniCard UC-TM... terminal marking

For tall marker grooves	56
For flat marker grooves	58

ZB... zack marker strip terminal marking

For tall marker grooves	62
For flat marker grooves	70

UniCard UCT-TM... terminal marking

For tall marker grooves	76
For flat marker grooves	78

UniSheet US-TM... terminal marking

For universal marker grooves	80
For flat marker grooves	81

TMT... terminal marking supplied in rolls

Marker strips for tall and flat marker grooves	84
--	----

TML... terminal marking supplied in rolls

Self-adhesive markers for terminal blocks without marker grooves	88
--	----

SK... terminal marking supplied as card material

Self-adhesive markers for terminal blocks without marker grooves	92
--	----

Group marker labels and warning labels 96

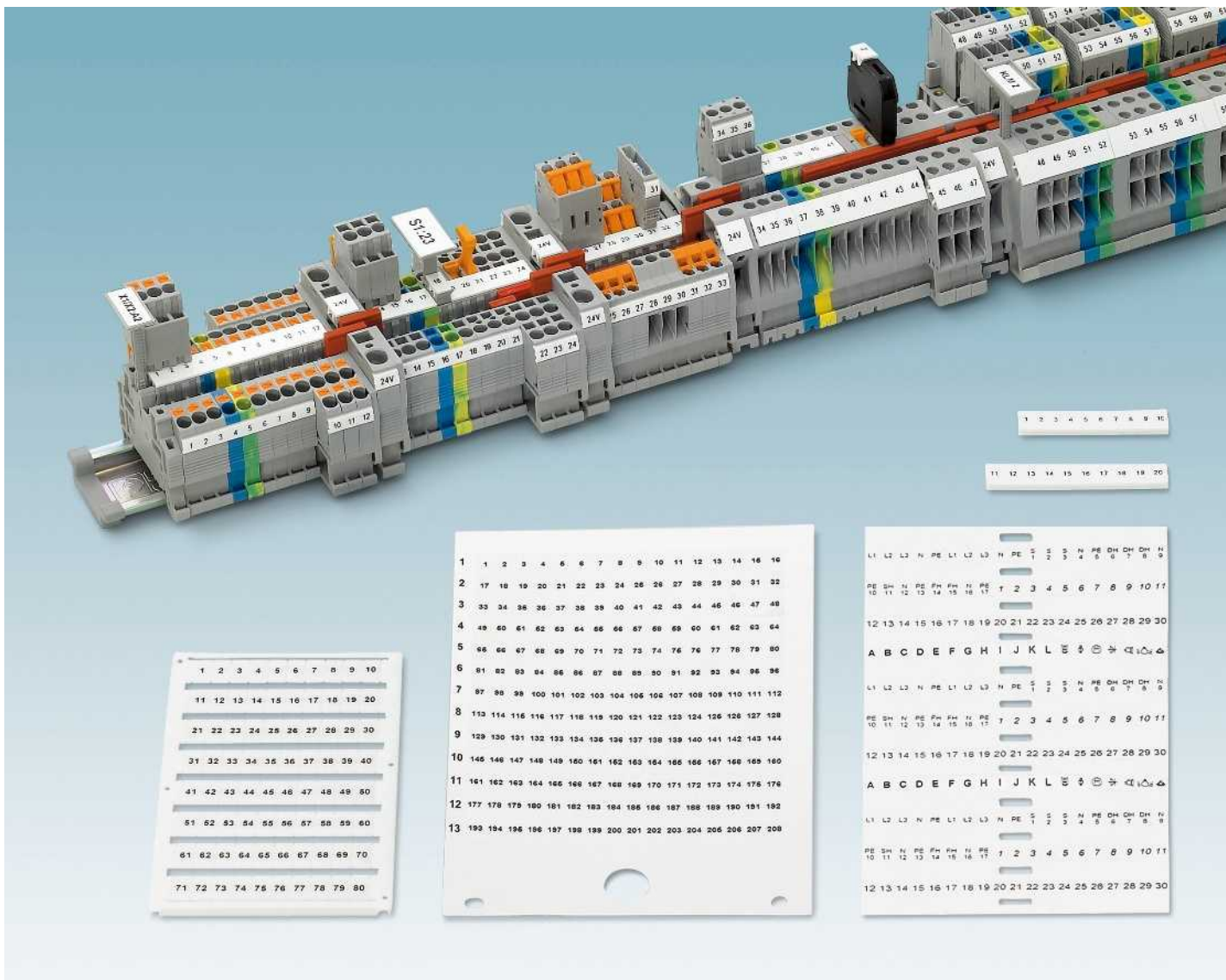
Overview of terminal marking for Phoenix Contact 100

The right marking solution for every terminal

Terminal marking for terminal blocks from other manufacturers 106

Overview of terminal marking for other manufacturers 126

Phoenix Contact provides the right marking solution for every terminal



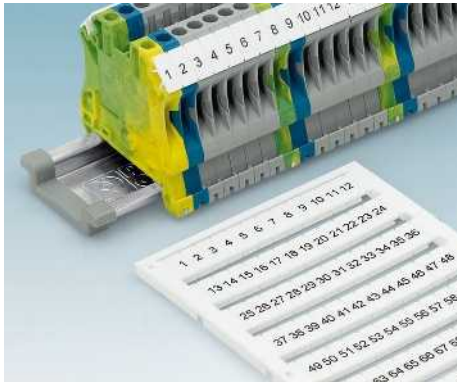
Those involved in control cabinet and system engineering must ensure meaningful marking of electrical connecting elements and control cabinet components. As with comprehensive documentation, precise marking of all terminal points makes it easier to set up and maintain the systems concerned. EN 60204-1/VDE 0113 Part 1 stipulates requirements concerning consistent system marking and, therefore, for ensuring that it matches the technical documentation. Various marking materials are available for marking Phoenix Contact terminal blocks. The marking strips can be easily separated by hand, and their special geometry ensures that the marking remains in place even in the event of impact and vibration in machines and vehicles.

The terminal markers are available in strips or sheets and with or without marking in accordance with customer requirements. Depending on the version, unmarked terminal markers can be marked using the various printing systems available from Phoenix Contact.

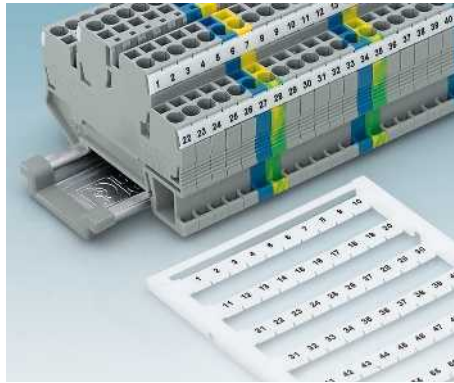
- Markers in UniCard format can be quickly and reliably marked using the new BLUEMARK CLED printer
- Markers in UniSheet format can be quickly and reliably marked using the new THERMOMARK CARD printer
- Material off the roll has been specially developed for marking using thermal transfer printers, e.g., from the new THERMOMARK LINE series from Phoenix Contact
- Zack marker strips are ideal for marking with the plotter, but can also be marked directly by hand.

All marking systems are characterized by their high resolution and excellent wipe resistance.

Various marking labels are available for marking terminal block groups in addition to the marking of the actual terminal points. These are snapped into the marking grooves of terminal blocks. Details of group marking products that can be fixed to end brackets can be found in the chapter titled Mounting material starting on page 483.



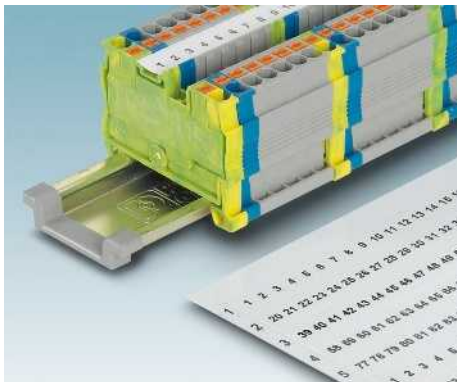
Markers are available in the UniCard and UniSheet formats for the marking of terminal blocks with a tall marker groove. They can be supplied unprinted or printed according to customer requirements.



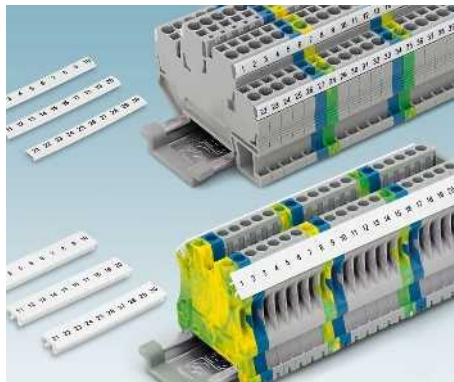
Markers are available in the UniCard and UniSheet formats for terminal blocks, modules, and connectors with a flat marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



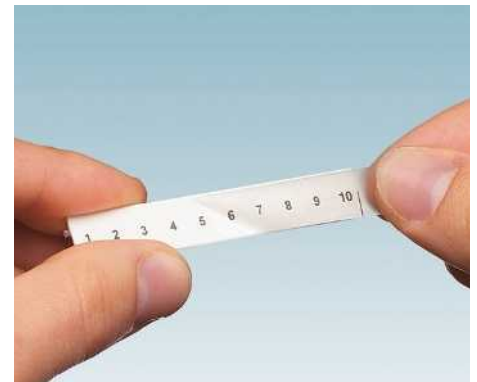
Miniature terminal blocks/transformer terminal blocks have neither a flat nor a tall marker groove. Special markers are available in UniCard format for the purpose of marking such terminal blocks.



The universal marker groove can be marked with markers in UniSheet format. These are available unprinted or printed in accordance with customer requirements.



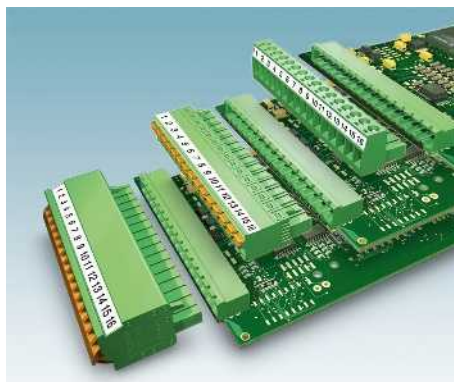
10-section zack marker strips are available in tall and flat versions. They are used to mark terminal blocks, modules or connectors and can be supplied unprinted or printed.



Unmarked zack marker strips can accommodate printed marker strips. Once printed, the self-adhesive strip is simply stuck onto the zack marker strip.



The marker strips can be used in both tall and flat marker marker grooves. They can be easily separated by hand since they are pre-perforated for the pitch.



Self-adhesive marker strips can be applied to all PCB terminal blocks and COMBICON connectors. They can be supplied printed on cards or unprinted on a roll.

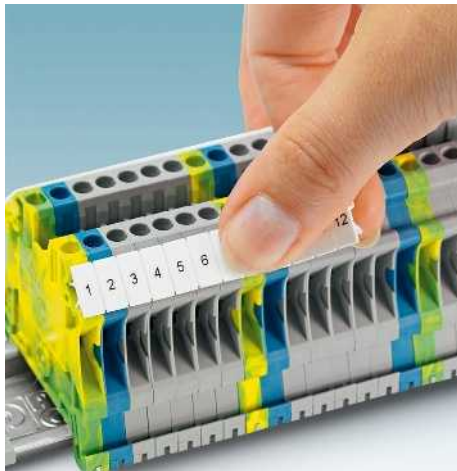


Markers are available in both UniCard and UniSheet formats for marking modular terminal blocks from other manufacturers.

Terminal marking

UniCard terminal marking for tall marker groove

Can be marked using:



UV LED technology



Plotter

PRINTED
FOR YOU



Markers for terminal block widths up to 8.2 mm

- The UC-TM ... UniCard marking range includes markers for products with a tall marker groove
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
-------------	-------

UniCard, for marking terminal blocks with a marker groove, 120-section, 15 individual labels per strip, for a terminal block width of 4.2 mm,

Ordering data

white	UC-TM 4	0818111	10
red	UC-TM 4 RD	0818250	10
orange	UC-TM 4 OG	0818221	10
yellow	UC-TM 4 YE	0818234	10
violet	UC-TM 4 VT	0819084	10
blue	UC-TM 4 BU	0818247	10
green	UC-TM 4 GN	0818263	10

Type	Order No.	Pcs. / Pkt.
------	-----------	-------------

UniCard, for marking terminal blocks with a marker groove, 96-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white	UC-TM 5	0818108	10
red	UC-TM 5 RD	0818302	10
orange	UC-TM 5 OG	0818276	10
yellow	UC-TM 5 YE	0818289	10
violet	UC-TM 5 VT	0819107	10
blue	UC-TM 5 BU	0818292	10
green	UC-TM 5 GN	0818315	10

UniCard, for marking terminal blocks with a marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white	UC-TM 6	0818085	10
red	UC-TM 6 RD	0818357	10
orange	UC-TM 6 OG	0818328	10
yellow	UC-TM 6 YE	0818331	10
violet	UC-TM 6 VT	0819110	10
blue	UC-TM 6 BU	0818344	10
green	UC-TM 6 GN	0818360	10

UniCard, for marking terminal blocks with a marker groove, 56-section, 7 individual labels per strip, for a terminal block width of 8.2 mm

white	UC-TM 8	0818072	10
red	UC-TM 8 RD	0818409	10
orange	UC-TM 8 OG	0818373	10
yellow	UC-TM 8 YE	0818386	10
violet	UC-TM 8 VT	0819123	10
blue	UC-TM 8 BU	0818399	10
green	UC-TM 8 GN	0818412	10

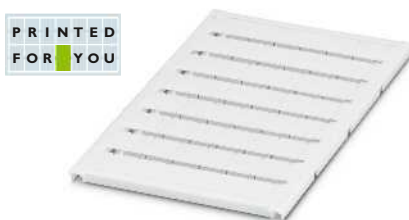


Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 1	5146079	1
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UniCard terminal marking for tall marker groove



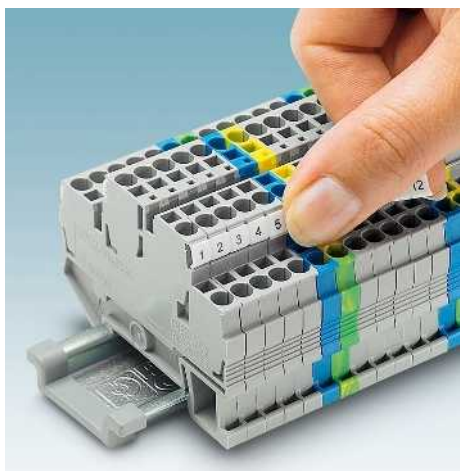
Markers for terminal block widths up to 16 mm

General data		Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for marking terminal blocks with a marker groove, 48-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UC-TM 10	0818069	10
	red	UC-TM 10 RD	0818454	10
	orange	UC-TM 10 OG	0818425	10
	yellow	UC-TM 10 YE	0818438	10
	violet	UC-TM 10 VT	0815936	10
	blue	UC-TM 10 BU	0818441	10
	green	UC-TM 10 GN	0818467	10
UniCard, for marking terminal blocks with a marker groove, 40-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UC-TM 12	0819194	10
	red	UC-TM 12 RD	0817701	10
	orange	UC-TM 12 OG	0817691	10
	yellow	UC-TM 12 YE	0819204	10
	violet	UC-TM 12 VT	0822660	10
	blue	UC-TM 12 BU	0817785	10
	green	UC-TM 12 GN	0817808	10
UniCard, for marking terminal blocks with a marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	white	UC-TM 16	0819217	10
	red	UC-TM 16 RD	0817798	10
	orange	UC-TM 16 OG	0817772	10
	yellow	UC-TM 16 YE	0819220	10
	violet	UC-TM 16 VT	0822673	10
	blue	UC-TM 16 BU	0817769	10
	green	UC-TM 16 GN	0817756	10
		Accessories		
Magazine, for CMS-P1-PLOTTER		P1 UC-MAG 1	5146079	1

Terminal marking

UniCard terminal marking for flat marker groove

Can be marked using:



UV LED technology



Plotter

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FOR YOU



Markers for terminal block widths up to 8.2 mm

- The UC-TMF ... UniCard marking range includes markers for products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

General data

Can be marked using
Material
Inflammability class according to UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
-------------	-------

UniCard , for marking terminal blocks with a flat marker groove, 120-section, 15 individual labels per strip, for a terminal block width of 4.2 mm	white	UC-TMF 4	0818166	10
	red	UC-TMF 4 RD	0818506	10
	orange	UC-TMF 4 OG	0818470	10
	yellow	UC-TMF 4 YE	0818483	10
	violet	UC-TMF 4 VT	0815897	10
	blue	UC-TMF 4 BU	0818496	10
	green	UC-TMF 4 GN	0818519	10

UniCard , for marking terminal blocks with a flat marker groove, 96-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white	UC-TMF 5	0818153	10
	red	UC-TMF 5 RD	0818551	10
	orange	UC-TMF 5 OG	0818522	10
	yellow	UC-TMF 5 YE	0818535	10
	violet	UC-TMF 5 VT	0815907	10
	blue	UC-TMF 5 BU	0818548	10
	green	UC-TMF 5 GN	0818564	10

UniCard , for marking terminal blocks with a flat marker groove, 80-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white	UC-TMF 6	0818140	10
	red	UC-TMF 6 RD	0818603	10
	orange	UC-TMF 6 OG	0818577	10
	yellow	UC-TMF 6 YE	0818580	10
	violet	UC-TMF 6 VT	0815910	10
	blue	UC-TMF 6 BU	0818593	10
	green	UC-TMF 6 GN	0818616	10

UniCard , for marking terminal blocks with a flat marker groove, 64-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white	UC-TMF 8	0818137	10
	red	UC-TMF 8 RD	0818658	10
	orange	UC-TMF 8 OG	0818629	10
	yellow	UC-TMF 8 YE	0818632	10
	violet	UC-TMF 8 VT	0815923	10
	blue	UC-TMF 8 BU	0818645	10
	green	UC-TMF 8 GN	0818661	10

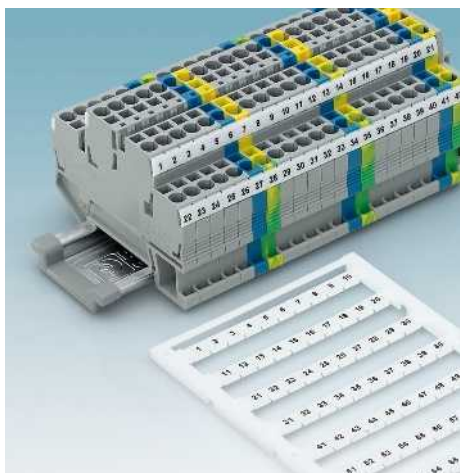
Ordering data

Type	Order No.	Pcs. / Pkt.
UC-TMF 4	0818166	10
UC-TMF 4 RD	0818506	10
UC-TMF 4 OG	0818470	10
UC-TMF 4 YE	0818483	10
UC-TMF 4 VT	0815897	10
UC-TMF 4 BU	0818496	10
UC-TMF 4 GN	0818519	10
UC-TMF 5	0818153	10
UC-TMF 5 RD	0818551	10
UC-TMF 5 OG	0818522	10
UC-TMF 5 YE	0818535	10
UC-TMF 5 VT	0815907	10
UC-TMF 5 BU	0818548	10
UC-TMF 5 GN	0818564	10
UC-TMF 6	0818140	10
UC-TMF 6 RD	0818603	10
UC-TMF 6 OG	0818577	10
UC-TMF 6 YE	0818580	10
UC-TMF 6 VT	0815910	10
UC-TMF 6 BU	0818593	10
UC-TMF 6 GN	0818616	10
UC-TMF 8	0818137	10
UC-TMF 8 RD	0818658	10
UC-TMF 8 OG	0818629	10
UC-TMF 8 YE	0818632	10
UC-TMF 8 VT	0815923	10
UC-TMF 8 BU	0818645	10
UC-TMF 8 GN	0818661	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 4	5146105	1
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UniCard terminal marking for flat marker groove



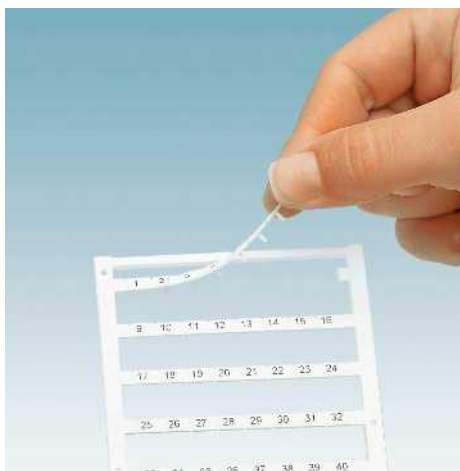
Markers for terminal block widths up to 16 mm

General data		Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for marking terminal blocks with a flat marker groove, 48-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UC-TMF 10	0818124	10
	red	UC-TMF 10 RD	0818700	10
	orange	UC-TMF 10 OG	0818674	10
	yellow	UC-TMF 10 YE	0818687	10
	violet	UC-TMF 10 VT	0815981	10
	blue	UC-TMF 10 BU	0818690	10
	green	UC-TMF 10 GN	0818713	10
UniCard, for marking terminal blocks with a flat marker groove, 40-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UC-TMF 12	0819233	10
	red	UC-TMF 12 RD	0817840	10
	orange	UC-TMF 12 OG	0817866	10
	yellow	UC-TMF 12 YE	0819246	10
	violet	UC-TMF 12 VT	0822686	10
	blue	UC-TMF 12 BU	0817853	10
	green	UC-TMF 12 GN	0817837	10
UniCard, for marking terminal blocks with a flat marker groove, 32-section, 4 individual labels per strip, for a terminal block width of 16 mm	white	UC-TMF 16	0819262	10
	red	UC-TMF 16 RD	0817824	10
	orange	UC-TMF 16 OG	0817811	10
	yellow	UC-TMF 16 YE	0819259	10
	violet	UC-TMF 16 VT	0822699	10
	blue	UC-TMF 16 BU	0817905	10
	green	UC-TMF 16 GN	0817921	10
		Accessories		
Magazine, for CMS-P1-PLOTTER		P1 UC-MAG 4	5146105	1

Terminal marking

UniCard terminal marking for marking stud holders

Can be marked using:



UV LED technology



Plotter

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Stud-type markers for terminal block widths of 5.2 / 7.5 / 10 mm

- The UC-TMN ... UniCard marking range includes markers for products with a marking stud holder, such as mini terminal blocks, transformer terminal blocks or COMBICON PCB connection terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, for marking transformer terminal blocks	
96-section	white
64-section	white
48-section	white

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-TMN 5,2	0822945	10
UC-TMN 7,5	0821823	10
UC-TMN 10	0828554	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 1	5146079	1
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Notes:

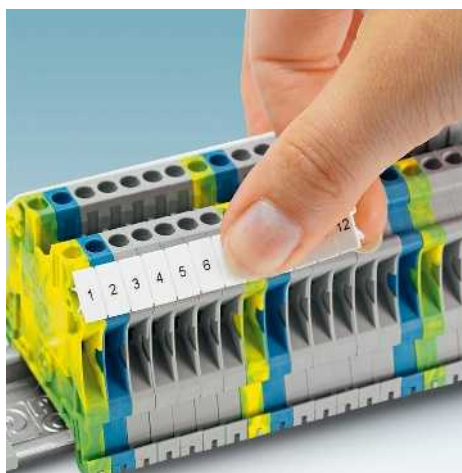
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.



Terminal marking

Zack marker strip terminal marking for tall marker groove

Can be marked using:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- The multi-section marking strips are easy to fit and can be easily separated if required
- Different pitches are possible on request
- Unmarked marking strips can be custom-marked with a plotter or by hand
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

Selection of marking direction

- Please take care to select the correct marking direction for printed products
- ① "Printed horizontally" marking, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" marking, text is the right way round for a vertically arranged terminal strip

Notes:

1) 10 identically marked strips make up one packing unit (PU).

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description

Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks

as above, however, large batch, sufficient for 1000 terminal blocks

Zack marker strip, printed horizontally, ten sections with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, (ZB 3,5 and ZB 4, max. 2 digits¹⁾)

Markers for a terminal block width of 5.2 mm

Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100¹⁾

Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE¹⁾

U, V, W, N, ↓

Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100¹⁾

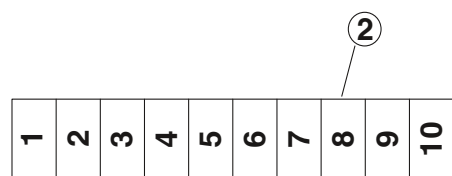
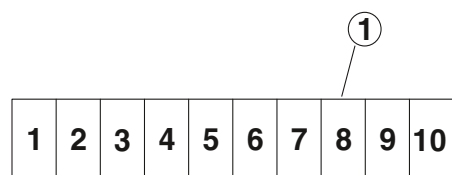
Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 3,5:UNBEDRUCKT	0829414	10
ZB 3,5,LGS:FORTL.ZAHLEN	0801404	10
ZB 3,5,QR:FORT.ZAHLEN	0801405	10

Magazine, for CMS-P1-PLOTTER

Accessories

CMS-P1-M/ZB	5144699	1
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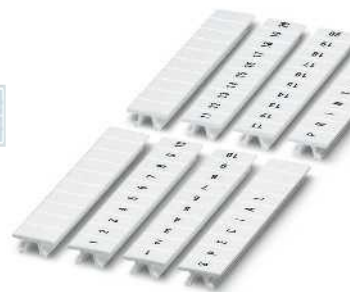
Markers for a terminal block width of 4.2 mm

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Markers for a terminal block width of 5.2 mm

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Markers for a terminal block width of 5.08 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 4 :UNBEDRUCKT	0805001	10
ZB 4/WH-100:UNBEDRUCKT	0805810	100
ZB 4,LGS:FORTL.ZAHLEN	0805739	10
ZB 4,QR:FORTL.ZAHLEN	0805807	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 5 :UNBEDRUCKT	1050004	10
ZB 5/WH-100:UNBEDRUCKT	5060906	100
ZB 5,LGS:FORTL.ZAHLEN	1050017	10
ZB 5,LGS:GLEICHE ZAHLEN	1050033	10
ZB 5,LGS:L1-N,PE	1050415	10
ZB 5,QR:FORTL.ZAHLEN	1050020	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 5,08:UNBEDRUCKT	0809793	10
ZB 5,08,LGS:FORTL.ZAHLEN	0809803	10
ZB 5,08,LGS:L1-N,PE	0809832	10
ZB 5,08,LGS:U-N	0809845	10
ZB 5,08,QR:FORTL.ZAHLEN	0809858	10

Accessories		
Accessories	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

Accessories		
Accessories	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

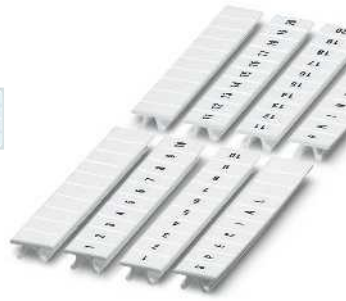
Accessories		
Accessories	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

Terminal marking

Zack marker strip terminal marking for tall marker groove

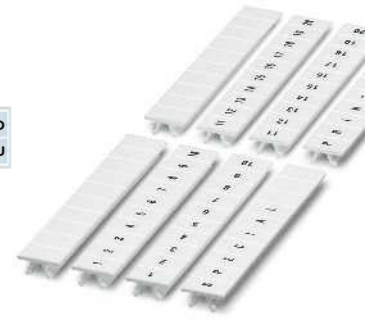
- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

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Markers for a terminal block width of 6.2 mm

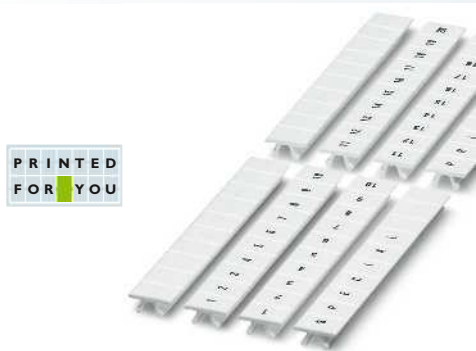
PRINTED
FOR YOU



Markers for a terminal block width of 6.6 mm

Notes:
1) 10 identically marked strips make up one packing unit (PU).

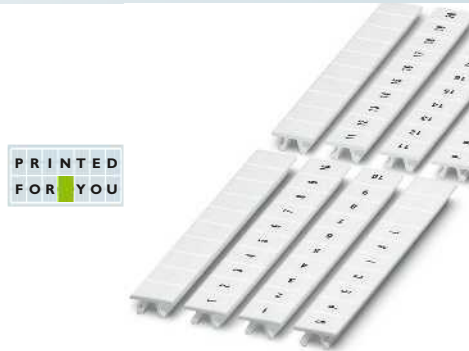
		Technical data			Technical data		
General data		CMS-P1-PLOTTER			CMS-P1-PLOTTER		
Can be marked using		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 100			-40 ... 100		
Temperature range [°C]		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Free from silicone and halogen			Free from silicone and halogen		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks		ZB 6:UNBEDRUCKT	1051003	10	ZB 6,6:UNBEDRUCKT	1052332	10
as above, however, large batch, sufficient for 1000 terminal blocks	white white						
Zack marker strip, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100		ZB 6,LGS:FORTL.ZAHLEN	1051016	10	ZB 6,6,LGS:FORTL.ZAHLEN	1052345	10
Markers for a terminal block width of 6.2 mm	white						
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100		ZB 6,LGS:GLEICHE ZAHLEN	1051032	10			
	white						
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE		ZB 6,LGS:L1-N,PE	1051414	10			
	white	ZB 6,LGS:U-N	1051430	10			
U, V, W, N, ↓	white						
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100¹⁾		ZB 6,QR:FORTL.ZAHLEN	1051029	10			
	white						
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1



Markers for a terminal block width of 7.5 mm



Markers for a terminal block width of 7.62 mm



Markers for a terminal block width of 8.2 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 7,5:UNBEDRUCKT	0803948	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 7,62:UNBEDRUCKT	1054000	10
ZB 7,62/WH-100:UNBEDRUCKT	5060922	100
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 8:UNBEDRUCKT	1052002	10
ZB 8/WH-100:UNBEDRUCKT	5060896	100
ZB 8,LGS:FORTL.ZAHLEN	1052015	10
ZB 8,LGS:L1-N,PE	1052413	10
ZB 8,QR:FORTL.ZAHLEN	1052028	10

Accessories		
CMS-P1-M/ZB	5144699	1

Accessories		
CMS-P1-M/ZB	5144699	1

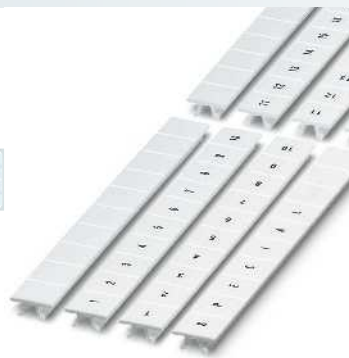
Accessories		
CMS-P1-M/ZB	5144699	1

Marking and labeling - MARKING system

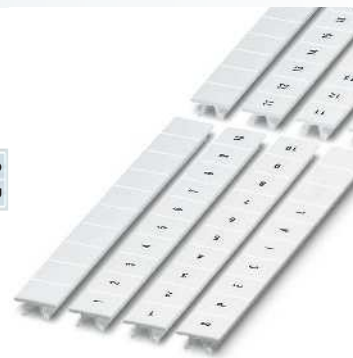
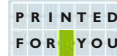
Terminal marking

Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 9 mm



Markers for a terminal block width of 10.2 mm

Notes:
 1) 10 identically marked strips make up one packing unit (PU).

	Technical data			Technical data			
General data							
Can be marked using	CMS-P1-PLOTTER			CMS-P1-PLOTTER			
Material	PA			PA			
Inflammability class according to UL 94	V2			V2			
Temperature range	-40 ... 100 [°C]			-40 ... 100			
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			
Components	Free from silicone and halogen			Free from silicone and halogen			
	Ordering data			Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks		ZB 9:UNBEDRUCKT	0829127	10	ZB 10:UNBEDRUCKT	1053001	10
as above, however, large batch, sufficient for 1000 terminal blocks	white						
5-section	white				ZB10,LGS:FORTL.ZAHLEN	1053014	10
Flat zack marker strip, 10-section, printed horizontally: with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white				ZB10,LGS:GLEICHE ZAHLEN	1053030	10
Markers for a terminal block width of 10.2 mm	white				ZB10,LGS:L1-N,PE	1053412	10
Zack marker strip, printed horizontally, 10-section, with same numbers, e.g., 1/1/1, 2/2/2, etc. up to 100/100/100 ¹⁾	white				ZB10,LGS:U-N	1053438	10
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE ¹⁾	white				ZB10,QR:FORTL.ZAHLEN	1053027	10
U, V, W, N, ↓	white						
5-section	white						
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾	white						
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1

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Markers for a terminal block width of 12 mm

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Markers for a terminal block width of 13 mm

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Markers for a terminal block width of 15 mm

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 12:UNPRINTED	0812120	10
ZB 12,LGS:L1-N,PE	0812146	10

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 13:UNBEDRUCKT	0829131	10

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 15:UNBEDRUCKT	0811972	10
ZB 15,LGS:L1-N,PE	0811998	10

Accessories

CMS-P1-M/ZB	5144699	1
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Accessories

CMS-P1-M/ZB	5144699	1
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Accessories

CMS-P1-M/ZB	5144699	1
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Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for tall marker groove

- The ZB zack marker strip system is a marking solution for modular terminal blocks and electronic modules with tall marker grooves
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

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Markers for a terminal block width of 16.3 mm

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Markers for a terminal block width of 17 mm

Notes:
1) 10 identically marked strips make up one packing unit (PU).

		Technical data			Technical data		
General data		CMS-P1-PLOTTER			CMS-P1-PLOTTER		
Can be marked using		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 100			-40 ... 100		
Temperature range		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Free from silicone and halogen			Free from silicone and halogen		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, 5-section, unprinted: pack contains enough to label 50 terminal blocks		ZB 16,3:UNPRINTED	0820222	10	ZB 17:UNBEDRUCKT	0829391	10
4-part, for 40 terminals	white						
Zack marker strip, 5-section, printed horizontally: With L1, L2, L3, N, PE ¹⁾	white						
4-section	white						
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZB	5144699	1	CMS-P1-M/ZB	5144699	1



Markers for a terminal block width of 18 mm



Markers for a terminal block width of 22 mm



Markers for a terminal block width of 25 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER • X-PEN 0,35 • P-PEN PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 18:UNBEDRUCKT	0811833	10
ZB 18,LGS:L1-N,PE	0811846	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 22:UNBEDRUCKT	0811862	10
ZB 22,LGS:L1-N,PE	0811875	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 25:UNPRINTED	0802751	10

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

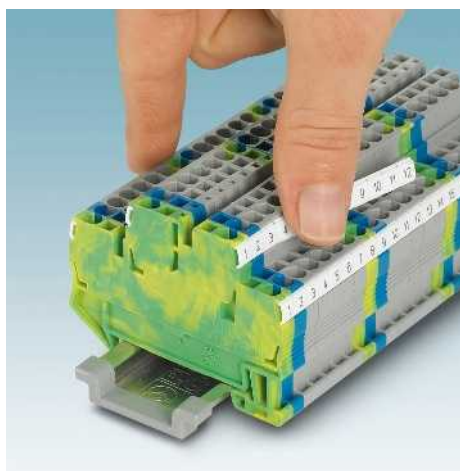
Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZB	5144699	1

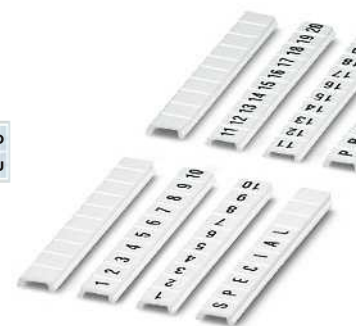
Terminal marking

Zack marker strip terminal marking for flat marker groove

Can be marked using:



Plotter



Markers for a terminal block width of 3.5 mm

- The ZBF zack marker strip system with flat marker groove is a marking solution for terminal blocks and electronics modules
- The multi-section marking strips are easy to fit and can be easily separated if required
- Different pitches are possible on request
- Unmarked marking strips can be custom-marked with a plotter or by hand
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements

Selection of marking direction

- Please take care to select the correct marking direction for printed products
- ① "Printed horizontally" marking, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" marking, text is the right way round for a vertically arranged terminal strip

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

1) 10 identically marked strips make up one packing unit (PU).

General data	
Can be marked using	Plotter
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
Zack flat marker strip, horizontal, 10-section, unprinted: pack contains enough to label 100 terminal blocks	
as above, however, large batch, sufficient for 1000 terminal blocks	white
Zack marker strip, flat, printed horizontally, ten sections with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, (ZBF 3.5 and ZBF 4, max. 2 digits ¹⁾)	white
Markers for a terminal block width of 5.2 mm	white
Zack marker strip, flat, printed horizontally, 10-section, with even numbers, e.g., 2-20, 22-40, etc. up to 82-100, (ZBF 4 max. 2-digit ¹⁾)	white
Zack marker strip, flat, printed horizontally, 10-section, with odd numbers, e.g. 1-19, 21-39, etc. up to 81-99, (ZBF 4 max. 2-digit ¹⁾)	white
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100 ¹⁾)	white

Technical data

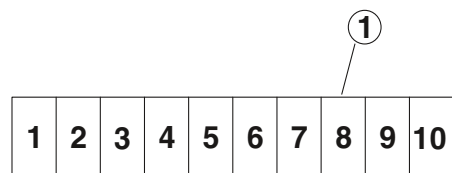
CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

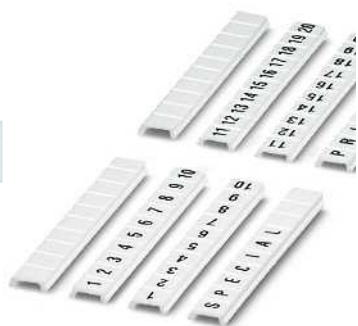
Type	Order No.	Pcs. / Pkt.
ZBF 3,5:UNBEDRUCKT	0829392	10
ZBF 3,5,LGS:FORTL.ZAHLEN	0801406	10
ZBF 3,5,QR:FORTL.ZAHLEN	0801407	10

Accessories

Magazine, for CMS-P1-PLOTTER		
CMS-P1-M/ZBF	5144709	1

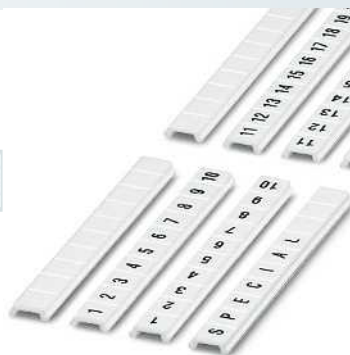


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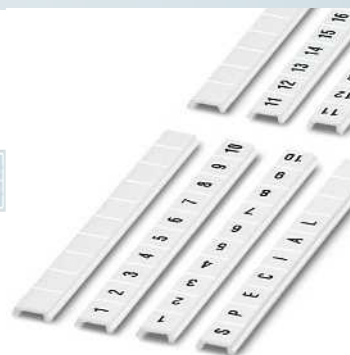
Markers for a terminal block width of 4.2 mm

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Markers for a terminal block width of 5.2 mm

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Markers for a terminal block width of 6.2 mm

Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 4:UNBEDRUCKT	0808587	10
ZBF 4/WH-100:UNBEDRUCKT	0808613	100
ZBF 4,LGS:FORTL.ZAHLEN	0808626	10
ZBF 4,LGS:GERADE ZAHLEN	0810818	10
ZBF 4,LGS:UNGERADE ZAHLEN	0810850	10
ZBF 4,QR:FORTL.ZAHLEN	0808820	10

Accessories

CMS-P1-M/ZBF	5144709	1
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Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 5:UNBEDRUCKT	0808642	10
ZBF 5/WH-100:UNBEDRUCKT	0808668	100
ZBF 5,LGS:FORTL.ZAHLEN	0808671	10
ZBF 5,LGS:GERADE ZAHLEN	0810821	10
ZBF 5,LGS:UNGERADE ZAHLEN	0810863	10
ZBF 5,QR:FORTL.ZAHLEN	0808697	10

Accessories

CMS-P1-M/ZBF	5144709	1
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Technical data

CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
ZBF 6:UNBEDRUCKT	0808710	10
ZBF 6/WH-100:UNBEDRUCKT	0808736	100
ZBF 6,LGS:FORTL.ZAHLEN	0808749	10
ZBF 6,LGS:GERADE ZAHLEN	0810834	10
ZBF 6,LGS:UNGERADE ZAHLEN	0810876	10
ZBF 6,QR:FORTL.ZAHLEN	0808765	10

Accessories

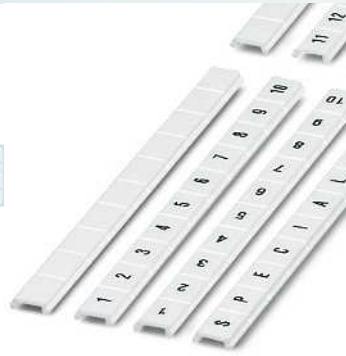
CMS-P1-M/ZBF	5144709	1
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Marking and labeling - MARKING system

Terminal marking

Zack marker strip terminal marking for flat marker groove

- The ZBF zack marker strip system with flat marker groove is a marking solution for terminal blocks and electronics modules
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 7.5 mm



Markers for a terminal block width of 8.2 mm

Notes:
 1) 10 identically marked strips make up one packing unit (PU).

	Technical data			Technical data			
General data							
Can be marked using	CMS-P1-PLOTTER			CMS-P1-PLOTTER			
Material	PA			PA			
Inflammability class according to UL 94	V2			V2			
Temperature range	-40 ... 100 [°C]			-40 ... 100			
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)			
Components	Free from silicone and halogen			Free from silicone and halogen			
	Ordering data			Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, flat, 10-section, without color print	white	ZBF 7,5:UNBEDRUCKT	0809942	10	ZBF 8:UNBEDRUCKT	0808781	10
5-section	white						
Zack marker strip, flat, printed horizontally, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100¹⁾	white	ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10	ZBF 8,LGS:FORTL.ZAHLEN	0808804	10
Markers for a terminal block width of 8.2 mm	white						
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1-10, 11-20, etc. up to 91-100¹⁾	white	ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10			
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width of 9 mm



Markers for a terminal block width of 10.2 mm



Markers for a terminal block width of 12 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 9:UNBEDRUCKT	0829129	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF10:UNBEDRUCKT	0809997	10
ZBF10,LGS:FORTL.ZAHLEN	0810009	10
ZBF10,QR:FORTL.ZAHLEN	0810025	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 12:UNBEDRUCKT	0809735	10

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Terminal marking

Zack marker strip terminal marking for flat marker groove

- The ZBF zack marker strip system with flat marker groove is a marking solution for terminal blocks and electronics modules
- Marking service: Phoenix Contact can custom-mark all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 13 mm



Markers for a terminal block width of 15 mm

		Technical data			Technical data		
General data		CMS-P1-PLOTTER			CMS-P1-PLOTTER		
Can be marked using		PA		PA			
Material		V2		V2			
Inflammability class according to UL 94		-40 ... 100		-40 ... 100			
Temperature range	[°C]	DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)			
Wipe resistance		Free from silicone and halogen		Free from silicone and halogen			
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Zack marker strip, flat, 5-section, without color print	white	ZBF 13:UNBEDRUCKT	0829133	10	ZBF 15:UNBEDRUCKT	0811202	10
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		CMS-P1-M/ZBF	5144709	1	CMS-P1-M/ZBF	5144709	1



Markers for a terminal block width of 16.3 mm

Markers for a terminal block width of 17 mm

Markers for a terminal block width of 19.7 mm

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 16:UNPRINTED	0827464	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 17:UNBEDRUCKT	0815020	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 19,7:UNBEDRUCKT	0810627	10

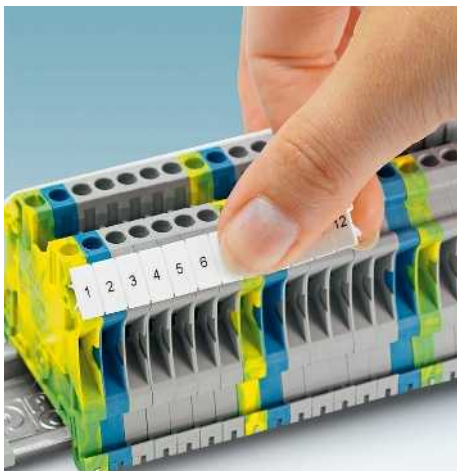
Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/ZBF	5144709	1

Terminal marking

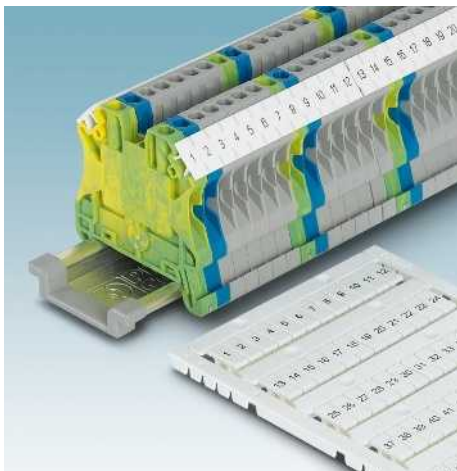
UniCard terminal marking for tall marker groove



- The UCT-TM... UniCard marking range includes markers for products with tall marker grooves
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, BLUEMARK..., and the THERMOMARK CARD
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

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Markers for a terminal block width of up to 6.2 mm

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard, for marking terminal blocks with a marker groove, 102-section, 17 individual labels per strip, for a terminal block width of 3.5 mm	white
	red
	orange
	yellow
	violet
	blue
	green

UniCard, for marking terminal blocks with a marker groove, 84-section, 14 individual labels per strip, for a terminal block width of 4.2 mm

white
red
orange
yellow
violet
blue
green

UniCard, for marking terminal blocks with a marker groove, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white
red
orange
yellow
violet
blue
green

UniCard, for marking terminal blocks with a marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white
red
orange
yellow
violet
blue
green

UniCard, for marking terminal blocks with a marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white
red
orange
yellow
violet
blue
green

Magazine, for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)

Type	Order No.	Pcs. / Pkt.
UCT-TM 3,5	0829484	10
UCT-TM 3,5 RD	0829505	10
UCT-TM 3,5 OG	0829506	10
UCT-TM 3,5 YE	0829485	10
UCT-TM 3,5 VT	0829507	10
UCT-TM 3,5 BU	0829508	10
UCT-TM 3,5 GN	0829509	10

UCT-TM 4	0828732	10
UCT-TM 4 RD	0829149	10
UCT-TM 4 OG	0829150	10
UCT-TM 4 YE	0828733	10
UCT-TM 4 VT	0829151	10
UCT-TM 4 BU	0829152	10
UCT-TM 4 GN	0829153	10

UCT-TM 5	0828734	10
UCT-TM 5 RD	0829154	10
UCT-TM 5 OG	0829155	10
UCT-TM 5 YE	0828735	10
UCT-TM 5 VT	0829156	10
UCT-TM 5 BU	0829157	10
UCT-TM 5 GN	0829158	10

UCT-TM 6	0828736	10
UCT-TM 6 RD	0829159	10
UCT-TM 6 OG	0829160	10
UCT-TM 6 YE	0828737	10
UCT-TM 6 VT	0829161	10
UCT-TM 6 BU	0829162	10
UCT-TM 6 GN	0829163	10

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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UniCard terminal marking for tall marker groove

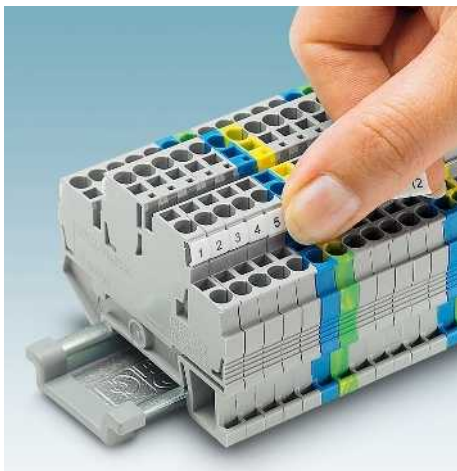


Markers for terminal block widths up to 16 mm

General data		Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Material		PC		
Inflammability class according to UL 94		V0		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for marking terminal blocks with a marker groove, 48-section, 8 individual labels per strip, for a terminal block width of 7.62 mm	white	UCT-TM 7,62	0828738	10
	red	UCT-TM 7,62 RD	0829510	10
	orange	UCT-TM 7,62 OG	0829511	10
	yellow	UCT-TM 7,62 YE	0828739	10
	violet	UCT-TM 7,62 VT	0829512	10
	blue	UCT-TM 7,62 BU	0829513	10
	green	UCT-TM 7,62 GN	0829514	10
UniCard, for marking terminal blocks with a marker groove, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white	UCT-TM 8	0828740	10
	red	UCT-TM 8 RD	0829164	10
	orange	UCT-TM 8 OG	0829165	10
	yellow	UCT-TM 8 YE	0828741	10
	violet	UCT-TM 8 VT	0829166	10
	blue	UCT-TM 8 BU	0829167	10
	green	UCT-TM 8 GN	0829168	10
UniCard, for marking terminal blocks with a marker groove, 36-section, 6 individual labels per strip, for a terminal block width of 10.2 mm	white	UCT-TM 10	0829142	10
	red	UCT-TM 10 RD	0829169	10
	orange	UCT-TM 10 OG	0829170	10
	yellow	UCT-TM 10 YE	0829143	10
	violet	UCT-TM 10 VT	0829171	10
	blue	UCT-TM 10 BU	0829172	10
	green	UCT-TM 10 GN	0829173	10
UniCard, for marking terminal blocks with a marker groove, 30-section, 5 individual labels per strip, for a terminal block width of 12 mm	white	UCT-TM 12	0829144	10
	red	UCT-TM 12 RD	0829174	10
	orange	UCT-TM 12 OG	0829175	10
	yellow	UCT-TM 12 YE	0829145	10
	violet	UCT-TM 12 VT	0829176	10
	blue	UCT-TM 12 BU	0829177	10
	green	UCT-TM 12 GN	0829178	10
UniCard, for marking terminal blocks with a marker groove, 18-section, 3 individual labels per strip, for a terminal block width of 16 mm	white	UCT-TM 16	0829146	10
	red	UCT-TM 16 RD	0829179	10
	orange	UCT-TM 16 OG	0829180	10
	yellow	UCT-TM 16 YE	0829147	10
	violet	UCT-TM 16 VT	0829181	10
	blue	UCT-TM 16 BU	0829182	10
	green	UCT-TM 16 GN	0829183	10

Terminal marking

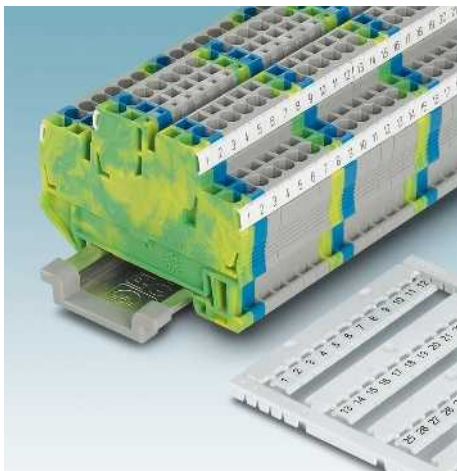
UniCard terminal marking for flat marker groove



- The UCT-TMF ... UniCard marking range includes markers for products with tall and flat marker grooves
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, BLUEMARK..., and the THERMOMARK CARD
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

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Markers for a terminal block width of up to 6.2 mm

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
-------------	-------

UniCard, for marking terminal blocks with a flat marker groove, 108-section, 18 individual labels per strip, for a terminal block width of 3.5 mm

white

red

orange

yellow

violet

blue

green

UCT-TMF 3,5

UCT-TMF 3,5 RD

UCT-TMF 3,5 OG

UCT-TMF 3,5 YE

UCT-TMF 3,5 VT

UCT-TMF 3,5 BU

UCT-TMF 3,5 GN

0829486

0829515

0829516

0829487

0829517

0829518

0829519

10

10

10

10

10

10

10

UniCard, for marking terminal blocks with a flat marker groove, 90-section, 15 individual labels per strip, for a terminal block width of 4.2 mm

white

red

orange

yellow

violet

blue

green

UCT-TMF 4

UCT-TMF 4 RD

UCT-TMF 4 OG

UCT-TMF 4 YE

UCT-TMF 4 VT

UCT-TMF 4 BU

UCT-TMF 4 GN

0828742

0829184

0829185

0828743

0829186

0829187

0829188

10

10

10

10

10

10

10

UniCard, for marking terminal blocks with a flat marker groove, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm

white

red

orange

yellow

violet

blue

green

UCT-TMF 5

UCT-TMF 5 RD

UCT-TMF 5 OG

UCT-TMF 5 YE

UCT-TMF 5 VT

UCT-TMF 5 BU

UCT-TMF 5 GN

0828744

0829189

0829190

0828745

0829191

0829192

0829193

10

10

10

10

10

10

10

UniCard, for marking terminal blocks with a flat marker groove, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm

white

red

orange

yellow

violet

blue

green

UCT-TMF 6

UCT-TMF 6 RD

UCT-TMF 6 OG

UCT-TMF 6 YE

UCT-TMF 6 VT

UCT-TMF 6 BU

UCT-TMF 6 GN

0828746

0829194

0829195

0828747

0829196

0829197

0829198

10

10

10

10

10

10

10

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...

Accessories

Accessories	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG2	5146563	1

UniCard terminal marking for flat marker groove

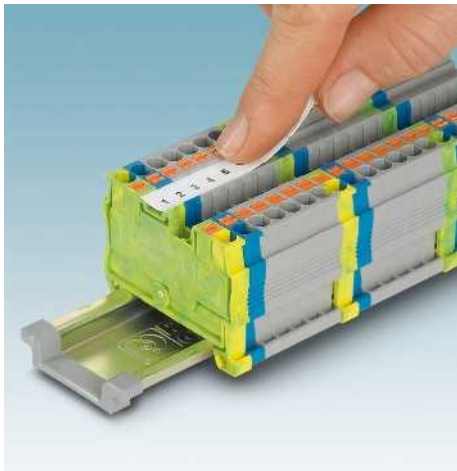


Markers for terminal block widths up to 16 mm

General data		Technical data			
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER			
Material		PC			
Inflammability class according to UL 94		V0			
Temperature range		-40 ... 120 [°C]			
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			
Components		Free from silicone and halogen			
Description		Ordering data			
		Type	Order No.	Pcs. / Pkt.	
UniCard , for marking terminal blocks with a flat marker groove, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm		white	UCT-TMF 8	0828748	10
	red	UCT-TMF 8 RD	0829199	10	
	orange	UCT-TMF 8 OG	0829200	10	
	yellow	UCT-TMF 8 YE	0828749	10	
	violet	UCT-TMF 8 VT	0829201	10	
	blue	UCT-TMF 8 BU	0829202	10	
	green	UCT-TMF 8 GN	0829203	10	
UniCard , for marking terminal blocks with a flat marker groove, 36-section, 6 individual labels per strip, for a terminal block width of 10.2 mm		white	UCT-TMF 10	0829204	10
	red	UCT-TMF 10 RD	0829205	10	
	orange	UCT-TMF 10 OG	0829206	10	
	yellow	UCT-TMF 10 YE	0829207	10	
	violet	UCT-TMF 10 VT	0829208	10	
	blue	UCT-TMF 10 BU	0829209	10	
	green	UCT-TMF 10 GN	0829210	10	
UniCard , for marking terminal blocks with a flat marker groove, 30-section, 5 individual labels per strip, for a terminal block width of 12 mm		white	UCT-TMF 12	0829214	10
	red	UCT-TMF 12 RD	0829212	10	
	orange	UCT-TMF 12 OG	0829213	10	
	yellow	UCT-TMF 12 YE	0829211	10	
	violet	UCT-TMF 12 VT	0829215	10	
	blue	UCT-TMF 12 BU	0829216	10	
	green	UCT-TMF 12 GN	0829217	10	
UniCard , for marking terminal blocks with a flat marker groove, 24-section, 4 individual labels per strip, for a terminal block width of 16 mm		white	UCT-TMF 16	0829218	10
	red	UCT-TMF 16 RD	0829219	10	
	orange	UCT-TMF 16 OG	0829220	10	
	yellow	UCT-TMF 16 YE	0829221	10	
	violet	UCT-TMF 16 VT	0829222	10	
	blue	UCT-TMF 16 BU	0829223	10	
	green	UCT-TMF 16 GN	0829224	10	
Magazine, for THERMOMARK CARD ..., for accommodating: UCT-TMF ...		Accessories			
		THERMOMARK CARD-UCT-MAG2	5146563	1	

Terminal marking

UniSheet terminal marking for a universal marker groove



- The US-TM 100 UniSheet markers are suitable for products with universal marker grooves
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

Can be marked using:



Thermal transfer for sheets and cards

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13 strips with a strip width of 104 mm

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
UniSheet, for marking push-in terminal blocks with a special center groove	white

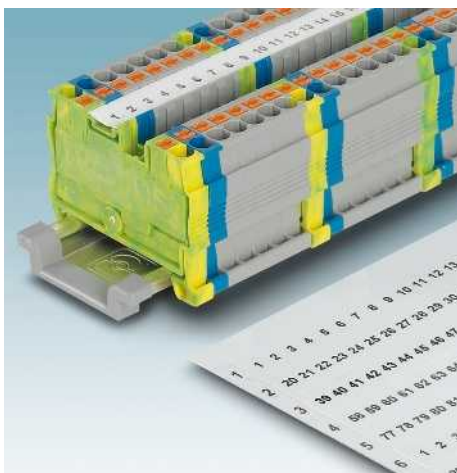
Ordering data

Type	Order No.	Pcs. / Pkt.
US-TM 100	0829255	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

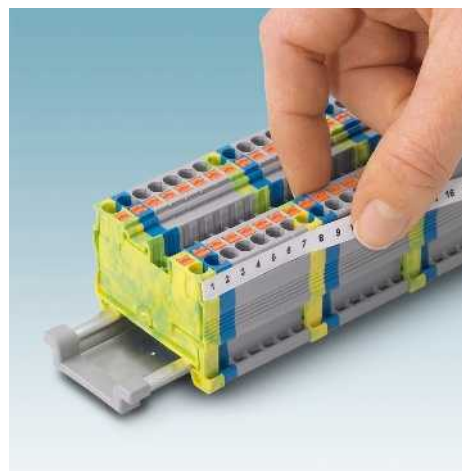
Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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UniSheet terminal marking for a flat marker groove

Can be marked using:



Thermal transfer for sheets and cards

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20 strips with a strip width of 104 mm

- The US-TMF 100 UniSheet markers are suitable for products with a flat marker groove
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

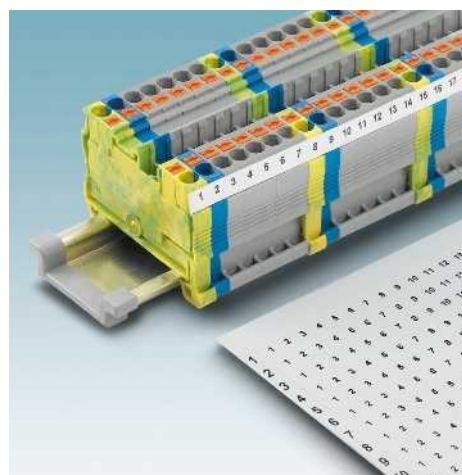
Description	Color
UniSheet, for marking terminal blocks with a tall, flat or universal marker groove	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-TMF 100	0829260	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials
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Accessories		
	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

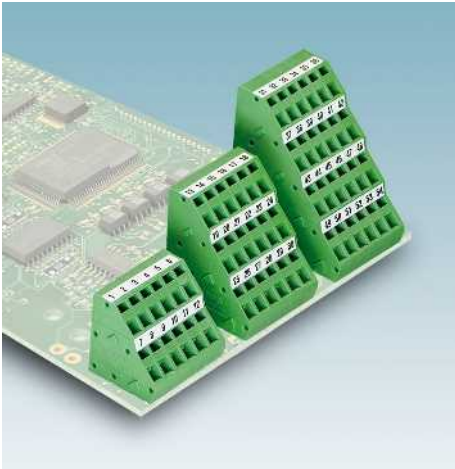
Notes:
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100



Terminal marking

UniSheet marker strips, self-adhesive, for terminal blocks without marker groove

Can be marked using:



Thermal transfer for sheets and cards



26 strips, 104 mm wide, 2.8 mm high

- The US-TML marking range includes self-adhesive marker strips for products without a marker groove
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts

General data	
Can be marked using	
Number of individual labels	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
26	
1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniSheet, unprinted, for marking terminal blocks without marker groove	
Lettering field size: 104 x 2.8 mm	white
UniSheet, unprinted, for marking terminal blocks without marker groove	
Lettering field size: 104 x 3.8 mm	white
Lettering field size: 104 x 5 mm	white
Lettering field size: 104 x 10 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-TML (104X2,8)	0830767	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials
--

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1



22 strips, 104 mm wide, 3.8 mm high



19 strips, 104 mm wide, 5 mm high



11 strips, 104 mm wide, 10 mm high

Technical data

THERMOMARK CARD
22
1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

THERMOMARK CARD
19
1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data

THERMOMARK CARD
11
1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
US-TML (104X3,8)	0830768	10

Ordering data

Type	Order No.	Pcs. / Pkt.
US-TML (104X5)	0830769	10

Ordering data

Type	Order No.	Pcs. / Pkt.
US-TML (104X10)	0830770	10

Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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Terminal marking

Marker strips for terminal marking, for tall and flat marker grooves



- The TMT marking range includes markers for all products with tall and flat marker grooves
- The markers that are supplied on rolls can be quickly and cost-effectively marked using THERMOMARK printers
- The perforated marking strips are easy to separate and can be easily fitted using the tool supplied
- Marking service: Phoenix Contact can custom-mark all TMT markers in accordance with your requirements

Notes:

An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100.

¹⁾ The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.

Can be marked using:



Thermal transfer for rolls



Markers for terminal block widths up to 8.2 mm

General data

Can be marked using

Material
Temperature range [°C]
Wipe resistance
Components

Description Color

Markers, perforated, unprinted, for a terminal block width of 4.2 mm, for all terminal blocks with a tall, flat or universal marker groove, 1 roll = 1000 strips, 24,000 individual labels, 24 individual labels per strip, strip height: 6.4 mm, incl. TMT TOOL

white

Markers, as above, for a terminal block width of 5.2 mm, 1 roll = 1000 strips, 19,000 individual labels, 19 individual labels per strip, incl. TMT TOOL

white

Markers, as above, for a terminal block width of 6.2 mm, 1 roll = 1000 strips, 16,000 individual labels, 16 individual labels per strip, incl. TMT TOOL

white

Markers, as above, for a terminal block width of 8.2 mm, 1 roll = 1000 strips, 12,000 individual labels, 12 individual labels per strip, incl. TMT TOOL

white

Locking tool to snap into the TMT... materials¹⁾

orange

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
TMT 4 R	0816375	1
TMT 5 R	0816430	1
TMT 6 R	0816498	1
TMT 8 R	0816553	1

Accessories

TMT TOOL	0816650	1
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Marker strips for terminal marking, for tall and flat marker grooves

Notes:
 1) The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.



Markers for a terminal block width of 10.2 mm

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1		
Material		Polyester		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
Markers, perforated, unprinted , for all terminal blocks with a tall, flat or universal marker groove, 1 roll = 1000 strips, 10,000 individual labels, 10 individual labels per strip, strip height: 6.4 mm, incl. TMT TOOL				
	white	TMT 10 R	0816210	1
Markers, for terminal blocks, unperforated, unprinted , strip width: 101.5 mm, 1 roll = 1000 strips, 1000 individual labels, 1 individual label per strip, incl. TMT TOOL				
	white	TMT 100 R	0816605	1
Locking tool to snap into the TMT... materials ¹⁾		Accessories		
	orange	TMT TOOL	0816650	1

Marking and labeling - MARKING system

Terminal marking

Terminal marking, marker strips for tall and flat marker grooves



- The TMT marking range includes markers for all products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark all TMT markers in accordance with your requirements

Notes:

¹⁾ The TMT TOOL snap-in tool can only be used for terminal blocks from Phoenix Contact.

Can be marked using:



Thermal transfer for rolls

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Unmarked or marked according to customer specifications

General data

Can be marked using

Material
Material strength
Inflammability class according to UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
PVC
0.50 mm
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Description	Color
Insert strips , unprinted, 1 roll = 50 m, continuous	
Strip height: 5.5 mm	white
Strip height: 6.2 mm	white
Strip height: 6.5 mm	white
Strip height: 7.5 mm	white
Strip height: 8 mm	white
Strip height: 8.5 mm	white
Strip height: 9.5 mm	white
Strip height: 10 mm	white
Strip height: 10.5 mm	white
Strip height: 10.8 mm	white
Strip height: 12 mm	white

Ordering data

Type	Order No.	Pcs. / Pkt.
TMT (EX5,5)R	0803062	1
TMT (EX6,2)R	0803063	1
TMT (EX6,5)R	0803064	1
TMT (EX7,5)R	0803065	1
TMT (EX8)R	0803066	1
TMT (EX8,5)R	0803067	1
TMT (EX9,5)R	0828295	1
TMT (EX10)R	0803068	1
TMT (EX10,5)R	0803070	1
TMT2 (EX11)R	0802683	1
TMT (EX12)R	0803071	1

Locking tool to snap into the TMT... materials¹⁾

orange

External media hub, for roll diameters of 150 mm to 400 mm

Accessories

TMT TOOL	0816650	1
THERMOMARK ROLL-ERH	5146448	1

TMT ... terminal marking for terminal blocks from Phoenix Contact and other manufacturers

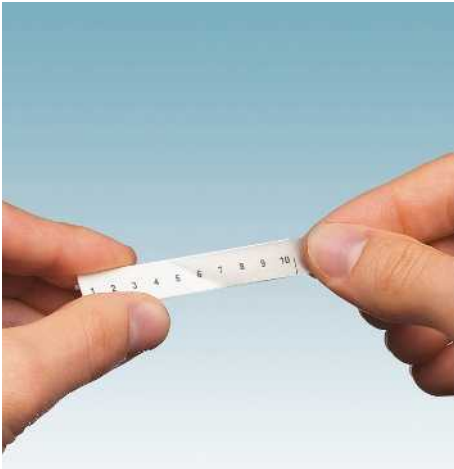


	TMT (EX5,5)R	TMT (EX6,2)R	TMT (EX6,5)R	TMT (EX7,5)R	TMT (EX8)R	TMT (EX8,5)R	TMT (EX9,5)R	TMT (EX10)R	TMT (EX10,5)R	TMT2 (EX11)R	TMT (EX12)R
TMT- markers, roll	0803062	0803063	0803064	0803065	0803066	0803067	0828295	0803068	0803070	0802683	0803071
Strip height	5.5	6.2	6.5	7.5	8	8.5	9.5	10	10.5	10.8	12
Terminal manufacturer											
Phoenix Contact		■					■				
Fuji Electronics Industry					■			■			
IDEC	■			■			■	■			
KASUGA	■		■				■				
TOGI						■		■			■
WAGO (2001 ... - 2016 ...)										■	
Yoshida Electronics	■		■	■		■		■	■		■

Terminal marking

Self-adhesive marker strips

Can be marked using:



Thermal transfer for rolls

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Marker with strip width of 101.5 mm

- The products in the TML marking range allow subsequent marking of zack marker strip materials and flat zack marker strip materials using a marking foil
- The markers that are supplied on rolls can be quickly and cost-effectively marked using THERMOMARK printers
- Marking service: Phoenix Contact can custom-mark all TML markers in accordance with your requirements

Notes:
An overview of the terminal blocks that can be marked that are available from Phoenix Contact can be found starting on page 100

General data	
Can be marked using	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1	
1	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
Marking foil for zack marker strip, unprinted, perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 9.5 mm	transparent
Marking foil for zack marker strip, flat, unprinted, perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 4.2 mm	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
TML (101X9,5)R TR	0816647	1
TML (101X4,2)R TR	0816621	1



Self-adhesive marker strips

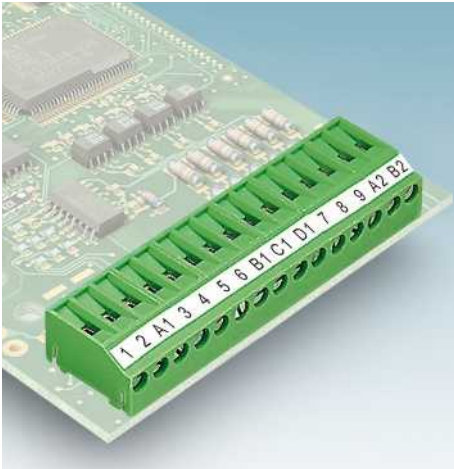


Marker with strip height of 9.5 mm and 4.2 mm, continuous

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1		
Number of individual labels per strip		10		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Marking foil for zack marker strip, unprinted, 1 roll = 40 m continuous, strip height: 9.5 mm	transparent	TML (EX9,5)R TR	0816634	1
Marking foil for zack marker strip, flat, unprinted, 1 roll = 40 m continuous, strip height: 4.2 mm	transparent	TML (EX4,2)R TR	0816715	1
Marking foil for zack marker strip, unprinted, 1 roll = 30 m continuous, strip height: 7 mm	white	TML (EX7)R	0830837	1
Marking foil for zack marker strip, unprinted, 1 roll = 30 m continuous, strip height: 7 mm	silver	TML (EX7)R SR	0830838	1

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove



– The TML marking range provides self-adhesive marker strips for marking products that do not have a marker groove



Thermal transfer for rolls



Unmarked

General data

Can be marked using

Number of individual labels per strip

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1

1

Polyester

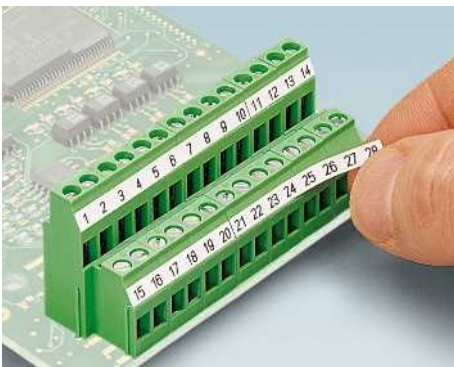
-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

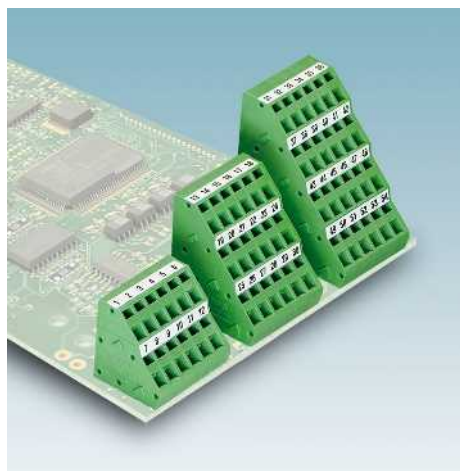
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted				
1 roll = 2500 strips, lettering field size: 104 x 2.8 mm	white	TML (104X2,8)R	0801832	1
1 roll = 2500 strips, lettering field size: 104 x 3.8 mm	white	TML (104X3,8)R	0801833	1
1 roll = 2500 strips, lettering field size: 104 x 5 mm	white	TML (104X5)R	0801834	1
1 roll = 1500 strips, lettering field size: 104 x 10 mm	white	TML (104X10)R	0801835	1



Self-adhesive marker strips for terminal blocks without marker groove, continuous



Thermal transfer for rolls



Unmarked

- The TML marking range provides self-adhesive marker strips for marking products that do not have a marker groove
- The marker strips are automatically perforated or cut to the required length during the printing process

General data

Can be marked using	
Number of individual labels per strip	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

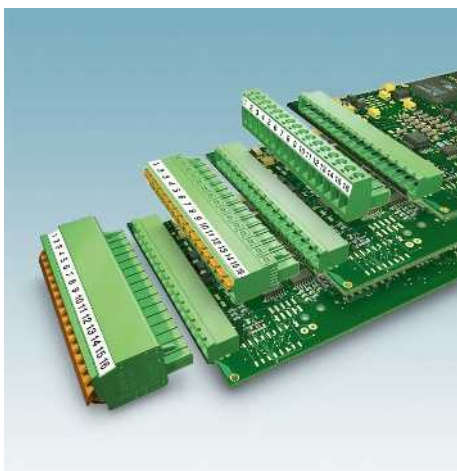
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1
 14
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous				
1 roll = 30 m continuous, strip height: 2.8 mm	white	TML (EX2,8)R	0801836	1
1 roll = 30 m continuous, strip height: 3.8 mm	white	TML (EX3,8)R	0801837	1
1 roll = 30 m continuous, strip height: 5 mm	white	TML (EX5)R	0801838	1
	white	TML (EX7)R	0830837	1
1 roll = 30 m continuous, strip height: 10 mm	white	TML (EX10)R	0801839	1

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove



- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- The markers that are supplied on rolls can be quickly and cost-effectively marked using THERMOMARK printers
- The markers that are supplied as cards can be easily marked using standard laser printers
- Ideal for marking COMBICON connectors
- Marking service: Phoenix Contact can custom-mark SK markers in accordance with your requirements

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Markers marked up to 5.08 mm pitch

General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 99, enough to label 140 terminal blocks

white

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 99, enough to label 140 terminal blocks

white

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 99, enough to label 140 terminal blocks

white

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten marked, e.g., 1 - 10, 11 - 20, and so on up to 91 - 100, enough to label 140 terminal blocks

white

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm

white

Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m

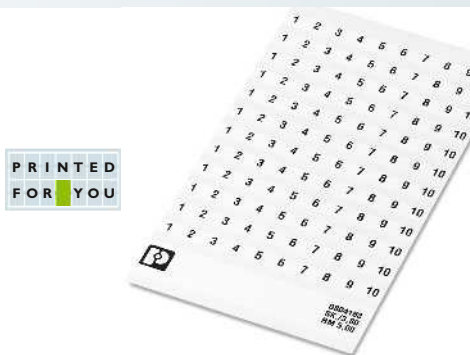
white

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 2,54/2,8:FORTL.ZAHLEN	0804853	10
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10
SK 3,81/2,8:FORTL.ZAHLEN	0804109	10
SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1



Self-adhesive marker strips for terminal blocks without a marker groove



Markers marked up to 7.62 mm pitch

General data		Technical data		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	SK 5/3,8:FORTL.ZAHLEN	0804183	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	SK 6,2/3,8:FORTL.ZAHLEN	0804374	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	SK 7,5/3,8:FORTL.ZAHLEN	0804455	10
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 12 identical sets of ten marked, for example, with 1-10, 11-20 etc. up to 91-100, sufficient for 120 terminal blocks				
	white	SK 7,62/3,8:FORTL.ZAHLEN	0804549	10
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm				
	white	SK U/3,8 WH:UNBEDRUCKT	0803906	10
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m				
	white	SK 3,8 WH:REEL	0805218	1

Terminal marking

Self-adhesive marker strips for terminal blocks without a marker groove

- The SK range of self-adhesive labels can be used to label products that do not feature a marker groove
- Marking service: Phoenix Contact can custom-mark all SK markers according to your requirements

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Markers marked with 7.5 mm pitch

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Markers marked with 7.62 mm pitch

General data		Technical data			Technical data		
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Marker card, printed horizontally , self-adhesive, 10-section marker strip, 10 identical sets of ten marked 1-10, 11-20 etc. up to 91-100, for example, sufficient for 100 terminal blocks							
	white	SK 7,5/5:FORTL.ZAHLEN	0804468	10	SK 7,62/5:FORTL.ZAHLEN	0804552	10
Marker card, unprinted , DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
	white	SK U/5,0 WH:UNBEDRUCKT	0803922	10	SK U/5,0 WH:UNBEDRUCKT	0803922	10
Self-adhesive marker strips, unprinted, continuous , material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
	white	SK 5,0 WH:REEL	0805221	1	SK 5,0 WH:REEL	0805221	1

Self-adhesive marker strips for terminal blocks without a marker groove



Markers with a strip length of up to 1000 mm

Markers with a strip length of up to 185 mm

General data		Technical data			Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1 • THERMOMARK ROLL X1			CMS-P1-PLOTTER • Office printing systems		
Material		Polyester			Polyester		
Temperature range [°C]		-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 14 strips, strip height of 2.8 mm, 1 roll = 90 m							
white		SK 2,8 WH:REEL	0805205	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m							
white		SK 3,8 WH:REEL	0805218	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m							
white		SK 5,0 WH:REEL	0805221	1			
Self-adhesive marker strips, unprinted, continuous, material off the roll, for marking with thermal transfer printer, can be separated using cutter, pitch as desired, strip length of up to 1000 mm, 7 strips, strip height of 10 mm, 1 roll = 90 m							
white		SK 10,0 WH:REEL	0812188	1			
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 perforated marker strips, strip length of 185 mm							
white					SK U/2,8 WH:UNBEDRUCKT	0803883	10
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 perforated marker strips, strip length of 185 mm							
white					SK U/3,8 WH:UNBEDRUCKT	0803906	10
Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 perforated marker strips, strip length of 185 mm							
white					SK U/5,0 WH:UNBEDRUCKT	0803922	10

Terminal marking

UniCard group marking for snapping into CLIPFIX 35-5 end bracket

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Unmarked or marked according to customer specifications

- Group marking which saves space
- Large marking option
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the TOPMARK LASER, BLUEMARK..., and THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard, can be marked with THERMOMARK CARD and BLUEMARK, 24-section, 8 individual labels per strip, lettering field size: 30 x 5 mm	white yellow

Type	Order No.	Pcs. / Pkt.
UCT-EM (30X5)	0801505	10
UCT-EM (30X5) YE	0830340	10

End bracket, for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-EM (30X5)

Accessories

Type	Order No.	Pcs. / Pkt.
CLIPFIX 35-5	3022276	50
THERMOMARK CARD-UCT-MAG10	0801737	1

Marking of terminal block groups for snapping into tall marker grooves

- Space-saving group marking directly on the terminal block
- Fits all terminal blocks with design width of 3.5 mm and a tall center marker groove
- Large-surface marking with labels or manually using B-STIFT or X-PEN



3.5 mm and 5.2 mm pitch



29 mm pitch

General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Free from silicone and halogen

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Free from silicone and halogen

Technical data

Material	PA / PC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100
Components	Free from silicone and halogen

Description

Group marking label, can be snapped into terminal center, can be marked with an EML (24X3)R or EML (25,4X12,7)R... label or manually with B-STIFT or X-PEN, in the foot part with ZB 3,5

Group marking label, can be snapped into terminal center, can be marked with an EML (24X4)R or EML (25,4X12,7)R label or manually with B-STIFT or X-PEN, in the foot part with ZB 5, UC-TM 5

Group marking label, can be snapped into terminal center, can be marked with ESL 26 x 6 or EMT (25 x 6) R insert strips, in foot part with zack marker strip ZB, length: 29 mm

gray

Ordering data

Type	Order No.	Pcs. / Pkt.
GBS 3,5-25X3,5	0830290	100
GBS 3,5-25X12	0830292	100
GBS 5-25X5	0829126	100
GBS 5-25X12	0810588	100
GBS-ZB/26X6	0809298	50

Ordering data

Type	Order No.	Pcs. / Pkt.
GBS-ZB/26X6	0809298	50

Labels for thermal transfer printer

2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white

Insert strip for laser printer, perforated, for terminal strip marker KLM, marking field: 26 x 6 mm

Lettering field size: 26 x 6 mm white

Insert labels for thermal transfer printer, halogen-free

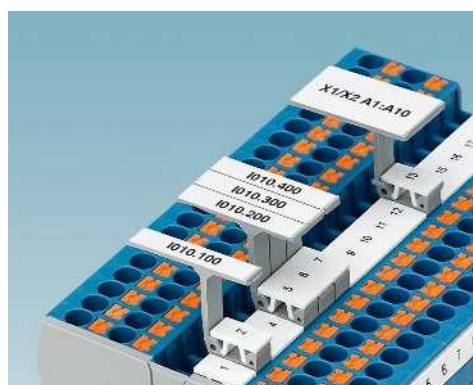
Lettering field size: 25 x 6 mm, 5000 labels per roll white

Accessories

EML (24X3)R	0830291	1
EML (25,4X12,7)R	0816825	1
EML (24X4)R	0800061	1

Accessories

ESL 26X6	0808105	10
EMT (25X6)R	0817264	1



Terminal marking

Marker carrier for STP ... multi-level terminal blocks



STP ...

- The marking areas of wired multiple-level terminal blocks are increased in size using the marker carriers
- Depending on version, the marker carriers are placed in the receivers on the upper terminal block level

STP ...-ZB

- The marker carriers can for example snap into the center marking groove of ST... spring-cage terminal blocks and double the marking area; see figure below

CARRIER-TM 300

- Can be snapped into all terminal blocks in the CLIPLINE complete system that have a lateral flat marker groove
- For accommodating ZB ..., UC-TM ... or UCT-TM ... terminal markers which increases the marking area

CARRIER-TMD 300

- Double-row snap-in marker adapter for accommodating two ZB ... or UC-TM ... and UCT-TM ... terminal markers which doubles the marking area



General data

Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Technical data

PA
V2
-40 ... 100
Free from silicone and halogen

Description	Color
-------------	-------

Double marker carrier, can be snapped into push-in double-level terminal blocks PTTB 1,5/S, can be marked with ZB 3,5 or ZBF 3,5

gray

Triple marker carrier, can be snapped into the push-in three-level terminal block PT 1,5/S-3..., can be marked with ZB 3,5 or ZBF 3,5

gray

Double marker carrier, can be snapped into the double-level terminal blocks STTB 1,5, PTTB 1,5, can be marked with UC-TM 4, ZB 4 or UC-TMF 4, ZBF 4

gray

Double marker carrier, can be snapped into STTB 2,5, STTB 4, PTTB 2,5, PTTB 4 double-level terminal blocks, can be marked with UC-TM 5, ZB 5 or UC-TMF 5, ZBF 5

gray

Three-compartment marker carrier, can be snapped into ST 2,5-3... and PT 2,5-3... three-level terminal blocks, can be marked with UC-TMF 5 and ZBF 5 or ...TM 5 and ZB 5

gray

Double marker carrier, snaps into double-level fast connection terminal blocks, QTTCB ... and QTTCBS, can be marked with ZB 5 and ZBF 5

gray

Double marker carrier, snaps into all terminal blocks with a width of 4.2 mm and a zack marker strip center groove, can be marked with ZB 4 or ZBF 4

gray

Double marker carrier, can be snapped into all terminal blocks with a width of 5.2 mm or above and a zack marker strip center groove, can be marked with ZB 5 or ZBF 5

gray

Marker adapter, 300 mm long, can be snapped into the lateral groove on modular terminal blocks, designed to accommodate ZB ... or UC-TM ...

gray

Marker adapter, double row, 300 mm long, can be snapped into the center groove on modular terminal blocks, designed to accommodate two ZB ... or UC-TM ...

gray

Marker adapters, such as the CARRIER-TM 300; marking area at an angle to the top of the terminal block

gray

Ordering data

Type	Order No.	Pcs. / Pkt.
STP 3,5-2	0830131	100
STP 3,5-3	0830132	100
STP 4-2	0810575	100
STP 5-2	0800967	100
STP 5-3	0810562	100
STP 5-2/S	0800970	100
STP 4-2-ZB	3038613	100
STP 5-2-ZB	3037643	100
CARRIER-TM 300	0828282	25
CARRIER-TMD 300	0828693	25
CARRIER-TMH 300	0830670	25

WS... warning labels



- Warning labels and warning covers serve to cover and identify mains terminal blocks
- This prevents accidental actuation of the terminal points
- The warning labels snap into the screw shafts of the relevant terminal
- Can be isolated lengthwise and crosswise



Warning labels for terminals from the UT ... and ST ... series

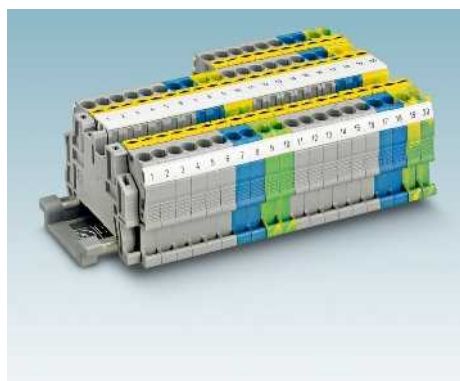
General data	
Material	PA
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Technical data	
Material	PA
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Description	Color
Warning label, for UT... series	
5.2 mm wide	yellow
6.2 mm wide	yellow
8.2 mm wide	yellow
10.2 mm wide	yellow
12 mm wide	yellow
16 mm wide	yellow
Warning cover, for ST... series	
4.2 mm wide	yellow
5.2 mm wide	yellow
6.2 mm wide	yellow
8.2 mm wide	yellow
10.2 mm wide	yellow

Ordering data		
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Type	Order No.	Pcs. / Pkt.
WS UT 2,5	3047923	10
WS UT 4	3047332	10
WS UT 6	3047345	10
WS UT 10	3047361	10
WS UT 16	3047374	10
WS UT 35	3047387	10
WST 1,5	3030958	50
WST 2,5	3030941	50
WST 4	3030954	50
WST 6	3030967	10
WST 10/35	3030006	25



Terminal marking

Terminal marking for Phoenix Contact



Large terminal block markers for central and side marking


UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16
see page 56 onwards						
ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16
see page 62 onwards						
UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16
see page 76 onwards						
TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R
see page 84 onwards						

Pitch	4	5	6	8	10	12	16
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Screw terminal blocks

	Pitch	4	5	6	8	10	12	16
UT 2,5..., UTTB 2,5..., UTN 2,5..., MUT 2,5...	5							
UT 4..., UTTB 4..., UTME(D) 4..., UTN 4..., USST 4...	6							
UT 6..., UTME(D) 6..., UTN 6..., USST 6...	8							
UT 10..., UTN 10..., USST 10...	10							
UT 16..., UTI 16...	12							
UT 35	16							
UK 1,5 N..., USLKG 1,5 N	4							
UK 2,5 N..., USLKG 2,5 N, UK 3 N..., USLKG 3, UKK(B) 3..., UDK 3..., MTK(D)...	5							
UK 5 N..., USLKG 5 N, UDK 4..., UKK(B) 5, UDMTK(B) 5..., UKN 2,5..., UKN 5..., PIK 4..., SSK 0525...	6							
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK..., UK 6-T..., SSK 110	8							
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10..., SK 116...	10							
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12							
U(I)K 35..., U(I)SLKG 35, UIKN 35..., SSK 135...	15							
UKH..., USLKG 50/95, USLKG 50/70/95	> 16							
DIK(D) 1,5..., DOK(D) 1,5..., VIOK 1,5..., DLK(B) 2,5..., SLKK 5...	6							
UVKB 4..., UHK 4..., USK 4..., UK 4..., UKK 4..., VBST 4...	6							
UK 5-HESI..., UKK 5-HESI..., UK-SI..., UK 6-FSI..., UK 10-DREHSI...	8							
UK 6,3-HESI..., USIG...	10							
MT 1,5..., MTTB 1,5...	4							
MBK 6..., MSLKG 6	8							
DFK 4...	6							
DFK 5...	9.5							
UW(V) 4...	8							
UW(V) 10.../16.../25...	≥ 10							
HDFK(V) 50..., HDFK(V) 95...,	> 18							

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label



Small terminal block markers for central and side marking

		UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
		see page 58 onwards							81
		ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
		see page 70 onwards							
		UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
		see page 78 onwards							
		TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
		see page 84 onwards							
Pitch		4	5	6	8	10	12	16	
Screw terminal blocks									
UT 2,5..., UTTB 2,5..., UTN 2,5..., MUT 2,5..., UTI 2,5...	5								
UT 4..., UTTB 4..., UTME(D) 4..., UTN 4..., USST 4...	6								
UT 6..., UTME(D) 6..., UTN 6..., USST 6...	8								
UT 10..., UTN 10..., USST 10...	10								
UT 16..., UTI 16...	12								
UT 35	16								
UK 1,5 N..., USLKG 1,5 N	4								
UK 2,5 N..., USLKG 2,5 N, UK 3 N..., USLKG 3, UKK(B) 3..., UDK 3..., MTK(D)...	5								
UK 5 N..., USLKG 5 N, UDK 4..., UKK(B) 5, UD-MTK(B) 5..., UKN 2,5..., UKN 5..., PIK 4..., SSK 0525	6								
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK..., UK 6-T, SSK 110	8								
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10..., SSK 116	10								
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12								
U(I)K 35..., U(I)SLKG 35, UIKN 35..., SSK 135	15								
UKH..., USLKG 50/95, USLKG 50/70/95	> 16								
DIK(D) 1,5..., DOK(D) 1,5..., VIOK 1,5..., DLK(B) 2,5..., SLKK 5...	6								
UVKB 4..., UHK 4..., USK 4..., UK 4..., UKK 4..., VBST 4...	6								
UK 5-HESI..., UKK 5-HESI..., UK-SI..., UK 6-FSI..., UK 10-DREHSI...	8								
UK 6,3-HESI..., UK 10,3 HESI..., USIG...	10								
MT 1,5..., MTTB 1,5...	4								
MBK 6..., MSLKG 6	8								
DFK 4...	6								
DFK 5...	9.5								
UW(V) 4...	8								
UW(V) 10.../16.../25...	≥ 10								
HDFK(V) 50..., HDFK(V) 95...	> 18								

Terminal marking

Terminal marking for Phoenix Contact



Large terminal block markers for central marking

	UC-TM 4	UC-TM 5	UC-TM 6		UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	
	see page 56 onwards								
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 7,62	ZB 8	ZB 10	ZB 12	ZB 16	
	see page 62 onwards								
UCT-TM 3,5	UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 7,62	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16	
	see page 76 onwards								
	TMT 4 R	TMT 5 R	TMT 6 R		TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards								
Pitch	3.5	4	5	6	7.62	8	10	12	16

Spring-cage terminal blocks

Terminal Block	Pitch	3.5	4	5	6	7.62	8	10	12	16
ST 1,5/S-QUATTRO	3.5	Dark Green								
ST 1,5...	4	Light Green	Dark Green							
ST 2,5... (except ST 2,5-3L)	5	Light Green	Light Green	Dark Green						
ST 4..., STTB 4...	6	Light Green	Light Green	Light Green	Dark Green					
ST 6..., STME(D) 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
ST 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green		
ST 16...	12	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green	
ST 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green
ST 4-HESI (6,3 x 32), ST 4-FSI...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
STU 2,5...	5	Light Green	Light Green	Dark Green						
STU 4..., STTBU 4...	6	Light Green	Light Green	Light Green	Dark Green					
STU 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
STU 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green
STS 2,5..., STTBS 2,5...	5	Light Green	Light Green	Dark Green						
STS 4..., STTBS 4...	6	Light Green	Light Green	Light Green	Dark Green					
STS 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
STI 2,5..., STN 2,5...	5	Light Green	Light Green	Dark Green						
STI 4..., STN 4...	6	Light Green	Light Green	Light Green	Dark Green					
STI 10..., STN 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green		
STI 16..., STN 16...	12	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green	
STN 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green
SRTK 6..., SGSK 6..., SRDK 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			
ZRV...	7.62	Light Green	Light Green	Light Green	Dark Green					
ZRTK..., ZGSK..., ZRDK...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Dark Green			

The pitch of the terminal block corresponds to the width of the label

The pitch of the terminal block is greater than the width of the label



Small terminal block markers for central and side marking

	UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
	see page 58 onwards							81
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
	see page 70 onwards							
UCT-TMF 3,5	UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
	see page 78 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards							
Pitch	3.5	4	5	6	8	10	12	16

Spring-cage terminal blocks

Model	Pitch	3.5	4	5	6	8	10	12	16
ST 1,5/S-QUATTRO	3.5	■							■
ST 1,5..., STTB 1,5...	4	■	■						■
ST 2,5..., STTB 2,5..., ST 2,5-3..., STIO...	5	■	■	■					■
ST 4..., STTB 4...	6	■	■	■	■				■
ST 6..., STME(D) 6...	8	■	■	■	■	■			■
ST 10...	10	■	■	■	■	■	■		■
ST 16...	12	■	■	■	■	■	■	■	■
ST 35...	16	■	■	■	■	■	■	■	■
ST 4-HESI (6,3 x 32), ST 4-FSI...	8	■	■	■	■	■			■
STU 2,5...	5	■	■	■					■
STU 4..., STTBU 4...	6	■	■	■	■				■
STU 10...	10	■	■	■	■	■			■
STU 35...	16	■	■	■	■	■	■	■	■
STS 2,5..., STTBS 2,5...	5	■	■	■					■
STS 4..., STTBS 4...	6	■	■	■	■				■
STS 6...	8	■	■	■	■	■			■
STI 2,5..., STN 2,5...	5	■	■	■					■
STI 4..., STN 4...	6	■	■	■	■				■
STI 10..., STN 10...	10	■	■	■	■	■	■		■
STI 16..., STN 16...	12	■	■	■	■	■	■	■	■
STN 35...	16	■	■	■	■	■	■	■	■
SRTK 6..., SGSK 6..., SRDK 6...	8	■	■	■	■	■			■
ZRV...	7.62	■	■	■	■				■
ZRTK..., ZGSK..., ZRDK...	8	■	■	■	■	■			■
ZFK 6-DREHSI...	12	■	■	■	■	■			■
ZFKK 2,5...	5	■	■	■					■
ZDMTK 2,5...	6	■	■	■	■				■
ZPV...	5	■	■	■					■
MZFKK 1,5...	5	■	■	■					■
MSB(V) 2,5.../MSDB(V) 2,5...	5/10	■	■	■					■

Terminal marking

Terminal marking for Phoenix Contact



Large terminal block markers for central marking

	UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	US-TM 100
	see page 56 onwards							81
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16	
	see page 62 onwards							
UCT-TM 3,5	UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16	
	see page 76 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards							
Pitch	3.5	4	5	6	8	10	12	16

Push-in connection terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
PT 1,5/S..., PTTB 1,5/S..., PTS 1,5/S..., PTTBS 1,5/S...	3.5	■							■
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5..., PTU 2,5...	5	■	■	■					■
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4..., PTU 4...	6	■	■	■	■				■
PT 6..., PTME 6..., PTI 6..., PTN 6...	8	■	■	■	■	■			■
PT 10...	10	■	■	■	■	■	■		■
PT 16...	12	■	■	■	■	■	■	■	■
PTPOWER...	25	■	■	■	■	■	■	■	■

Fast connection terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
QTC(U)(S) 1,5...,	5	■	■	■					
QTC(U)(S) 2,5...,	6	■	■	■	■				

Bolt connection terminal blocks

Terminal Block	Pitch	3.5	4	5	6	8	10	12	16
OTTA 2,5...	9	■	■	■	■	■			
OTTA 6...	11	■	■	■	■	■			
OTTA 25...	18	■	■	■	■	■	■		
RT(O) 3..., RBO...	12	■	■	■	■	■	■	■	
RT(O) 5...	16	■	■	■	■	■	■	■	■
RT(O) 8...	20	■	■	■	■	■	■	■	■
HV M.../1, HV M.../2	> 13	■	■	■	■	■	■	■	
UHV 25- UHV 240	> 26	■	■	■	■	■	■	■	■

■ The pitch of the terminal block corresponds to the width of the label

■ The pitch of the terminal block is greater than the width of the label



Small terminal block markers for central and side marking

	UC-TMF 4	UC-TMF 5	UC-TMF 6	UC-TMF 8	UC-TMF 10	UC-TMF 12	UC-TMF 16	US-TMF 100
	see page 58 onwards							81
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
	see page 70 onwards							
UCT-TMF 3,5	UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 16	
	see page 78 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 84 onwards							
Pitch	3.5	4	5	6	8	10	12	16

Push-in connection terminal blocks

PT 1,5/S..., PTTB 1,5/S..., PTIO..., PTS 1,5/S..., PTTBS 1,5/S, MPT 1,5/S...	3.5								
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5..., PTU 2,5..., MPT 2,5...	5								
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4..., PTU 4	6								
PT 6..., PTME 6..., PTI 6..., PTN 6...	8								
PT 10...	10								
PT 16...	12								
PTPOWER...	25								

Fast connection terminal blocks

QTC(U)(S) 1,5..., QTTCB(U (S) 1,5...	5								
QTC(U)(S) 2,5...,	6								

Bolt connection terminal blocks

OTTA 2,5...	9								
OTTA 6...	11								
OTTA 25...	18								
RT(O) 3...	12								
RT(O) 5...	16								
RT(O) 8...	20								
HV M.../1, HV M.../2	> 13								
UHV 25- UHV 240	> 26								

COMBI plugs and couplings

UPBV 2,5..., SP(V) 2,5..., SP-H 2,5 ..., SP(D)B 2,5..., SC 2,5...	5								
UP 4..., UPBV 4...	5								
SP 4..., SC 4...	6								
PP-H 1,5/S..., PPC 1,5/S...	3.5								
PP-H 2,5..., QP 1,5...	5								
UP 6...	8								
PP-H 4...	6								
PP-H 6..., PPC 6...	8								

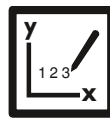
Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

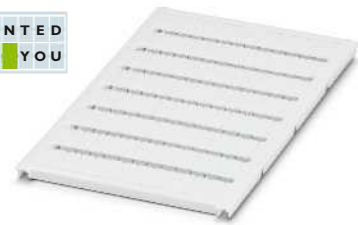
Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm



- The UC1-TM ... UniCard marking range includes markers for Weidmüller, Conta-Clip, and Klemsan terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
UniCard , for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white red orange yellow blue green
UniCard , for marking terminal blocks from other manufacturers, offset foot, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard , for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white red orange yellow blue green
UniCard , for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white red orange yellow blue green

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC1-TM 5	0821784	10
UC1-TM 5 RD	0828185	10
UC1-TM 5 OG	0828186	10
UC1-TM 5 YE	0828187	10
UC1-TM 5 BU	0828188	10
UC1-TM 5 GN	0828189	10
UC1U-TM 5	0821302	10
UC1-TM 6	0821247	10
UC1-TM 6 RD	0828190	10
UC1-TM 6 OG	0828191	10
UC1-TM 6 YE	0828192	10
UC1-TM 6 BU	0828193	10
UC1-TM 6 GN	0828194	10
UC1-TM 8	0821739	10
UC1-TM 8 RD	0828195	10
UC1-TM 8 OG	0828196	10
UC1-TM 8 YE	0828197	10
UC1-TM 8 BU	0828198	10
UC1-TM 8 GN	0828199	10

Magazine, for CMS-P1-PLOTTER	
P1 UC-MAG 5	5146118

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 5	5146118	1

UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be marked using:



UV LED technology



Plotter

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Markers for terminal block widths up to 8 mm

- The UC1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (entrelec), Conta-Clip, and Klemmsan terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description

UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm

white
red
orange
yellow
blue
green

Ordering data

Type	Order No.	Pcs. / Pkt.
UC1-TMF 4	0821360	10
UC1-TMF 4 RD	0828200	10
UC1-TMF 4 OG	0828201	10
UC1-TMF 4 YE	0828202	10
UC1-TMF 4 BU	0828203	10
UC1-TMF 4 GN	0828204	10

UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm

white
red
orange
yellow
blue
green

UC1-TMF 5	0821425	10
UC1-TMF 5 RD	0828205	10
UC1-TMF 5 OG	0828206	10
UC1-TMF 5 YE	0828127	10
UC1-TMF 5 BU	0828207	10
UC1-TMF 5 GN	0828208	10

UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm

white
red
orange
yellow
blue
green

UC1-TMF 6	0821483	10
UC1-TMF 6 RD	0828209	10
UC1-TMF 6 OG	0828210	10
UC1-TMF 6 YE	0828211	10
UC1-TMF 6 BU	0828212	10
UC1-TMF 6 GN	0828213	10

UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm

white
red
orange
yellow
blue
green

UC1-TMF 8	0821548	10
UC1-TMF 8 RD	0828214	10
UC1-TMF 8 OG	0828215	10
UC1-TMF 8 YE	0828216	10
UC1-TMF 8 BU	0828217	10
UC1-TMF 8 GN	0828218	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 4	5146105	1
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Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm

- The UC2-TM ... UniCard marking range includes markers for Wago terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm	white
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

Ordering data

Type	Order No.	Pcs. / Pkt.
UC2-TM 4	0821713	10
UC2-TM 5	0821690	10
UC2-TM 6	0821674	10
UC2-TM 8	0821755	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 5	5146118	1
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UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be marked using:



UV LED technology



Plotter

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Markers for terminal block widths up to 8 mm

- The UC2F-TM ... UniCard marking range includes markers for ABB (entrelec) terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 120-section, 15 individual labels per strip, for a terminal block width of 4 mm	white
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2F-TM 4	0822178	10
UC2F-TM 5	0822181	10
UC2F-TM 6	0822194	10
UC2F-TM 8	0822204	10

Accessories	
Magazine, for CMS-P1-PLOTTER	

P1 UC-MAG 4	5146105	1
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Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

Can be marked using:



UV LED technology



Plotter



Markers for terminal block widths up to 8 mm



- The UC3-TM ... UniCard marking range includes markers for Wieland and Legrand terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 96-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 80-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
UniCard, for marking terminal blocks from other manufacturers, 64-section, 8 individual labels per strip, for a terminal block width of 8 mm	white

Ordering data

Type	Order No.	Pcs. / Pkt.
UC3-TM 5	0822369	10
UC3-TM 6	0822385	10
UC3-TM 8	0822408	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 1	5146079	1
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UniCard marking for terminal blocks from other manufacturers with tall marker groove

- The UCT1-TM ... UniCard marking range includes markers for Weidmüller, Conta-Clip, and Klemmsan terminal blocks
- The UCT1-TMF ... UniCard marking range includes markers for Weidmüller, Wago, ABB (entrelec), Contaclip, and Klemmsan terminal blocks
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements



Markers for a terminal block width of 5/6 mm



Flat marker for a terminal block width of 5/6 mm

Notes:
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using

Material
Inflammability class according to UL 94
Temperature range [°C]
Wipe resistance
Components

Technical data	
THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED	
PC	
V0	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Technical data	
THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED	
PC	
V0	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniCard , for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
	red
	orange
	yellow
	blue
	green
UniCard , for marking terminal blocks from other manufacturers such as UCT1-TM 5, but with offset foot	white
UniCard , for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
	red
	orange
	yellow
	blue
	green
UniCard , for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm	white
	red
	orange
	yellow
	blue
	green
UniCard , for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm	white
	red
	orange
	yellow
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT1-TM 5	0829482	10
UCT1-TM 5 RD	0829226	10
UCT1-TM 5 OG	0829227	10
UCT1-TM 5 YE	0829228	10
UCT1-TM 5 BU	0829229	10
UCT1-TM 5 GN	0829230	10
UCT1U-TM 5	0803204	10
UCT1-TM 6	0829483	10
UCT1-TM 6 RD	0829232	10
UCT1-TM 6 OG	0829233	10
UCT1-TM 6 YE	0829234	10
UCT1-TM 6 BU	0829235	10
UCT1-TM 6 GN	0829236	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT1-TMF 5	0829237	10
UCT1-TMF 5 RD	0829238	10
UCT1-TMF 5 OG	0829239	10
UCT1-TMF 5 YE	0829240	10
UCT1-TMF 5 BU	0829241	10
UCT1-TMF 5 GN	0829242	10
UCT1-TMF 6	0829243	10
UCT1-TMF 6 RD	0829244	10
UCT1-TMF 6 OG	0829245	10
UCT1-TMF 6 YE	0829246	10
UCT1-TMF 6 BU	0829247	10
UCT1-TMF 6 GN	0829248	10

Accessories	
Magazine , for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10) Plastic magazine , for THERMOMARK CARD ..., for accommodating: UCT1-TMF...	

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG1	5146480	1

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG4	5146614	1

Terminal marking

UniCard marking for terminal blocks from other manufacturers with tall marker groove

- The UCT2-TM 5/6 UniCard markers are suitable for Wago terminal blocks
- The UCT3-TM ... UniCard marking range includes markers for Wieland and Legrand terminal blocks

Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

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Markers for terminal block widths of 5 to 6 mm

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Markers for terminal block widths of 5 to 6 mm

General data		Technical data			Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER			THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Material		PC			PC		
Inflammability class according to UL 94		V0			V0		
Temperature range		-40 ... 120			-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard , for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for terminal block widths of 5 and 6 mm	white	UCT2-TM 5/6	0829249	10			
UniCard , for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5 mm	white				UCT3-TM 5	0829251	10
UniCard , for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6 mm	white				UCT3-TM 6	0829252	10
		Accessories			Accessories		
Plastic magazine, for THERMOMARK CARD ..., for accommodating: UCT2-TM ...		THERMOMARK CARD-UCT-MAG5	5146615	1			
Magazine, for THERMOMARK CARD ..., for accommodating: UCT3-TM ...					THERMOMARK CARD-UCT-MAG6	5146616	1

UniCard marking for terminal blocks from other manufacturers with tall marker groove



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths of 5/6 mm

- The UCT5-TM ... UniCard marking range includes markers for Cabur terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, BLUEMARK..., and the THERMOMARK CARD
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 66-section, 11 individual labels per strip, for a terminal block width of 5 mm	white
UniCard, for marking terminal blocks from other manufacturers, 54-section, 9 individual labels per strip, for a terminal block width of 6 mm	white

Magazine, for THERMOMARK CARD ... for accommodating UCT6M-TM ...

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
 PC
 V0
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT5-TM 5	0828750	10
UCT5-TM 6	0828752	10

Accessories

THERMOMARK CARD-UCT-MAG23	0830808	1
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Notes:
 An overview of terminal blocks that can be marked can be found on page 126 onwards.

Terminal marking

UniCard marking for terminal blocks from other manufacturers with a flat marker groove



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths up to 8.2 mm

- The UniCard UCT6M ... marking range includes markers for ABB terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily.
- The multi-section marking strips are easy to fit and can be easily separated if required
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone, halogen, and cadmium

Ordering data

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white

Type	Order No.	Pcs. / Pkt.
UCT6M-TM 5	0830756	10
UCT6M-TM 6	0830757	10
UCT6M-TM 8	0830758	10

Accessories

Magazine, for THERMOMARK CARD ... for accommodating UCT6M-TM ...
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THERMOMARK CARD-UCT-MAG23	0830808	1
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UniCard marking for terminal blocks from other manufacturers with tall marker groove



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for terminal block widths up to 8.2 mm

- The UniCard UCT6R-TM ... marking range includes markers for entrelec terminal blocks
- The markers, which are supplied in uniform sheets, can be marked quickly, precisely, and easily.
- The multi-section marking strips are easy to fit and can be easily separated if required
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniCard, for marking terminal blocks from other manufacturers, 72-section, 12 individual labels per strip, for a terminal block width of 5.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 60-section, 10 individual labels per strip, for a terminal block width of 6.2 mm	white
UniCard, for marking terminal blocks from other manufacturers, 42-section, 7 individual labels per strip, for a terminal block width of 8.2 mm	white

Magazine, for THERMOMARK CARD ... for accommodating UCT6R-TM ...

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT6R-TM 5	0830753	10
UCT6R-TM 6	0830754	10
UCT6R-TM 8	0830755	10

Accessories

THERMOMARK CARD-UCT-MAG24	0830809	1
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Terminal marking

UniSheet marking for terminals from other manufacturers

Can be marked using:



Thermal transfer for sheets and cards

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12 strips with a strip width of 104 mm

- The US2-TM 100 UniSheet markers are suitable for Wago terminal blocks
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The cards provide space for including function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

Notes:
An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data	
Can be marked using	
Number of individual labels	12
Number of individual labels per strip	1
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 80 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Technical data	
THERMOMARK CARD	
12	
1	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip length of 104 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US2-TM 100	0829268	10

Accessories	
Magazine, for THERMOMARK CARD..., for accommodating all US-materials	

Accessories		
	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

Marker strips, continuous, for terminal blocks from other manufacturers

- The TMT2 . . . markers are suitable for Wago terminal blocks
- The marker strips are automatically perforated and cut to the desired length
- The markers in the form of continuous rolls can be printed quickly, easily, and precisely with the THERMOMARK ROLL... printers

Can be marked using:



Thermal transfer for rolls



Marker with strip height of 10.8 mm, continuous

Notes:

An overview of terminal blocks that can be marked can be found on page 126 onwards.

General data

Can be marked using	
Number of individual labels	
Number of individual labels per strip	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2
1
1
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, for marking terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip height of 10.8 mm, continuous				
Strip height: 10.8 mm	white	TMT2 (EX11)R	0802683	1

Terminal marking

UM marking for terminals from other manufacturers, strips

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove with a pitch of 3.5 to 6 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, and Klemсан
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK ... and THERMOMARK CARD ...
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high level of positional accuracy

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemсан, unprinted, 34-section, pitch: 3.5 mm, label height: 12 mm	white	UM1-TM (3,5X12)	0830925	10
	red	UM1-TM (3,5X12) RD	0833020	10
	orange	UM1-TM (3,5X12) OG	0833021	10
	yellow	UM1-TM (3,5X12) YE	0833022	10
	blue	UM1-TM (3,5X12) BU	0833023	10
	green	UM1-TM (3,5X12) GN	0833024	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemсан, unprinted, 24-section, pitch: 5 mm, label height: 10 mm	white	UM1-TM (5X10)	0830905	10
	red	UM1-TM (5X10) RD	0833025	10
	orange	UM1-TM (5X10) OG	0833026	10
	yellow	UM1-TM (5X10) YE	0833027	10
	blue	UM1-TM (5X10) BU	0833028	10
	green	UM1-TM (5X10) GN	0833029	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemсан, unprinted, 24-section, pitch: 5 mm, label height: 12 mm	white	UM1-TM (5X12)	0830912	10
	red	UM1-TM (5X12) RD	0833035	10
	orange	UM1-TM (5X12) OG	0833036	10
	yellow	UM1-TM (5X12) YE	0833037	10
	blue	UM1-TM (5X12) BU	0833038	10
	green	UM1-TM (5X12) GN	0833039	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemсан, unprinted, 20-section, pitch: 6 mm, label height: 10 mm	white	UM1-TM (6X10)	0830903	10
	red	UM1-TM (6X10) RD	0833040	10
	orange	UM1-TM (6X10) OG	0833041	10
	yellow	UM1-TM (6X10) YE	0833042	10
	blue	UM1-TM (6X10) BU	0833043	10
	green	UM1-TM (6X10) GN	0833044	10

Accessories

Magazine, for THERMOMARK CARD ... For accommodating UM1-TM ..., UM5-TM...	TMP-UM-MAG1	0831200	1
Magazine for the BLUEMARK printer, for accommodating UM materials	BLUEMARK MAG UM-TM	0803335	1

UM marking for terminals from other manufacturers, strips

new



For a tall marker groove with a pitch of 6 to 12 mm

Technical data

THERMOMARK CARD • BLUEMARK CLED
 PC
 V2
 -40 ... 120 [°C]
 DIN EN 61010-1 (VDE 0411-1)
 free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 20-section, pitch: 6 mm, label height: 12 mm		
white UM1-TM (6X12)	0830909	10
red UM1-TM (6X12) RD	0833050	10
orange UM1-TM (6X12) OG	0833051	10
yellow UM1-TM (6X12) YE	0833052	10
blue UM1-TM (6X12) BU	0833053	10
green UM1-TM (6X12) GN	0833054	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 14-section, pitch: 8 mm, label height: 10 mm		
white UM1-TM (8X10)	0830906	10
red UM1-TM (8X10) RD	0833055	10
orange UM1-TM (8X10) OG	0833056	10
yellow UM1-TM (8X10) YE	0833057	10
blue UM1-TM (8X10) BU	0833058	10
green UM1-TM (8X10) GN	0833059	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 14-section, pitch: 8 mm, label height: 12 mm		
white UM1-TM (8X12)	0830920	10
red UM1-TM (8X12) RD	0833060	10
orange UM1-TM (8X12) OG	0833061	10
yellow UM1-TM (8X12) YE	0833062	10
blue UM1-TM (8X12) BU	0833063	10
green UM1-TM (8X12) GN	0833064	10
UM1-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, unprinted, 10-section, pitch: 12 mm, label height: 10 mm		
white UM1-TM (12X10)	0830916	10
red UM1-TM (12X10) RD	0833065	10
orange UM1-TM (12X10) OG	0833066	10
yellow UM1-TM (12X10) YE	0833067	10
blue UM1-TM (12X10) BU	0833068	10
green UM1-TM (12X10) GN	0833069	10

Accessories

Magazine, for THERMOMARK CARD ... For accommodating UM1-TM ..., UM5-TM...	TMP-UM-MAG1	0831200	1
Magazine for the BLUEMARK printer, for accommodating UM materials	BLUEMARK MAG UM-TM	0803335	1

Terminal marking

UM marking for terminals from other manufacturers, strips

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove, with an offset foot, up to a pitch of 6 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, and Klemmsan
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK ... and THERMOMARK CARD ...
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high level of positional accuracy

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD • BLUEMARK CLED	
PC	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone, halogen, and cadmium	

Description	Color
UM1U-TM ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemmsan, with an offset foot, unprinted, 24-section, pitch: 5 mm	white
	red
	orange
	yellow
	blue
	green
UM1U-TM ... , for marking terminal blocks from other manufacturers such as Weidmüller, CONTA-CLIP, Klemmsan, with an offset foot, unprinted, 20-section, pitch: 6 mm	white
	red
	orange
	yellow
	blue
	green

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UM1U-TM (5X10)	0830910	10	
UM1U-TM (5X10) RD	0833030	10	
UM1U-TM (5X10) OG	0833031	10	
UM1U-TM (5X10) YE	0833032	10	
UM1U-TM (5X10) BU	0833033	10	
UM1U-TM (5X10) GN	0833034	10	
UM1U-TM (6X10)	0830907	10	
UM1U-TM (6X10) RD	0833045	10	
UM1U-TM (6X10) OG	0833046	10	
UM1U-TM (6X10) YE	0833047	10	
UM1U-TM (6X10) BU	0833048	10	
UM1U-TM (6X10) GN	0833049	10	

Magazine for THERMOMARK CARD
For accommodating UM1U-TM ...
Magazine for the BLUEMARK printer , for accommodating UM materials

Accessories		
	Order No.	Pcs. / Pkt.
TMP-UM-MAG4	0831203	1
BLUEMARK MAG UM-TM	0803335	1

UM marking for terminals from other manufacturers, strips

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



For a flat marker groove up to a pitch of 8 mm

- The universal UM1-TM ... material marking range includes markers for Weidmüller, Conta-Clip, Klemsan, Wago, and ABB (Entrelec) terminal blocks
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK ... and THERMOMARK CARD ...
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD • BLUEMARK CLED
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 34-section, pitch: 3.5 mm				
	white	UM1-TMF (3,5X5)	0830935	10
	red	UM1-TMF (3,5X5) RD	0833000	10
	orange	UM1-TMF (3,5X5) OG	0833001	10
	yellow	UM1-TMF (3,5X5) YE	0833002	10
	blue	UM1-TMF (3,5X5) BU	0833003	10
	green	UM1-TMF (3,5X5) GN	0833004	10
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 24-section, pitch: 5 mm				
	white	UM1-TMF (5X5)	0830902	10
	red	UM1-TMF (5X5) RD	0833005	10
	orange	UM1-TMF (5X5) OG	0833006	10
	yellow	UM1-TMF (5X5) YE	0833007	10
	blue	UM1-TMF (5X5) BU	0833008	10
	green	UM1-TMF (5X5) GN	0833009	10
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 20-section, pitch: 6 mm				
	white	UM1-TMF (6X5)	0830904	10
	red	UM1-TMF (6X5) RD	0833010	10
	orange	UM1-TMF (6X5) OG	0833011	10
	yellow	UM1-TMF (6X5) YE	0833012	10
	blue	UM1-TMF (6X5) BU	0833013	10
	green	UM1-TMF (6X5) GN	0833014	10
UM1-TMF ... , for marking terminal blocks from other manufacturers, Weidmüller, Conta-Clip, Klemsan, Wago, ABB (Entrelec), unprinted, 14-section, pitch: 8 mm				
	white	UM1-TMF (8X5)	0830924	10
	red	UM1-TMF (8X5) RD	0833015	10
	orange	UM1-TMF (8X5) OG	0833016	10
	yellow	UM1-TMF (8X5) YE	0833017	10
	blue	UM1-TMF (8X5) BU	0833018	10
	green	UM1-TMF (8X5) GN	0833019	10

Accessories

Magazine for THERMOMARK CARD For accommodating UM1-TMF ...	TMP-UM-MAG3	0831202	1
Magazine for the BLUEMARK printer , for accommodating UM materials	BLUEMARK MAG UM-TM	0803335	1

Terminal marking

UM marking for terminals from other manufacturers, strips

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove up to a pitch of 6 mm

- The universal UM...-TM... material marking range includes markers for terminal blocks from a variety of manufacturers. UM2... for Wago, UM3... for Wieland, UM5... for Cabur, and UM6M... for ABB
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK... and THERMOMARK CARD
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high degree of positioning accuracy

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD • BLUEMARK CLED	
PC	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
free from silicone, halogen, and cadmium	

Description	Color
UM2-TM... for marking Wago terminal blocks, unprinted, 34/28/24-section, pitch: 3.5 to 6 mm	white white white
UM3-TM... for marking Wieland terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white white white
UM5-TM... for marking Cabur terminal blocks, unprinted, 28/24/20-section, pitch: 4 to 6 mm	white white white
UM6M-TM... for marking ABB terminal blocks, unprinted, 24/20/14-section, pitch: 5 to 8 mm	white white white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM2-TM (3,5X10)	0830936	10
UM2-TM (4X10)	0830934	10
UM2-TM (5/6X10)	0830911	10

Magazine, for THERMOMARK CARD ... For accommodating UM1-TM ..., UM5-TM... For accommodating UM2-TM... For accommodating UM3-TM... For accommodating UM6M-TM...
Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG5	0803328	1
BLUEMARK MAG UM-TM	0803335	1

new

new

new



For a tall marker groove up to a pitch of 8 mm

For a tall marker groove up to a pitch of 6 mm

For a tall marker groove up to a pitch of 8 mm

Technical data		
THERMOMARK CARD • BLUEMARK CLED		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
free from silicone, halogen, and cadmium		

Technical data		
THERMOMARK CARD • BLUEMARK CLED		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
free from silicone, halogen, and cadmium		

Technical data		
THERMOMARK CARD • BLUEMARK CLED		
PC		
V2		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
free from silicone, halogen, and cadmium		

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM3-TM (5X8)	0830917	10
UM3-TM (6X8)	0830915	10
UM3-TM (8X8)	0830929	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM5-TM (4X10)	0830938	10
UM5-TM (5X10)	0830922	10
UM5-TM (6X10)	0830919	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM6M-TM (5X12)	0830928	10
UM6M-TM (6X12)	0830926	10
UM6M-TM (8X12)	0830939	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG6	0803329	1
BLUEMARK MAG UM-TM	0803335	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG1	0831200	1
BLUEMARK MAG UM-TM	0803335	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMP-UM-MAG7	0803330	1
BLUEMARK MAG UM-TM	0803335	1

Terminal marking

UM marking for terminals from other manufacturers, strips

Can be marked using:

new



Thermal transfer for sheets and cards



UV LED technology



For a tall marker groove up to a pitch of 8 mm

- The universal UM...-TM... material marking range includes markers for terminal blocks from a variety of manufacturers. UM6R... for Entelec, UM7... for Legrand, and UM8... for Woertz
- The markers, which are supplied in double strips, can be quickly and easily marked with BLUEMARK... and THERMOMARK CARD
- The markers support multiline marking
- The marking strips are easy to fit and can be easily separated if required
- The marking strips are snapped into the magazine in a twist-proof manner by means of a coding pin and fed to the output devices
- The format automatically ensures printing with a high level of positional accuracy

General data

Can be marked using	
Number of individual labels	24
Number of individual labels per strip	12
Material	PC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	free from silicone, halogen, and cadmium

Technical data

THERMOMARK CARD • BLUEMARK CLED
24
12
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Description	Color
UM6R-TM... for marking Entelec terminal blocks, unprinted, 24/20/18-section, pitch: 5 to 8 mm	white
	white
	white
UM7-TM... for marking Legrand terminal blocks, unprinted, 24/20/18-section, pitch: 5 to 8 mm	white
	white
	white
UM8-TM... for marking Woertz terminal blocks, unprinted, 24/20-section, pitch: 5 to 6 mm	white
	white

Ordering data

Type	Order No.	Pcs. / Pkt.
UM6R-TM (5X10)	0830923	10
UM6R-TM (6X10)	0830921	10
UM6R-TM (8X10)	0830932	10

Magazine for THERMOMARK CARD

- For accommodating UM7-TM...
- For accommodating UM6R-TM...
- For accommodating UM8-TM...

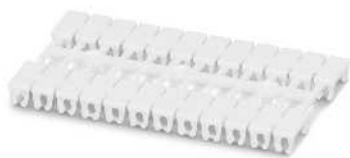
Magazine for the BLUEMARK printer, for accommodating UM materials

Accessories

TMP-UM-MAG8	0803331	1
BLUEMARK MAG UM-TM	0803335	1

new

new



For a tall marker groove up to a pitch of 8 mm

For a tall marker groove up to a pitch of 6 mm

Technical data
THERMOMARK CARD • BLUEMARK CLED
24
12
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Technical data
THERMOMARK CARD • BLUEMARK CLED
24
12
PC
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs. / Pkt.
UM7-TM (5X10)	0830933	10
UM7-TM (6X10)	0830931	10
UM7-TM (8X10)	0830945	10




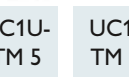


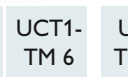

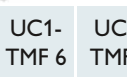


Ordering data		
Type	Order No.	Pcs. / Pkt.
UM8-TM (5X9)	0830946	10
UM8-TM (6X9)	0830943	10

Accessories		
TMP-UM-MAG10	0803334	1
BLUEMARK MAG UM-TM	0803335	1

Accessories		
TMP-UM-MAG9	0803332	1
BLUEMARK MAG UM-TM	0803335	1


Terminal marking

Terminal marking for Weidmüller

													
	Pitch	5	5	6	8	5	6	4	5	6	8	5	6
UniCard, white		0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Screw connection terminal blocks													
AKZ 1,5/AKZ 2,5	5	■						■	■			■	
AKZ 4/AKE 4	6							■	■	■		■	■
DLD(A)2,5.../MAK 2,5/VLI 2,5	6							■	■	■		■	■
SAK 10/16/35/95//EK 10/16/35	5							■	■			■	
SAK 2,5/4//EK 2,5/4	6							■	■	■		■	■
SAKS.../SAK 6//EK 6	8							■	■	■	■	■	■
WDK 2,5/4...	5	■						■	■			■	
WDL 2,5...	6		■	■		■	■	■	■	■		■	■
WDT...	5		■			■		■	■			■	
WDU (WPE) 1,5/2,5...	5		■			■		■	■			■	
WDU (WPE) 4...	6		■	■		■	■	■	■	■		■	■
WDU (WPE) 6-240...	8		■	■	■	■	■	■	■	■	■	■	■
WF...	8		■	■	■	■	■	■	■	■	■	■	■
WFF...	6		■	■		■	■	■	■	■		■	■
WNT 2,5	5		■			■		■	■			■	
WNT 4	6		■	■		■	■	■	■	■		■	■
WNT 6-WNT 70N	8		■	■	■	■	■	■	■	■	■	■	■
WSI 4	6		■	■		■	■	■	■	■		■	
WSI 6	6		■	■		■	■	■	■	■		■	■
WTL 4/6	6		■	■		■	■	■	■	■		■	■
WTR 2,5...	5		■			■		■	■			■	
WTR 4...	6		■	■		■	■	■	■	■		■	■

■ The pitch of the terminal block corresponds to the width of the label

■ The pitch of the terminal block is greater than the width of the label



	UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	5	6	8	5	6	4	5	6	8	5	6

Spring-cage connection terminal blocks

ZDK 2,5 (PE).../ZDLD 2,5.../ZMAK 2,5	5												
ZDK 4 (PE)...	6												
ZDK 6/S	8												
ZDL 2,5/S.../ZDL 4/S...	5												
ZDT 2,5 (PE).../ZT (PE) 2,5.../ZP 2,5...	5												
ZDU (ZPE) 10...-ZDU (ZPE) 35/ZEI 16...	5												
ZDU (ZPE) 2,5...	5												
ZDU (ZPE) 4...	6												
ZDU (ZPE) 6.../ZEI 6	8												
ZNT 2,5/10/16/35...	5												
ZNT 4	6												
ZNT 6	8												
ZPV 1,5.../ZIA 1,5.../ZVL 1,5...	5												
ZSI 2,5.../ZSI 6...	5												
ZSI 6-2/FC	6												
ZT (PE) 4.../ZP 4...	6												
ZTD 6/ZTL 6	6												
ZTR 2,5.../ZDTR 2,5.../ZDL 2,5...	5												

IDC terminal blocks






IDU (IPE 1,5) N.../ITR 1,5 N.../IDK 1,5 N(PE)...	5												
IDU (IPE) 2,5 N.../ITR 2,5 N...	6												
IT 1,5.../IEK 1,5 N (PE).../IAK 1,5 N.../IIK 1,5 N...	5												

Push-in connection terminal blocks

PDL 4...	5												
PDU (PPE) 2,5/4.../PDK 2,5/4 (PE)...	5												
PDU (PPE) 6/10.../PDU (PPE) 16.../PEI 16...	8												
PNT 2,5/4	5												
PNT 6/10/16	8												

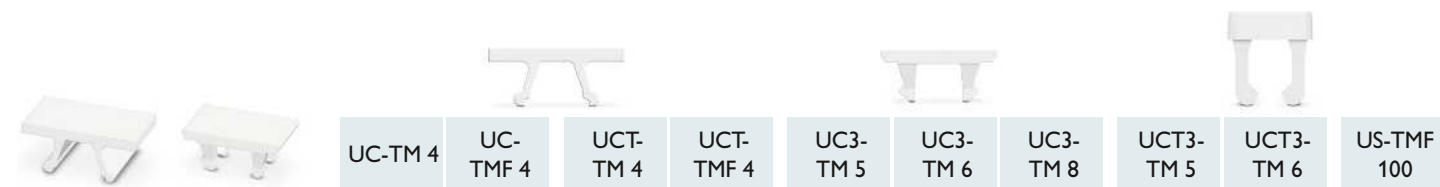
Terminal marking

Terminal marking for Wieland

						
		UC3-TM 5	UC3-TM 6	UC3-TM 8	UCT3-TM 5	UCT3-TM 6
UniCard, white		0822369	0822385	0822408	0829251	0829252
Pitch		5	6	8	5	6
Screw connection terminal blocks						
9700 A/5...	5					
9700 A/6...	6					
9700 A/8...	8					
9700 A/10...	10					
9700 A/12...	12					
9700 A/16...	16					
9700 A/6 ETK...	6					
9700 A/8 ETK...	8					
9700 A/10 ETK...	10					
WK(M) 2,5...	5					
WK 4..., WKI 4..., WKM 4...	6					
WK 6...	8					
WKN 10..., WKI 10...	10					
WKN 16..., WKI 16...	12					
WKN 35..., WKI 35...	16					
WKN 70...	24					
WKN 70...	28					
9785 U/..., 9786 U/...	12					

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label



	UC-TM 4	UC-TMF 4	UCT-TM 4	UCT-TMF 4	UC3-TM 5	UC3-TM 6	UC3-TM 8	UCT3-TM 5	UCT3-TM 6	US-TMF 100
UniCard, white	0818111	0818166	0828732	0828742	0822369	0822385	0822408	0829251	0829252	0829260
Pitch	4	4	4	4	5	6	8	5	6	

Spring-cage connection terminal blocks







WKF 1,5...	4									
WKF 1,5 KOI..., WKF 1,5 KOA...	5									
WK(I)F 2,5..., WKFN 2,5...	5									
WKF 4..., WKFN 4...	6									
WKF 6...	8									
WKF 10...	10									
WK(I)F 16...	12									
WKF 35...	16									

Fast connection terminal blocks

WKC 1...	5									
WKC 2,5...	6									
WKF 16...WKC	12									


Terminal marking





Terminal marking for Conta-Clip

		 			 							
		UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white		0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch		5	6	8	5	6	4	5	6	8	5	6
Spring-cage connection terminal blocks												
Z(S)RK 2,5..., ZSL 2,5...	5											
ZRK 4..., ZSL 4...	6											
ZRK (ZSL) 6..., ZRK (ZSL) 10..., ZRK (ZSL) 16...	8											
ZRKD 2,5..., ZSLD 2,5...	5											
ZIKD 2,5..., ZVMAK 2,5...	5											
ZTRK 2,5...	5											
ZIZA 1,5...	5											
ZS...	5											
Push-in connection terminal blocks												
FRK 1,5.../FSL 1,5...	4											
FRK 2,5.../FSL 2,5...	5											
FRK 4.../FSL 2,5...	6											
FRKD 2,5.../FSLD 2,5...	5											
FDLIS 2,5...	5											
FTRK 2,5...	5											
HSK...	8											

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label




												
		UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white		0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
	Pitch	5	6	8	5	6	4	5	6	8	5	6
Screw connection terminal blocks												
RK 1,5-4...	6											
RK 2,5...	5											
RK 2,5-4...	6											
RK 6-10.../16.../35...	8											
RK 50...-RK 240...	8											
SL...	5											
RKD 2,5...	5											
RKD 4...	6											
DLI 2,5..., VMAK 2,5...	6											
IK (D) 2,5...	5											
TRK 1,5...	5											
TK.../STK...	8											
PTK...	8											
SIK 10...	8											
STK...	6											
SK...	8											
TSK 2,5	5											
FF.../SF...	6											
DLIS.../DLI...	6											
NT...	6											
RKA 2,5...	5											
RKA 4...	6											
RKA 10...	8											
RKB 4...	5											
KBL 2,5...	5											
KBL 2,5-4...	6											
KBL 6-10...	8											

Terminal marking

Terminal marking for ABB (Entrelec)



		UCT6M-TM 5	UCT6M-TM 6	UCT6M-TM 8
UniCard, white		0830756	0830757	0830758
	Pitch	5	6	8
SNK series				
ZS4...	5.2			
ZS6...	6			
ZS10...	8			
ZS16...	10			
ZS35...	16			
ZS70...	22			
ZS95...	26			
ZS4-S-R...	6			
ZS4-S-R3...	8			
ZS4-S-T2-R...	6			
ZS4-SP-R...	6			
ZS4-SP-T2-R...	6			
ZS4-SF...	6			
ZS4-SF1...	8			
BAM3	10			
CS-R1	3			
TCS5...	5.2			
Pg5...	5.2			

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label



	UC2F-TM 5 UCT6R-TM 5	UC2F-TM 6 UCT6R-TM 6	UC2F-TM 8 UCT6R-TM 8	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6
UniCard, white	0822187 0830753	0822194 0830754	0822204 0830755	0821360	0821425	0821483
Pitch	5	6	8	4	5	6

Screw connection terminal blocks

M(A) 2,5/5...	5					
M 4/6...	6					
M 6/8	8					
M 10/10, M 16/12, M 35/16, M 70/22, M 95/22	8					
D 150/31..., D 240/36...	8					
D 4/6 NTLP	6					
MA 2,5/5.NT	5					
M 4/6.NT	6					
M 6/8.NT	8					
M 10/10.NT, M 16/12.NT, M 35/16.	8					

Spring-cage connection terminal blocks


D 1,5/4... 2 L, D 1,5/4.../4 L	4					
D 2,5/5... 2 L, D 2,5/5... 3 L, D 2,5/5... 4 L	5					
D 4/6... 2 L, D 4/6... 3 L, D 4/6... 4 L	6					
D 6/8... 2 L	8					
D 10/10... 2 L, D 16/12... 2 L, D 35/16... 2 L	8					
D 2,5/5.NT.L	5					
D 4/6.NT.L	6					
D 6/8.NL.L	8					
D 10/10.NZ.L., D 16/12.NT.L, D 35/16NT.L.	8					
D 2,5/5.N...	5					

IDC terminal blocks

D 1,5... ADO	5					
D 1,5/6... ADO	6					
D 2,5/8... ADO, D 4/8... ADO	8					
D 1,5/6.NT.ADO	6					
D 2,5/8.NT.ADO	8					
D 2,5/5... ADO	5					
D 4/6... ADO	6					
D 6/8... ADO, D 6/8.ADO3	8					

Terminal marking

Terminal marking for Wago




		UC2-TM 4	UC2-TM 5	UC2-TM 6	UC2-TM 8	UCT2-TM 5/6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	US2-TM 100/TMT 2
UniCard, white		0821713	0821690	0821674	0821755	0829249	0821360	0821425	0821483	0821548	0829268/ 0802683
	Pitch	4	5	6	8	5/6	4	5	6	8	
Spring-cage connection terminal blocks											
2001...	4	■									■
2002..., 2003...	5	■	■			■	■	■			■
2004..., 2005..., 2006...	6	■	■	■		■	■	■	■		■
2010..., 2016...	8	■	■	■	■		■	■	■	■	■
261..., 264...	6						■	■	■		
270...	5						■	■			
279...	4	■									
280...	5	■	■			■					
280-8...	5						■	■			
281...	6	■	■	■		■					
282..., 283..., 284...	8	■	■	■	■						
285..., 290...	5	■	■			■					
727...	6	■	■	■							
769...	5						■	■			
775..., 776..., 777...	6	■	■	■							
780...	5	■	■			■					
781...	6	■	■	■							
782..., 783..., 784..., 785...	8	■	■	■	■						
869..., 870..., 880...	5	■	■			■	■	■			


■ The pitch of the terminal block corresponds to the width of the label

■ The pitch of the terminal block is greater than the width of the label

Terminal marking for Cabur





		UCT5-TM 5	UCT5-TM 6
UniCard, white		0828750	0828752
	Pitch	5	6
Screw connection terminal blocks			
CBD.2	5.5		
CBD.4	6.5		
CBD.6	8		
CBD.10	10		
CBD.16	12		
CBD.35	16		
CBD.50	18		
CBD.70	20.5		
AFO.2/1+2, AFO.2/2+2	6.5		
CBC.2	5		
CBC.4	6		
CBC.6	8		
CBC.16	12		
CBC.35	16		
GPA.70	20.5		
GPA.95	26		
GPA.150	31		
GPA.240	37		
TE.6	8		
TE.10	10		
TE.16	12		
TE.35	16		
TED.4	6.5		
TEO.2	5.5		
TEO.4	6.5		
TEC.6	8		
TEC.10	10		
TEC.16	12		
TEC.35	16		
TEC.70	20.5		
CBE.2, CBR.2, CVF.2	5		
CVF.4, DAS.4	6		
DBC.2	5		



		UCT5-TM 5	UCT5-TM 6
UniCard, white		0828750	0828752
	Pitch	5	6
Screw connection terminal blocks			
DSFA.4, DSS.4	6		
EDM.2, TC/DIN, TC/PO	5.5		
EDM.4, FDP.2, FFS.4, FVS.4	6.5		
EDM.6	8		
EDM.10, SFR.6	10		
EDM.16, FPC.10, FPL.10	12		
EDM.25	16		
EDM.35	18.5		
EDM.70	21		
MPFA.4, MPS.4, RP.4	6		
MPS.2/SV, MPS.2/SW, MPS.2/SWP	5.5		
PDF.2, SCB.4	6.5		
RN.2, TR.2	5		
TR.4	7.3		
SCB.6, SFO.4, SFR.4, SV.6	8		
SV.2	5.5		
SV.4	7		
SV.10	10.5		
TDE.2, TLD.2, TLE.2, TLS.2	6.2		
VPC.2, VPD.2	5.08		

Spring-cage connection terminal blocks			
HCD.1	5.08		

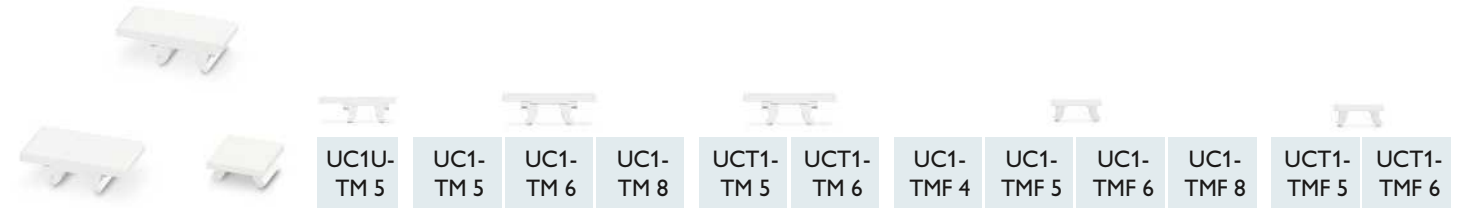
Push-in connection terminal blocks			
NCS, NCV	6.2		

 The pitch of the terminal block corresponds to the width of the label  The pitch of the terminal block is greater than the width of the label

Marking and labeling - MARKING system

Terminal marking

Terminal marking for Klemsan



	UC1U-TM 5	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821302	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	5	6	8	5	6	4	5	6	8	5	6

Screw connection terminal blocks

AVK 2,5/PEK 2,5 K/WGT 2,5	5											
AVK 4.../AVK 2,5/4T/PEK 2,5/PEK 4/WGT 4	6											
AVK 6-240/ PEK 6-35	8											
AVK 6/10T16/35T// WGT 6/WGT 10	8											
PIK 2,5...	5											
PIK 4...	6											
PIK 3...	6											
ASK 2	8											
ASK 3	6											
ASK 4/AVK 4 FS	8											
ASK 4S/ASK 4 LD	6											
WGO...	8											
AYK 4...	6											
AYK 10...	8											
MVK 2,5 (T)	5											
MVK 4 (T)	6											

Spring-cage connection terminal blocks

YBK 2,5 (T)	5											
YBK 4 (T)	6											
YBK 6 (T) YBK 10 (T)	8											
MYK 2,5 (T).../MYP- PK 2,5...	5											
YBK 2,5 F.../YBK 3...	5											
YBK 4...	6											
YBK S.../YBK I...	8											
YBK 2,5 A.../YBK 2,5 E.../YB K 2,5C...	5											
PCY 2,5...	5											

 The pitch of the terminal block corresponds to the width of the label

 The pitch of the terminal block is greater than the width of the label

Terminal marking for Legrand



	UC3-TM 5	UC3-TM 6	UC3-TM 8
UniCard, white	0822369	0822385	0822408
Pitch	5	6	8

Screw connection terminal blocks, Viking 2			
39060	5		
39061-39068	6		
39070	6		
39077	5		
39078, 39080, 39082	6		
39084, 39085	6		
39300	5		
39301-39305	6		
39307	6		
39370	5		
39371, 39372, 39374	6		
39376, 39378	6		


Spring-cage connection terminal blocks, Viking 3			
39601, 39602	5		
39604	6		
39605	8		
39606, 39607	8		
39608	6		
39627	5		
39628, 39636	6		
39611, 39612	5		
39614	6		
39615	8		
39616, 39617	8		
39618, 39646	6		
39621	5		
39624	6		
39625	8		
39626, 39629	8		
39622	5		
39630, 39666	6		

Terminal marking

Terminal marking for Weidmüller

		UM1-TMF				UM1...-TM									
		3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white		0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916
	Pitch														
Push-in connection terminal blocks															
PDK 2,5	5.1														
PDL 4	5.1														
PDU 2,5	5.1														
PDU 6/10	8.1														
PDU 16	12.1														
PEI 16	15														
PMAK 4	5.1														
PNT 2,5	5.1														
PNT 6/10	8.1														
PNT 16	12.1														
PPE 2,5	5.1														
PPE 6	8.1														
PPE 16	12.1														
PSI 6/10	12.2														
PTD 6/10	8.1														
PTL 6/10	8.1														
PTR 2,5	5.1														

 Pitch of Phoenix Contact marking material equal to Weidmüller pitch

 Pitch of Phoenix Contact marking material smaller than Weidmüller pitch

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Spring-cage connection terminal blocks

Terminal Block	Pitch	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
ZDK 1,5	3.5	■													
ZDK 2,5	5.1		■						■						
ZDK 4	6.1			■											
ZDKPE 2,5	5.1		■				■	■							
ZDLD 2,5	5.1		■						■						
ZDT 2,5	5.1		■												
ZDTR 2,5	5.1		■												
ZDU 1,5	3.5	■				■									
ZDU 2,5	5.1		■				■	■							
ZDU 4	6.1			■									■		
ZDU 6	8.1				■									■	
ZDU 10	10.1		■						■						
ZDU 16	12.1		■						■						
ZDU 35	16		■						■						
ZDUA 2,5	5.1		■				■	■							
ZDUB 2,5	5.1		■				■	■							
ZEI16	10				■									■	
ZEI 16-2	14		■						■						
ZIA 1,5	5.08		■												
ZMAK 2,5	5.1		■						■						
ZNT 4	6.1			■						■	■				
ZNT 6	8.1				■					■	■				
ZNT 16	10		■												
ZNT 35	16		■												
ZP 2,5	5.1		■				■	■							
ZP 4	6.1		■												
ZPE 1,5	3.5	■				■									
ZPE 2,5	5.1		■				■	■							
ZPE 4	6.1			■										■	
ZPE 6	8.1				■										■
ZPE 10	10.1		■												■
ZPE 16	12.1		■						■						

Terminal marking

Terminal marking for Weidmüller

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Spring-cage connection terminal blocks

Terminal Block	Pitch	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
ZPE 35	16		■						■						
ZPEA 2,5	5.1		■				■	■							
ZPEB 2,5	5.1		■				■	■							
ZPV 1,5	5.1		■						■						
ZRV 1.5	5.1		■												
ZRV 2.5	5.2		■						■						
ZSI 2x6	16		■												
ZSI 2,5	7.9		■				■	■							
ZSI 6	12.2		■				■	■							
ZT 2,5	5.1		■				■	■							
ZT 4	6.5			■						■	■				
ZTC 2,5	5.1		■				■	■							
ZTCPE 2,5	5.1		■				■	■							
ZTD 6	8				■								■		
ZTL 6	8				■								■		
ZTPE 2,5	5.1		■				■	■							
ZTPE 4	6.5			■						■	■				
ZTR 2,5	5.1		■				■	■							
ZTR 6	8.1				■								■		
ZTTR 2,5	5.1		■												
ZVL 1,5	5.08		■												
ZVLD 2,5	5.1		■												

■ Pitch of Phoenix Contact marking material equal to Weidmüller pitch

■ Pitch of Phoenix Contact marking material smaller than Weidmüller pitch

	UM1-TMF				UM1...TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Screw connection terminal blocks

AKE 2,5	5.1													
AKE 4	7													
AKZ 1,5	5.1													
AKZ 2,5	5.1													
AKZ 4	6.1													
DLA 2,5	6.1													
DLD 2,5	6.1													
KDKS 1	8													
MAK 2,5	6.2													
SAKS 2	27.6													
SAKS 4	24													
SAKS 5	28													
VLI 1,5	6.15													
WDK 1,5/R	3.5													
WDK 2,5	5.1													
WDK 4	6.1													
WDK 10	9.9													
WDKL 4	6.5													
WDL 2,5	6.1													
WDT 1,5	6.4													
WDTR 2,5	6.2													
WDU 1,5	5.1													
WDU 1,5/R	3.5													
WDU 2,5	5.1													
WDU 2,5/TC	10.2													
WDU 4	6.1													
WDU 6	7.9													
WDU 10	9.9													
WDU 16	11.9													
WDU 35	16													
WDU 50	18.5													
WDU 70	20.5													
WDU 95	27													

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Screw connection terminal blocks

WTL 6	7.9																
WTL 6 SL	7.9																
WTL 6/4 FF	11																
WTQ 6	7.9																
WTR 2,5	5.1																
WTR 4	6.1																
WTR 35	32																
WTR 4 SL	6.1																
WTR 4/SI	6.1																

Bolt connection terminal blocks

WF 5	13																
WF 6	17.8 8																
WF 8	22.8																
WF 10	33.8																
WF 12	33.8																
WF 6/2 BZ	17.8																
WF 8/2 BZ	22.8																
WF 10/2 BZ	33.8																
WFF 35	27																
WFF 70	32																
WFF 120	38																
WFF 185	55																
WFF 300	55																

Marking and labeling - MARKING system

Terminal marking

Terminal marking for CONTA-CLIP

	UM1-TMF				UM1...TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch


Pressure spring connection terminal blocks

FDLI 2,5	5.1													
FDLIS 2,5	5.1													
FDLIS B 2,5	15.3													
FNT 2,5	5.1													
FNT 6	8.1													
FRK 1,5	4.1													
FRK 2,5	5.1													
FRK 4	6.1													
FRKD 2,5	5.1													
FRKI 2,5	5.1													
FRKI 6	8.1													
FSIK 4	6.1													
FSL 1,5	4.1													
FSL 2,5	5.1													
FSL 4	6.1													
FSLD 2,5	5.1													
FSLI 2,5	5.1													
FSLI 6	8.1													
FTRK 2,5	5.1													

Bolt connection terminal blocks

HSK 16	13													
HSK 35	16													
HSK 50	21													
HSK 70	40													
HSK 95	40													
HSK 120	32													
HSK 150	50													
HSK 240	50													

 Pitch of Phoenix Contact marking material equal to Conta Clip pitch

 Pitch of Phoenix Contact marking material smaller than Conta Clip pitch

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Spring-cage connection terminal blocks

SL 4	6.1																		
ZIKD 2,5	5.1																		
ZIZA 1,5	5.1																		
ZMP 1,5	5.1																		
ZRK 2,5	5.1																		
ZRK 4	6.1																		
ZRK 6	8.1																		
ZRK 10	10.1																		
ZRK 16	12.1																		
ZRKD 2,5	5.1																		
ZRKS 2,5	5.1																		
ZSL 2,5	5.1																		
ZSL 4	6.1																		
ZSL 6	8.1																		
ZSL 10	10.1																		
ZSL 16	12.1																		
ZSLD 2,5	5.1																		
ZSLN 2,5	5.1																		
ZSLS 2,5	5.1																		
ZSRK 2,5	5.1																		
ZST 2,5	5.1																		
ZSTK 2,5	5.1																		
ZTRK 2,5	5.1																		
ZVMAK 2,5	5.1																		

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Screw connection terminal blocks

SK 1	12.2													
SL 2,5	6													
SL 4/15	7													
SL 4/35	8													
SL 10	10													
SL 16	10													
SL 35	16													
SLN 2,5	6													
SMAG 4/2,5	5.9													
SMAG 6/4	6.6													
SMAG 10/6	8.3													
SRK 2,5	5													
SRK 4	6													
SRK 6	8													
SRK 10	10													
SSIK 4	6.1													
SSIK 6	8													
SSL 2,5	5													
SSL 4	6													
SSL 6	8													
SSL 10	10													
STA 5/1	5													
STK 1	8													
STK 2	8													
STKD 1	8													
TK 2	8													
TK 4	7.5													
TKS 4	7.5													
TKS 10	11.25													
TRK 1,5	6													
TSK 2,5	10													
VMAK	6													

Terminal marking

Terminal marking for Klemsan

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Spring-cage connection terminal blocks

Terminal Block	Pitch	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
MYK 2,5...	5		■												
MYPK 2,5...	5		■												
MYSK 2,5...	5		■												
PCY 2,5...	5.05		■				■								
PYK 1,5...	4.2					■									
PYK 2,5...	5		■				■								
PYK 2,5-2...	5		■				■								
PYK 2,5-3...	5		■				■								
PYK 3 S...	5		■				■								
PYK 4...	6									■					
PYK 4 I...	8												■		
PYK 4 S...	8												■		
PYK 4-2...	6									■					
PYK 6...	8												■		
PYK 10...	10												■		
PYKM 2,5...	5		■												
PYKMR 2,5...	5						■								
YBK 2,5...	5		■				■								
YBK 2,5-2...	5		■				■								
YBK 2,5-3...	5		■				■								
YBK 3 S...	5		■				■								
YBK 4...	5									■					
YBK 4-2...	6									■					
YBK 6...	8												■		
YBK 10...	10												■		
YBK I...	8												■		
YBK S...	8												■		

■ Pitch of Phoenix Contact marking material equal to Klemsan pitch

■ Pitch of Phoenix Contact marking material smaller than Klemsan pitch

Terminal marking

Terminal marking for Klemsan

	UM1-TMF				UM1...-TM									
	3.5x5	5x5	6x5	8x5	3.5x12	5x10	U 5x10	5x12	6x10	U 6x10	6x12	8x10	8x12	12x10
UniCard, white	0830935	0830902	0830904	0830924	0830925	0830905	0830910	0830912	0830903	0830907	0830909	0830906	0830920	0830916

Pitch

Screw connection terminal blocks

PUK 2...	6													
PUK 3...	6													
WGL 1...	8													
WGO 1...	8													
WGO 2...	10													
WGO 3...	8													
WGO 4...	8													
WGO PB...6	11													
WGO Y...6...	8													

 Pitch of Phoenix Contact marking material equal to Klemsan pitch

 Pitch of Phoenix Contact marking material smaller than Klemsan pitch



Conductor and cable marking - MARKING system

Clear and permanent marking of all conductors and cables considerably improves transparency in control cabinets and switchgear. It makes assembly and maintenance work easier and assists in rectifying faults.

Phoenix Contact conductor and cable markers provide the ideal marking option for any application. Just select an assembly method. The markers can be threaded on, clipped on, adhered in place or secured with cable binders.

Product range overview

Conductor and cable marking	154
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LaserSheet LS-WMTB... conductor and cable marking

Stainless steel and aluminum markers, for assembly with cable binders	156
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WMTB AL... aluminum conductor and cable marking	160
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UniCard UC-WM... and UCT-WM... conductor and cable marking

Clip-on and slide-on markers, for insertion into marking collars, for assembly with cable binders, for threading	162
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UniSheet US-WM... conductor and cable marking

Markers for insertion into marking collars, for assembly with cable binders, adhesive markers for wrapping around	181
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WM... conductor and cable marking supplied in rolls

Adhesive markers for wrapping around or as flags	184
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WMS... shrink sleeves supplied in rolls	189
--	------------

EMT and WMT... conductor and cable marking supplied in rolls

Markers for insertion into marking collars, for threading, for assembly with cable binders	194
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KMK... cable markers for assembly with cable binders	200
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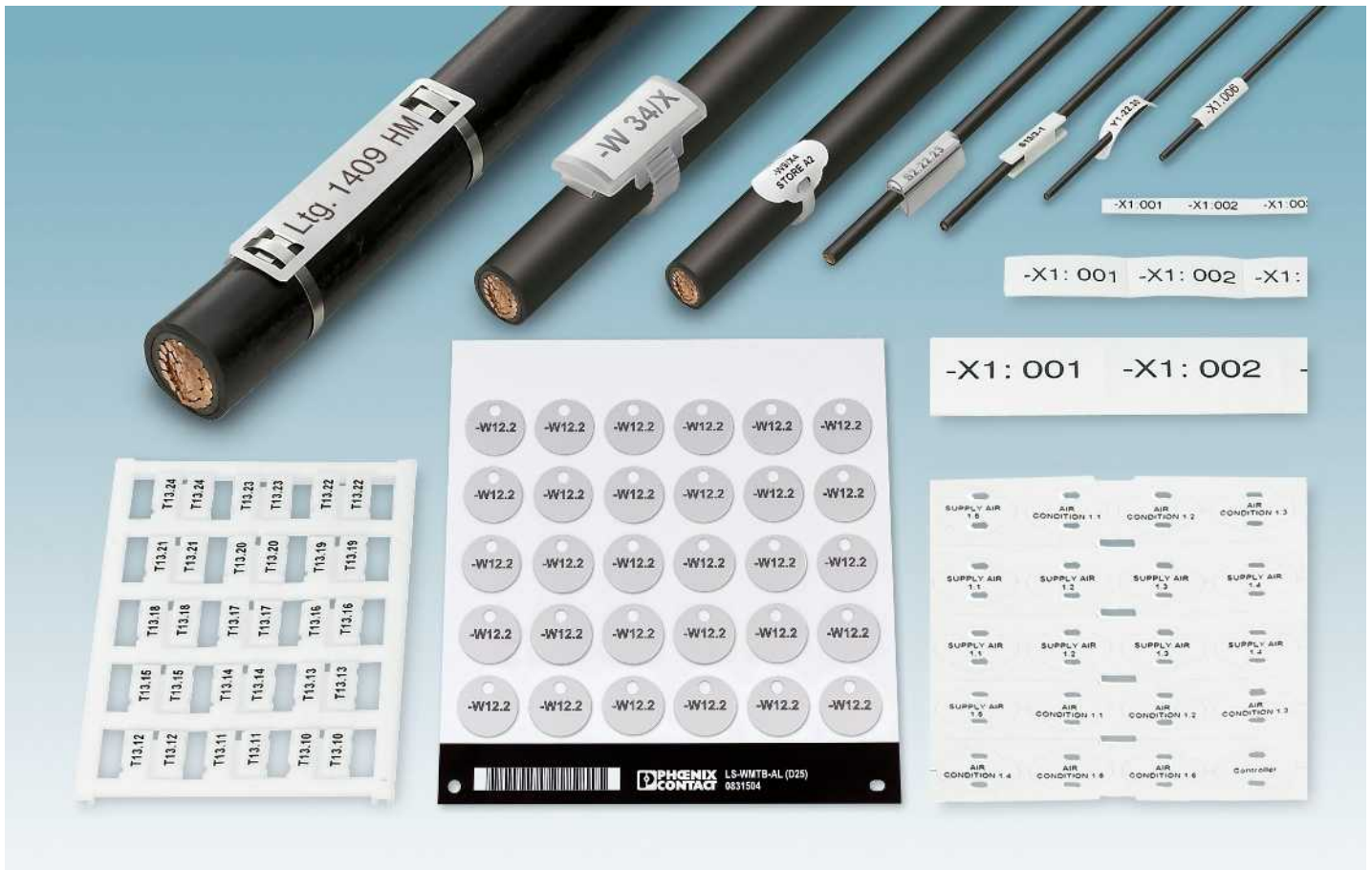
Cable markers for carrier assembly

Markers made of plastic and stainless steel	211
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PATG... and PATO... marking collars	214
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Overview of conductor markers and cable markers	218
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The right marking solution for every diameter



Far from being a luxury, standard-compliant and permanent conductor markings are actually a mark of quality demanded by customers in respect of modern high-quality capital goods. Phoenix Contact conductor and cable marking systems provide ideal marking options for any user regardless of whether the conductor markers are to be threaded on, slid on, clipped on, adhered in place or secured with cable binders.

Depending on the material, the following marking systems can be used for the individual marking of conductor and cable markers:

- TOPMARK LASER, laser marker for marking UniCard formats, as well as stainless steel and aluminum labels
- BLUEMARK CLED, high-speed printer with UV technology for marking UniCard formats and aluminum markers
- THERMOMARK CARD, thermal transfer printer for marking UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for marking material off the roll and continuous media
- THERMOMARK ROLL X1, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided marking and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER
- Commercially available desktop laser printers

The CLIP PROJECT software produces easy, efficient markings. It generates the marking data directly from the circuit diagram and automatically sends the data to the relevant marking systems for further processing.

If no marking systems are available or your production facility is affected by capacity bottlenecks, you also have the option of using our marking service. We will be happy to handle your printing orders. This also includes engraving or laser marking of stainless steel cable markers.



Conductor and cable markings can be optimally and permanently marked with stainless steel or aluminum markers. They are easily attached using cable binders.



Clip-on conductor markers feature two non-detachable marking areas that remain legible at all times. They can be clipped onto pre-wired conductors and cables manually.



Individual printed markers are threaded onto conductors or attached by means of cable binders. Various materials can be supplied as cards or on rolls.



The ferrules feature an insulating collar that supports marking and are marked prior to crimping. This combines two operations in one.



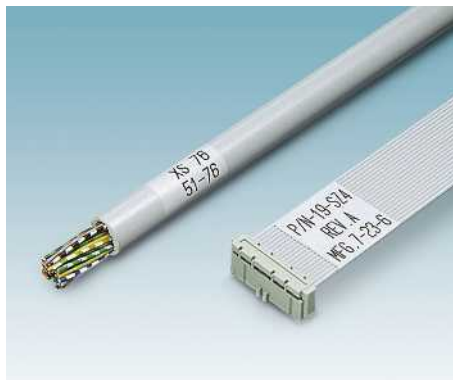
Conductors can be fitted with PATG and PATO marking collars. Marking is achieved by means of insert strips that support marking.



Shrink sleeves are ideal for captive marking of cables and conductors. They are available prefabricated and in rolls.



Conductor markers can be fitted using cable binders almost regardless of conductor or cable diameter. The large marking area provides enough space for long labels.



Cable marker labels consist of a marking field and a transparent foil that protects the marking against abrasion and dirt. The labels are available in various shapes and sizes.



Plastic cable markers are suitable for both bundling and marking conductors and cables. A screw cap protects the marking against dirt and can be replaced at any time.

Conductor and cable marking

Stainless steel and aluminum cable marking for assembly with cable binders



- The LS-WMTB ... product range is available in stainless steel (V4A) or aluminum and includes markers that can be quickly and easily fitted with cable binders
- The LS-WMTB-V4A ... group is particularly characterized by its high resistance to salt water, chloride, and solvents and it is therefore also suitable for the most demanding industrial requirements



- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-WMTB-V4A (29x8)
Lettering field size: 29 x 8 mm



- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- The LS-WMTB-V4A ... product group can be marked in two ways: by engraving or annealing
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

Can be marked using:



Direct laser marking

General data

Can be marked using
Material
Wipe resistance
Components

Description

Stainless steel label, for assembly with cable binders, conductor diameter

36-section, > 2.9 mm Ø

16-section, > 4.6 mm Ø

16-section, > 4.6 mm Ø

8-section, > 4.6 mm Ø

Aluminum label, for assembly with cable binders, conductor diameter

36-section, > 2.9 mm Ø

16-section, > 4.6 mm Ø

16-section, > 4.6 mm Ø

8-section, > 4.6 mm Ø

Sheet hopper, for TOPMARK LASER

Notes:

For corresponding stainless steel cable binders, see page 594.

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Stainless steel, material thickness: 0.5 mm

PRINTED
FOR YOU



Aluminum, material thickness: 0.8 mm

PRINTED
FOR YOU



Aluminum, black, material thickness: 0.8 mm

Technical data

TOPMARK LASER
V4A
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-V4A (29X8)	0831516	5
LS-WMTB-V4A (40X15)	0831517	5
LS-WMTB-V4A (60X15)	0831518	5
LS-WMTB-V4A (100X15)	0831519	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (29X8)	0831500	5
LS-WMTB-AL (40X15)	0831501	5
LS-WMTB-AL (60X15)	0831502	5
LS-WMTB-AL (100X15)	0831503	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (29X8) BK	0831508	5
LS-WMTB-AL (40X15) BK	0831509	5
LS-WMTB-AL (60X15) BK	0831510	5
LS-WMTB-AL (100X15) BK	0831511	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Conductor and cable marking

Stainless steel and aluminum cable marking for assembly with cable binders



- The LS-WMTB ... product range in circular format is available in stainless steel (V4A) or aluminum and includes markers that can be quickly and easily fitted with cable binders
- The LS-WMTB-V4A ... group is particularly characterized by its high resistance to saltwater, chloride, and solvents and it is therefore also suitable for the most demanding industrial requirements



- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-WMTB-V4A (D25)
Diameter: 25 mm



- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- The LS-WMTB-V4A ... product group can be marked in two ways: by engraving or annealing
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

Can be marked using:



Direct laser marking

General data

Can be marked using

Material

Wipe resistance

Components

Description

Stainless steel label, round, for assembly with cable binders

30-section, diameter: 25 mm

20-section, diameter: 30 mm

Aluminum label, round, for assembly with cable binders

30-section, diameter: 25 mm

20-section, diameter: 30 mm

Sheet hopper, for TOPMARK LASER

Notes:

For corresponding stainless steel cable binders, see page 594.

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Stainless steel, material thickness: 0.5 mm

PRINTED
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Aluminum, material thickness: 0.8 mm

PRINTED
FOR YOU



Aluminum, black, material thickness: 0.8 mm

Technical data

TOPMARK LASER
V4A
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-V4A (D25)	0831520	5
LS-WMTB-V4A (D30)	0831521	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (D25)	0831504	5
LS-WMTB-AL (D30)	0831505	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-WMTB-AL (D25) BK	0831512	5
LS-WMTB-AL (D30) BK	0831513	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Conductor and cable marking

Aluminum cable marking for assembly with cable binders



UV LED technology



Aluminum, material thickness: 0.8 mm

The WMTBA... product range is available in aluminum (AL) and is characterized by:

- High-quality appearance
- Easy assembly with cable binders
- Suitable for large-surface marking of conductors and cables > 2.9 mm in diameter

Notes:

For corresponding stainless steel cable binders, see page 594.

General data

Can be marked using
Material
Wipe resistance
Components

Technical data

BLUEMARK CLED
aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Description	Color
Aluminum label, 0.8 mm thick, conductor diameter [mm]	
Lettering field size: 29 x 8 mm, > 2.9 mm Ø	aluminum
Lettering field size: 40 x 15 mm, > 4.6 mm Ø	aluminum
Lettering field size: 60 x 15 mm, > 4.6	aluminum
Aluminum label, round, 0.8 mm thick	
Diameter: 30 mm	aluminum

Aluminum label, 0.8 mm thick, conductor diameter [mm]

Lettering field size: 29 x 8 mm, > 2.9 mm Ø aluminum
Lettering field size: 40 x 15 mm, > 4.6 mm Ø aluminum
Lettering field size: 60 x 15 mm, > 4.6 aluminum

Aluminum label, round, 0.8 mm thick
Diameter: 30 mm aluminum

Ordering data

Type	Order No.	Pcs. / Pkt.
WMTB-AL (29X8)	0830805	90
WMTB-AL (40X15)	0830524	45
WMTB-AL (60X15)	0830525	45

Magazine, for BLUEMARK printer, for accommodating aluminum labels

for WMTB-AL (29X8)
for WMTB-AL (40X15)
for WMTB-AL (60X15)

Magazine, for BLUEMARK printer, for accommodating stainless steel and aluminum labels
for WMTB-AL (D30) ...

Accessories

BLUEMARK MAG WM-M (29X8)	0802743	1
BLUEMARK MAG WM-M (40X15)	0802744	1
BLUEMARK MAG WM-M (60X15)	0802746	1

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Aluminum, material thickness: 0.8 mm

Technical data

BLUEMARK CLED
aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
WMTB-AL (D30)	0830804	90

Accessories

BLUEMARK MAG WM-M (D30)	0802747	1
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Conductor and cable marking

Clip-on UniCard conductor marking

Can be marked using:



UV LED technology



Plotter

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Markers for conductor diameters
from 1.2 to 1.9 mm

- The UC-WMC ... UniCard marking range includes markers for captive marking of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two marking areas that are clearly legible at all times
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

For more variants, see phoenixcontact.net/products.

General data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen
Conductor diameter range	1.2 ... 1.9 [mm]
Conductor cross section range	0.25 ... 0.34 [mm ²]
Conductor cross section range	24 ... 22 AWG

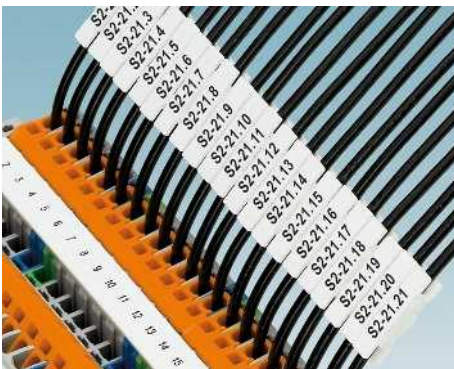
Technical data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen
Conductor diameter range	1.2 ... 1.9 [mm]
Conductor cross section range	0.25 ... 0.34 [mm ²]
Conductor cross section range	24 ... 22 AWG

Description	Color
UniCard, for subsequent marking of conductors, lettering field size 15 x 4 mm, 20-section, 4 individual labels per strip	white
	red
	orange
	yellow
	violet
	blue
UniCard, for subsequent marking of conductors, lettering field size 30 x 4 mm, 12-section, 4 individual labels per strip	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 1,9 (15X4)	0828004	10
UC-WMC 1,9 (15X4) RD	0828006	10
UC-WMC 1,9 (15X4) OG	0828007	10
UC-WMC 1,9 (15X4) YE	0828008	10
UC-WMC 1,9 (15X4) VT	0828009	10
UC-WMC 1,9 (15X4) BU	0828010	10
UC-WMC 1,9 (30X4)	0830283	10

Magazine, for CMS-P1-PLOTTER		
P1 UC-MAG 1	5146079	1

Accessories		
P1 UC-MAG 1	5146079	1



Clip-on UniCard conductor marking



Markers for conductor diameters from 1.9 to 3.1 mm

General data		Technical data
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material		PA
Inflammability class according to UL 94		V2
Temperature range	[°C]	-40 ... 120
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)
Components		Free from silicone and halogen
Conductor diameter range	[mm]	1.9 ... 3.1
Conductor cross section range	[mm²]	0.5 ... 1.5
Conductor cross section range	AWG	20 ... 16

Description		Color	Type	Order No.	Pcs. / Pkt.
UniCard , for subsequent marking of conductors, lettering field size 15 x 4 mm, 20-section, 4 individual labels per strip					
	white		UC-WMC 3,1 (15X4)	0818205	10
	red		UC-WMC 3,1 (15X4) RD	0818755	10
	orange		UC-WMC 3,1 (15X4) OG	0818726	10
	yellow		UC-WMC 3,1 (15X4) YE	0818739	10
	violet		UC-WMC 3,1 (15X4) VT	0825370	10
	blue		UC-WMC 3,1 (15X4) BU	0818742	10
UniCard , for subsequent marking of conductors, lettering field size 23 x 4 mm, 12-section, 4 individual labels per strip					
	white		UC-WMC 3,1 (23X4)	0818218	10
	red		UC-WMC 3,1 (23X4) RD	0818807	10
	orange		UC-WMC 3,1 (23X4) OG	0818771	10
	yellow		UC-WMC 3,1 (23X4) YE	0818784	10
	violet		UC-WMC 3,1 (23X4) VT	0825371	10
	blue		UC-WMC 3,1 (23X4) BU	0818797	10
UniCard , for subsequent marking of conductors, lettering field size 30 x 4 mm, 12-section, 4 individual labels per strip					
	white		UC-WMC 3,1 (30X4)	0819631	10
	red		UC-WMC 3,1 (30X4) RD	0820769	10
	orange		UC-WMC 3,1 (30X4) OG	0823863	10
	yellow		UC-WMC 3,1 (30X4) YE	0819644	10
	violet		UC-WMC 3,1 (30X4) VT	0825372	10
	blue		UC-WMC 3,1 (30X4) BU	0820756	10

Magazine, for CMS-P1-PLOTTER		Accessories		
		P1 UC-MAG 1	5146079	1

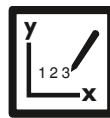
Conductor and cable marking

Clip-on UniCard conductor marking

Can be marked using:



UV LED technology



Plotter

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Markers for conductor diameters
from 2.8 to 4.4 mm

- The UC-WMC ... UniCard marking range includes markers for captive marking of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two marking areas that are clearly legible at all times
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	
Conductor diameter range	[mm]
Conductor cross section range	[mm ²]
Conductor cross section range	AWG

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen
2.8 ... 4.4
1.5 ... 4
16 ... 12

Description	Color
-------------	-------

UniCard, for subsequent marking of conductors, lettering field size 15 x 5.5 mm, 15-section, 3 individual labels per strip

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 4,4 (15X5,5)	0818182	10
UC-WMC 4,4 (15X5,5) RD	0818852	10
UC-WMC 4,4 (15X5,5) OG	0818823	10
UC-WMC 4,4 (15X5,5) YE	0818836	10
UC-WMC 4,4 (15X5,5) VT	0825373	10
UC-WMC 4,4 (15X5,5) BU	0818849	10
UC-WMC 4,4 (15X5,5) GN	0818865	10
UniCard, for subsequent marking of conductors, lettering field size 23 x 5.5 mm, 9-section, 3 individual labels per strip		
UC-WMC 4,4 (23X5,5)	0818195	10
UC-WMC 4,4 (23X5,5) RD	0818904	10
UC-WMC 4,4 (23X5,5) OG	0818878	10
UC-WMC 4,4 (23X5,5) YE	0818881	10
UC-WMC 4,4 (23X5,5) VT	0825374	10
UC-WMC 4,4 (23X5,5) BU	0818894	10
UC-WMC 4,4 (23X5,5) GN	0818917	10
UniCard, for subsequent marking of conductors, lettering field size 30 x 5.5 mm, 9-section, 3 individual labels per strip		
UC-WMC 4,4 (30X5,5)	0819657	10
UC-WMC 4,4 (30X5,5) RD	0820882	10
UC-WMC 4,4 (30X5,5) OG	0823944	10
UC-WMC 4,4 (30X5,5) YE	0819660	10
UC-WMC 4,4 (30X5,5) VT	0825375	10
UC-WMC 4,4 (30X5,5) BU	0820879	10
UC-WMC 4,4 (30X5,5) GN	0823957	10

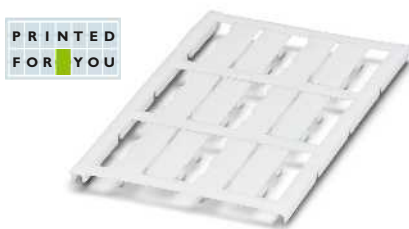


Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 2	5146082	1
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Clip-on UniCard conductor marking



Markers for conductor diameters from 4.2 to 5.6 mm



Markers for conductor diameters from 5 to 7.5 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	4.2 ... 5.6			5 ... 7.5		
Conductor cross section range	[mm²]	4 ... 10			6 ... 16		
Conductor cross section range	AWG	12 ... 10			10 ... 6		
Description		Ordering data			Ordering data		
UniCard, for subsequent marking of conductors, lettering field size 23 x 8 mm, 6-section, 2 individual labels per strip	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	white	UC-WMC 5,6 (23X8)	0825382	5	UC-WMC 7,5 (23X8)	0818179	5
	red	UC-WMC 5,6 (23X8) RD	0825387	5	UC-WMC 7,5 (23X8) RD	0819039	5
	orange	UC-WMC 5,6 (23X8) OG	0825385	5	UC-WMC 7,5 (23X8) OG	0818920	5
	yellow	UC-WMC 5,6 (23X8) YE	0825386	5	UC-WMC 7,5 (23X8) YE	0818933	5
	violet	UC-WMC 5,6 (23X8) VT	0825388	5	UC-WMC 7,5 (23X8) VT	0825376	5
	blue	UC-WMC 5,6 (23X8) BU	0825383	5	UC-WMC 7,5 (23X8) BU	0818946	5
	green	UC-WMC 5,6 (23X8) GN	0825384	5	UC-WMC 7,5 (23X8) GN	0818959	5
UniCard, for subsequent marking of conductors, lettering field size 30 x 8 mm, 6-section, 2 individual labels per strip	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	white	UC-WMC 5,6 (30X8)	0825396	5	UC-WMC 7,5 (30X8)	0819673	5
	red	UC-WMC 5,6 (30X8) RD	0825401	5	UC-WMC 7,5 (30X8) RD	0820963	5
	orange	UC-WMC 5,6 (30X8) OG	0825399	5	UC-WMC 7,5 (30X8) OG	0823724	5
	yellow	UC-WMC 5,6 (30X8) YE	0825400	5	UC-WMC 7,5 (30X8) YE	0819686	5
	violet	UC-WMC 5,6 (30X8) VT	0825402	5	UC-WMC 7,5 (30X8) VT	0825377	5
	blue	UC-WMC 5,6 (30X8) BU	0825397	5	UC-WMC 7,5 (30X8) BU	0820950	5
	green	UC-WMC 5,6 (30X8) GN	0825398	5	UC-WMC 7,5 (30X8) GN	0823708	5
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 3	5146095	1	P1 UC-MAG 3	5146095	1

Conductor and cable marking

UniCard slide-on conductor marking

- The UC-WMCO ... UniCard marking range includes slide-on markers for the subsequent marking of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK or plotter
- The format automatically ensures printing with a high level of positional accuracy
- Large-surface marking in a space-saving design

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Markers for conductor diameters from 1.3 to 1.6 mm

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Markers for conductor diameters from 1.6 to 2.1 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	1.3 ... 1.6			1.6 ... 2.1		
Conductor cross section range	[mm²]	0.25 ... 0.5			0.5 ... 0.75		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard , for subsequent marking of conductors, lettering field size 12 x 3 mm, 40-section, 10 individual labels per strip							
	white	UC-WMCO 1,6 (12X3)	0827092	10	UC-WMCO 2,1 (12X3)	0827120	10
	red	UC-WMCO 1,6 (12X3) RD	0827516	10	UC-WMCO 2,1 (12X3) RD	0827540	10
	orange	UC-WMCO 1,6 (12X3) OG	0827517	10	UC-WMCO 2,1 (12X3) OG	0827541	10
	yellow	UC-WMCO 1,6 (12X3) YE	0827513	10	UC-WMCO 2,1 (12X3) YE	0827537	10
	violet	UC-WMCO 1,6 (12X3) VT	0827518	10	UC-WMCO 2,1 (12X3) VT	0827542	10
	blue	UC-WMCO 1,6 (12X3) BU	0827514	10	UC-WMCO 2,1 (12X3) BU	0827538	10
	green	UC-WMCO 1,6 (12X3) GN	0827515	10	UC-WMCO 2,1 (12X3) GN	0827539	10
UniCard , for subsequent marking of conductors, lettering field size 21 x 3 mm, 40-section, 10 individual labels per strip							
	white	UC-WMCO 1,6 (21X3)	0827106	10	UC-WMCO 2,1 (21X3)	0827134	10
	red	UC-WMCO 1,6 (21X3) RD	0827528	10	UC-WMCO 2,1 (21X3) RD	0827552	10
	orange	UC-WMCO 1,6 (21X3) OG	0827529	10	UC-WMCO 2,1 (21X3) OG	0827553	10
	yellow	UC-WMCO 1,6 (21X3) YE	0827525	10	UC-WMCO 2,1 (21X3) YE	0827549	10
	violet	UC-WMCO 1,6 (21X3) VT	0827530	10	UC-WMCO 2,1 (21X3) VT	0827554	10
	blue	UC-WMCO 1,6 (21X3) BU	0827526	10	UC-WMCO 2,1 (21X3) BU	0807550	10
	green	UC-WMCO 1,6 (21X3) GN	0827527	10	UC-WMCO 2,1 (21X3) GN	0827551	10
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
Assembly tool , for easily sliding on UC-WMCO 1,6 and UC-WMCO 2,1 conductor markers		UC-WMCO 2,1 TOOL	0827803	10	UC-WMCO 2,1 TOOL	0827803	10
Assembly tool set , for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers		UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

UniCard slide-on conductor marking



Markers for conductor diameters from 2.1 to 2.9 mm



Markers for conductor diameters from 2.9 to 3.6 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	2.1 ... 2.9			2.9 ... 3.6		
Conductor cross section range	[mm²]	0.75 ... 1.5			1.5 ... 2.5		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard , for subsequent marking of conductors, lettering field size 12 x 3.5 mm, 40-section, 10 individual labels per strip							
	white	UC-WMCO 2,9 (12X3,5)	0827148	10			
	red	UC-WMCO 2,9 (12X3,5) RD	0827564	10			
	orange	UC-WMCO 2,9 (12X3,5) OG	0827565	10			
	yellow	UC-WMCO 2,9 (12X3,5) YE	0827561	10			
	violet	UC-WMCO 2,9 (12X3,5) VT	0827566	10			
	blue	UC-WMCO 2,9 (12X3,5) BU	0827562	10			
	green	UC-WMCO 2,9 (12X3,5) GN	0827563	10			
UniCard , for subsequent marking of conductors, lettering field size 21 x 3.5 mm, 40-section, 10 individual labels per strip							
	white	UC-WMCO 2,9 (21X3,5)	0827162	10			
	red	UC-WMCO 2,9 (21X3,5) RD	0827576	10			
	orange	UC-WMCO 2,9 (21X3,5) OG	0827577	10			
	yellow	UC-WMCO 2,9 (21X3,5) YE	0827573	10			
	violet	UC-WMCO 2,9 (21X3,5) VT	0827578	10			
	blue	UC-WMCO 2,9 (21X3,5) BU	0827574	10			
	green	UC-WMCO 2,9 (21X3,5) GN	0827575	10			
UniCard , for subsequent marking of conductors, lettering field size 12 x 4.5 mm, 32-section, 8 individual labels per strip							
	white				UC-WMCO 3,6 (12X4,5)	0827176	10
	red				UC-WMCO 3,6 (12X4,5) RD	0827588	10
	orange				UC-WMCO 3,6 (12X4,5) OG	0827589	10
	yellow				UC-WMCO 3,6 (12X4,5) YE	0827585	10
	violet				UC-WMCO 3,6 (12X4,5) VT	0827590	10
	blue				UC-WMCO 3,6 (12X4,5) BU	0827586	10
	green				UC-WMCO 3,6 (12X4,5) GN	0827587	10
UniCard , for subsequent marking of conductors, lettering field size 21 x 4.5 mm, 32-section, 8 individual labels per strip							
	white				UC-WMCO 3,6 (21X4,5)	0827190	10
	red				UC-WMCO 3,6 (21X4,5) RD	0827600	10
	orange				UC-WMCO 3,6 (21X4,5) OG	0827601	10
	yellow				UC-WMCO 3,6 (21X4,5) YE	0827597	10
	violet				UC-WMCO 3,6 (21X4,5) VT	0827602	10
	blue				UC-WMCO 3,6 (21X4,5) BU	0827598	10
	green				UC-WMCO 3,6 (21X4,5) GN	0827599	10
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
Assembly tool , for easily sliding on UC-WMCO 2,9 ... and UC-WMCO 3,6 ... conductor markers							
		UC-WMCO 3,6 TOOL	0827804	10	UC-WMCO 3,6 TOOL	0827804	10
Assembly tool set , for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers							
		UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

Conductor and cable marking

UniCard slide-on conductor marking

- The UC-WMCO ... UniCard marking range includes slide-on markers for the subsequent marking of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK or plotter

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Markers for conductor diameters from 3.6 to 4.9 mm, lettering field size 12 x 5 mm

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Markers for conductor diameters from 3.6 to 4.9 mm, lettering field size 21 x 5 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range	[°C]	-40 ... 120			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Conductor diameter range	[mm]	3.6 ... 4.9			3.6 ... 4.9		
Conductor cross section range	[mm²]	2.5 ... 4			2.5 ... 4		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard , for subsequent marking of conductors, lettering field size 12 x 5 mm, 24-section, 6 individual labels per strip							
	white	UC-WMCO 4,9 (12X5)	0827733	5			
	red	UC-WMCO 4,9 (12X5) RD	0827737	5			
	orange	UC-WMCO 4,9 (12X5) OG	0827738	5			
	yellow	UC-WMCO 4,9 (12X5) YE	0827734	5			
	violet	UC-WMCO 4,9 (12X5) VT	0827739	5			
	blue	UC-WMCO 4,9 (12X5) BU	0827735	5			
	green	UC-WMCO 4,9 (12X5) GN	0827736	5			
UniCard , for subsequent marking of conductors, lettering field size 21 x 5 mm, 24-section, 6 individual labels per strip							
	white	UC-WMCO 4,9 (21X5)	0827747	5			
	red	UC-WMCO 4,9 (21X5) RD	0827751	5			
	orange	UC-WMCO 4,9 (21X5) OG	0827752	5			
	yellow	UC-WMCO 4,9 (21X5) YE	0827748	5			
	violet	UC-WMCO 4,9 (21X5) VT	0827753	5			
	blue	UC-WMCO 4,9 (21X5) BU	0827749	5			
	green	UC-WMCO 4,9 (21X5) GN	0827750	5			
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 7	5146568	1	P1 UC-MAG 7	5146568	1
Assembly tool, for easily sliding on UC-WMCO 4,9 ... conductor markers							
		UC-WMCO 5,8 TOOL	0827805	10	UC-WMCO 5,8 TOOL	0827805	10
Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers							
		UC-WMCO TOOL SET	0827807	1	UC-WMCO TOOL SET	0827807	1

Conductor marking with ferrules that can be marked

Can be marked using:



UV LED technology



Ferrules for conductors with a cross section of 0.5 to 2.5 mm², lettering field size: 15 x 4 mm

- Ferrules can be marked with BLUEMARK
- Crimping and marking in one step
- Highly resistant and optimum printing quality, thanks to modern UV printing technology
- Ferrules made from electrolytic copper
- Electrogalvanized
- Corresponding crimping pliers can be found on page 389

ERIC

General data	
Can be marked using	
Material / coating	
Temperature range	[°C]
Components	

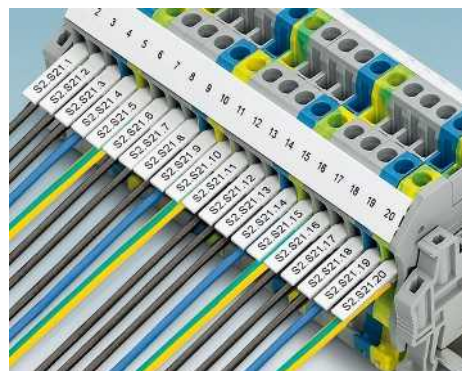
Technical data	
BLUEMARK CLED • BLUEMARK LED	
E-CU / tin-plated (galvanic)	
-40 ... 120	
Free from silicone and halogen	

Description	Color
Ferrules , with plastic sleeve that can be marked, color range according to DIN 46228-4: 1990-09	
20 pcs., 0.5 mm ² cross section	white
20 pcs., 0.75 mm ² cross section	gray
20 pcs., 1.0 mm ² cross section	red
20 pcs., 1.5 mm ² cross section	white
20 pcs., 2.5 mm ² cross section	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
AI-WM 0,5-8 WH	3240542	780
AI-WM 0,75-8 GY	3240543	780
AI-WM 1-8 RD	3240544	780
AI-WM 1,5-8 WH	3240545	780
AI-WM 2,5-8 BU	3240572	528

Magazine for BLUEMARK printer, for accommodating ferrules with insulating collar that can be marked	
For 0.5 – 1.5 mm ²	
For 2.5 mm ²	

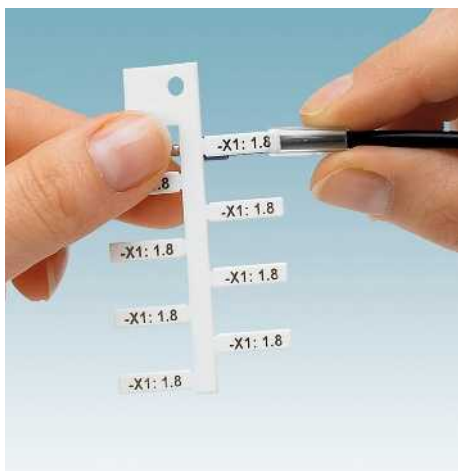
Accessories		
	Order No.	Pcs. / Pkt.
BLUEMARK MAG AI-WM	5146567	1
BLUEMARK MAG AI-WM 2,5	5146640	1



Conductor and cable marking

UniCard conductor marking for marking collars

Can be marked using:



UV LED technology



Plotter

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Marker with lettering field size
10 x 4 mm to 18 x 4 mm

- The UC-WMT ... UniCard marking range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 214
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- To simplify mounting, the insert labels are arranged on UniCard sheets so that they can be separated branch by branch
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:

PATG/PATO ... system, see page 214.

General data

Can be marked using
Material
Inflammability class according to UL 94
Temperature range [°C]
Components

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
Free from silicone and halogen

Description	Color
-------------	-------

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 10 x 4 mm, 48-section, 8 individual labels per strip

- white
- red
- orange
- yellow
- violet
- blue
- green

Type	Order No.	Pcs. / Pkt.
------	-----------	-------------

UC-WMT (10X4)	0819372	10
UC-WMT (10X4) RD	0821001	10
UC-WMT (10X4) OG	0823986	10
UC-WMT (10X4) YE	0819385	10
UC-WMT (10X4) VT	0825360	10
UC-WMT (10X4) BU	0820992	10
UC-WMT (10X4) GN	0823999	10

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 12 x 4 mm, 32-section, 8 individual labels per strip

- white
- red
- orange
- yellow
- violet
- blue
- green

UC-WMT (12X4)	0823517	10
UC-WMT (12X4) RD	0823614	10
UC-WMT (12X4) OG	0823588	10
UC-WMT (12X4) YE	0823591	10
UC-WMT (12X4) VT	0825378	10
UC-WMT (12X4) BU	0823575	10
UC-WMT (12X4) GN	0823601	10

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 15 x 4 mm, 32-section, 8 individual labels per strip

- white
- red
- orange
- yellow
- violet
- blue
- green

UC-WMT (15X4)	0819398	10
UC-WMT (15X4) RD	0821043	10
UC-WMT (15X4) OG	0824037	10
UC-WMT (15X4) YE	0819408	10
UC-WMT (15X4) VT	0825361	10
UC-WMT (15X4) BU	0821030	10
UC-WMT (15X4) GN	0824040	10

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 18 x 4 mm, 24-section, 8 individual labels per strip

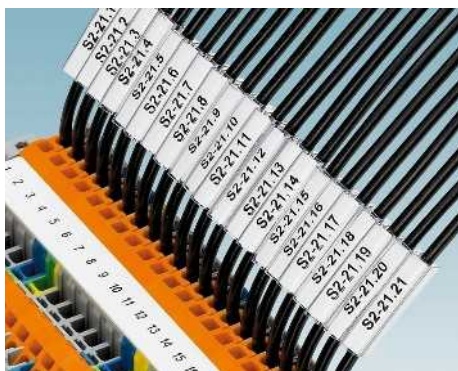
- white
- red
- orange
- yellow
- violet
- blue
- green

UC-WMT (18X4)	0820293	10
UC-WMT (18X4) RD	0821085	10
UC-WMT (18X4) OG	0824079	10
UC-WMT (18X4) YE	0820303	10
UC-WMT (18X4) VT	0825362	10
UC-WMT (18X4) BU	0821072	10
UC-WMT (18X4) GN	0824082	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 4	5146105	1
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UniCard conductor marking for marking collars



Marker with lettering field size 23 x 4 mm



Marker with lettering field size 30 x 4 mm

		Technical data			Technical data		
General data		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Can be marked using		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 120			-40 ... 120		
Temperature range [°C]		Free from silicone and halogen			Free from silicone and halogen		
Components							
		Ordering data			Ordering data		
Description		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard , with insert strips for PATG and PATO marking collars, for lettering field size 23 x 4 mm, 24-section, 8 individual labels strip							
	white	UC-WMT (23X4)	0819411	10			
	red	UC-WMT (23X4) RD	0821124	10			
	orange	UC-WMT (23X4) OG	0824118	10			
	yellow	UC-WMT (23X4) YE	0819424	10			
	violet	UC-WMT (23X4) VT	0825363	10			
	blue	UC-WMT (23X4) BU	0821111	10			
	green	UC-WMT (23X4) GN	0824121	10			
	silver	UC-WMT (23X4) SR	0802719	10			
UniCard sheet , with insert strips for PATG and PATO marking collars, for lettering field size 30 x 4 mm, 24-section, 8 individual labels strip							
	white	UC-WMT (30X4)	0819437	10			
	red	UC-WMT (30X4) RD	0821166	10			
	orange	UC-WMT (30X4) OG	0824150	10			
	yellow	UC-WMT (30X4) YE	0819440	10			
	violet	UC-WMT (30X4) VT	0825364	10			
	blue	UC-WMT (30X4) BU	0821153	10			
	green	UC-WMT (30X4) GN	0824163	10			
		Accessories			Accessories		
Magazine , for CMS-P1-PLOTTER		P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard cable marking for assembly with cable binders

Can be marked using:



UV LED technology



Plotter

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Markers for cable diameters > 7 mm

- The UC-WMTB ... and UC-WMTBA ... UniCard marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- For large-surface marking of conductors and cables > 7 mm in diameter
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
For more cable markers for fixing with cable binders, visit: phoenixcontact.net/products
For corresponding cable binders, see from page 588.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Cable diameter range	[mm]
Cable cross section range	[mm ²]

Technical data
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
Free from silicone and halogen
> 7
> 16

Description	Color
UniCard , for mounting with two cable binders, lettering field size: 44 x 15 mm, 4-section, 1 individual label per strip	
	white
	red
	orange
	yellow
	violet
	blue
	green
	silver
	brown
UniCard , for mounting with one cable binder	
3-section, lettering field size: 52 x 30 mm	white
2-section, lettering field size: 52 x 50 mm	white
Magazine , for CMS-P1-PLOTTER	

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMTB (44X15)	0828376	10
UC-WMTB (44X15) RD	0828377	10
UC-WMTB (44X15) OG	0828378	10
UC-WMTB (44X15) YE	0828379	10
UC-WMTB (44X15) VT	0828380	10
UC-WMTB (44X15) BU	0828381	10
UC-WMTB (44X15) GN	0828382	10
UC-WMTB (44X15) SR	0828383	10
UC-WMTB (44X15) BN	0828384	10
UC-WMTB (52X30)	5775288	10
UC-WMTB (52X50)	5775289	10
Accessories		
P1 UC-MAG 6	5146121	1



UniCard cable marking for assembly with cable binders

Notes:
 Cable binders can be used for UC-WMTBA... up to a width of 5 mm.
 For corresponding cable binders, see from page 588.



Markers for cable diameters > 4 mm

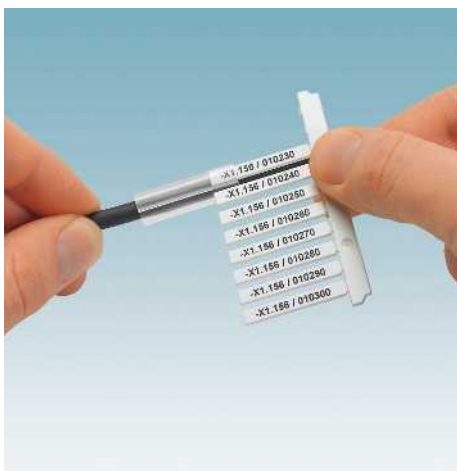


Markers for cable diameters > 6 mm

General data		Technical data			Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER			BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Material		PA			PA		
Inflammability class according to UL 94		V2			V2		
Temperature range		-40 ... 120 [°C]			-40 ... 120		
Components		Free from silicone and halogen			Free from silicone and halogen		
Cable diameter range		> 4 [mm]			> 6		
Description		Ordering data			Ordering data		
UniCard, for assembly with cable binders, lettering field size 24 x 5 mm, 12-section, 4 individual labels per strip		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
white	UC-WMTBA (24X5)	0820426	10	UC-WMTBA (29X8)	0820183	10	
red	UC-WMTBA (24X5) RD	0820565	10	UC-WMTBA (29X8) RD	0820604	10	
orange	UC-WMTBA (24X5) OG	0825342	10	UC-WMTBA (29X8) OG	0825345	10	
yellow	UC-WMTBA (24X5) YE	0820439	10	UC-WMTBA (29X8) YE	0820390	10	
violet	UC-WMTBA (24X5) VT	0825344	10	UC-WMTBA (29X8) VT	0825347	10	
blue	UC-WMTBA (24X5) BU	0820552	10	UC-WMTBA (29X8) BU	0820594	10	
green	UC-WMTBA (24X5) GN	0825343	10	UC-WMTBA (29X8) GN	0825346	10	
UC-WMTBA (29X8) SR				0820749		10	
UniCard, for assembly with cable binders, lettering field size 29 x 6 mm, 12-section, 4 individual labels per strip				UC-WMTBA (60X11)	0820468	10	
white				UC-WMTBA (60X11) RD	0820646	10	
red				UC-WMTBA (60X11) OG	0825348	10	
orange				UC-WMTBA (60X11) YE	0820471	10	
yellow				UC-WMTBA (60X11) VT	0825350	10	
violet				UC-WMTBA (60X11) BU	0820633	10	
blue				UC-WMTBA (60X11) GN	0825349	10	
green							
UniCard, for assembly with cable binders, lettering field size 60 x 11 mm, 4-section, 1 individual label per strip							
white							
red							
orange							
yellow							
violet							
blue							
green							
Magazine, for CMS-P1-PLOTTER		Accessories			Accessories		
		P1 UC-MAG 1	5146079	1	P1 UC-MAG 1	5146079	1

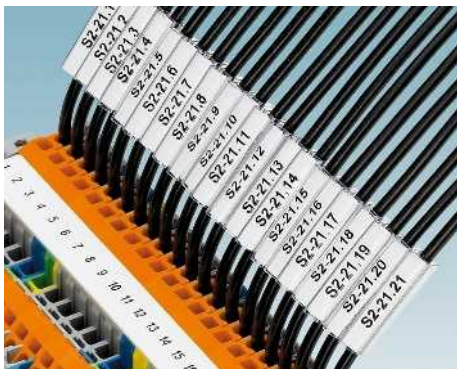
Conductor and cable marking

UniCard conductor marking for marking collars



- The UCT-WMT ... UniCard marking range includes markers for conductor marking with marking collars from the PATG/PATO ... system; see page 214
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK, TOPMARK LASER, and THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- To simplify mounting, the insert labels are arranged on UniCard sheets so that they can be separated branch by branch
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
PATG/PATO ... system, see page 214.



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED
FOR YOU



Marker with lettering field size from 10 x 4 mm to 18 x 4 mm

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Components

[°C]

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC V0

V0

-40 ... 120

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 10 x 4 mm, 60-section	white	UCT-WMT (10X4)	0801430	10
	red	UCT-WMT (10X4) RD	0801433	10
	orange	UCT-WMT (10X4) OG	0801434	10
	yellow	UCT-WMT (10X4) YE	0801431	10
	violet	UCT-WMT (10X4) VT	0801436	10
	blue	UCT-WMT (10X4) BU	0801437	10
	green	UCT-WMT (10X4) GN	0801435	10
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 12 x 4 mm, 50-section	white	UCT-WMT (12X4)	0801438	10
	red	UCT-WMT (12X4) RD	0801440	10
	orange	UCT-WMT (12X4) OG	0801441	10
	yellow	UCT-WMT (12X4) YE	0801439	10
	violet	UCT-WMT (12X4) VT	0801443	10
	blue	UCT-WMT (12X4) BU	0801444	10
	green	UCT-WMT (12X4) GN	0801442	10
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 15 x 4 mm, 50-section	white	UCT-WMT (15X4)	0801446	10
	red	UCT-WMT (15X4) RD	0801448	10
	orange	UCT-WMT (15X4) OG	0801449	10
	yellow	UCT-WMT (15X4) YE	0801447	10
	violet	UCT-WMT (15X4) VT	0801451	10
	blue	UCT-WMT (15X4) BU	0801452	10
	green	UCT-WMT (15X4) GN	0801450	10
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 18 x 4 mm, 40-section	white	UCT-WMT (18X4)	0801462	10
	red	UCT-WMT (18X4) RD	0801464	10
	orange	UCT-WMT (18X4) OG	0801465	10
	yellow	UCT-WMT (18X4) YE	0801463	10
	violet	UCT-WMT (18X4) VT	0801467	10
	blue	UCT-WMT (18X4) BU	0801468	10
	green	UCT-WMT (18X4) GN	0801466	10

Accessories

Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)

THERMOMARK CARD-UCT-MAG7 0801734 1

UniCard conductor marking for marking collars



Marker with lettering field size 23 x 4 mm/30 x 4 mm

General data		Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Material		PC V0		
Inflammability class according to UL 94		V0		
Temperature range	[°C]	-40 ... 120		
Components		Free from silicone and halogen		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 23 x 4 mm	white	UCT-WMT (23X4)	0801453	10
	red	UCT-WMT (23X4) RD	0801455	10
	orange	UCT-WMT (23X4) OG	0801456	10
	yellow	UCT-WMT (23X4) YE	0801454	10
	violet	UCT-WMT (23X4) VT	0801459	10
	blue	UCT-WMT (23X4) BU	0801460	10
	green	UCT-WMT (23X4) GN	0801457	10
UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 30 x 4 mm	white	UCT-WMT (30X4)	0801422	10
	red	UCT-WMT (30X4) RD	0801424	10
	orange	UCT-WMT (30X4) OG	0801425	10
	yellow	UCT-WMT (30X4) YE	0801423	10
	violet	UCT-WMT (30X4) VT	0801427	10
	blue	UCT-WMT (30X4) BU	0801428	10
	green	UCT-WMT (30X4) GN	0801426	10
Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)		Accessories		
		THERMOMARK CARD-UCT-MAG7	0801734	1

Marking and labeling - MARKING system

Conductor and cable marking

UniCard slide-on conductor marking

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED
FOR YOU



Marker for conductor diameters of 1.5 to 4.7 mm

- The UCT-WMS ... UniCard marking range includes markers that can be slid onto conductors
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The markers support multiline marking
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

[°C]

Components

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC V0

V0

-40 ... 120

Free from silicone and halogen

Ordering data

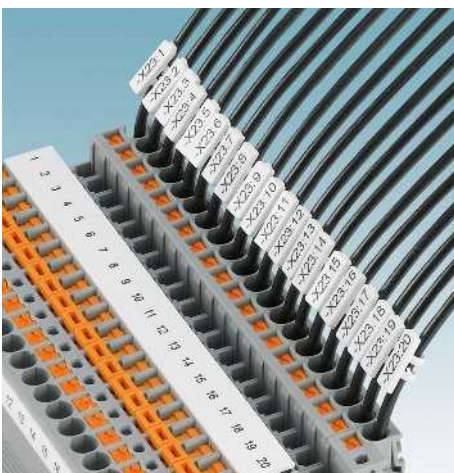
Description	Color
UniCard , for marking conductors with a diameter of 1.5 - 3.2 mm	
55-section, lettering field size: 12 x 4 mm	white yellow
45-section, lettering field size: 12 x 5.5 mm, for conductors with a diameter of 2.5 - 4.7 mm	white yellow

Type	Order No.	Pcs. / Pkt.
UCT-WMS 3,2 (12X4)	0828570	8
UCT-WMS 3,2 (12X4) YE	0828572	8
UCT-WMS 4,7 (12X5,5)	0828571	6
UCT-WMS 4,7 (12X5,5) YE	0828573	6

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-WMS ...

Accessories

Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG3	5146613	1



Clip-on UniCard conductor marking

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

PRINTED
FOR YOU



Markers for conductor diameters from 2 to 4.7 mm

- The UCT-WMCO ... UniCard marking range includes markers for the subsequent marking of conductors by clipping on
- Secure tight fit even in the event of vibrations
- The markers, which are supplied in uniform sheets, can be marked quickly and easily with the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK... printers
- The format automatically ensures printing with a high level of positional accuracy
- Large-surface marking in a space-saving design
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

free from silicone, halogen, and cadmium

Ordering data

Description	Color
UniCard , for subsequent marking of conductors, conductor diameter 2 - 2.9 mm Lettering field size: 12 x 4 mm	white yellow
Lettering field size: 18 x 4 mm	white yellow
UniCard , for subsequent marking of conductors, conductor diameter 2.9 - 3.5 mm Lettering field size: 12 x 4 mm	white yellow
Lettering field size: 18 x 4 mm	white yellow
UniCard , for subsequent marking of conductors, conductor diameter 3.5 - 4.1 mm Lettering field size: 12 x 4 mm	white yellow
Lettering field size: 18 x 4 mm	white yellow
UniCard , for subsequent marking of conductors, conductor diameter 4.1 - 4.7 mm Lettering field size: 12 x 4 mm	white yellow
Lettering field size: 18 x 4 mm	white yellow

Type	Order No.	Pcs. / Pkt.
UCT-WMCO 2,9 (12X4)	0830780	9
UCT-WMCO 2,9 (12X4) YE	0831204	9
UCT-WMCO 2,9 (18X4)	0830781	9
UCT-WMCO 2,9 (18X4) YE	0831205	9
UCT-WMCO 3,5 (12X4)	0830782	7
UCT-WMCO 3,5 (12X4) YE	0831206	7
UCT-WMCO 3,5 (18X4)	0830783	7
UCT-WMCO 3,5 (18X4) YE	0831207	7
UCT-WMCO 4,1 (12X4)	0830784	6
UCT-WMCO 4,1 (12X4) YE	0831208	6
UCT-WMCO 4,1 (18X4)	0830785	6
UCT-WMCO 4,1 (18X4) YE	0831209	6
UCT-WMCO 4,7 (12X4)	0830786	6
UCT-WMCO 4,7 (12X4) YE	0831210	6
UCT-WMCO 4,7 (18X4)	0830787	6
UCT-WMCO 4,7 (18X4) YE	0831211	6

Magazine, for THERMOMARK CARD ...,

for accommodating: UCT-WMCO...(12 x 4)

Magazine for the THERMOMARK CARD printer,

for accommodating: UCT sheets (UCT-WMCO...(18 x 4))

Accessories

THERMOMARK CARD-UCT-MAG25	0802935	1
THERMOMARK CARD-UCT-MAG28	0803205	1



Conductor and cable marking

UniCard cable marking for assembly with cable binders

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

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Markers for cable diameters > 5mm

- The UCT-WMTBA ... UniCard marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK ...
- The format automatically ensures printing with a high level of positional accuracy
- For large-surface marking of conductors and cables > 5 mm in diameter
- The sheets provide space to include function texts
- Thanks to their angular shape, the markers fit perfectly onto cables
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
For cable binders up to 5 mm wide.
For matching cable binders, see page 588 onwards or the product area on our website at phoenixcontact.net/products.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Description	Color
UniCard, for assembly with cable binders, for conductor diameters > 5 mm, 15-section, 5 individual labels per strip	
Lettering field size: 24 x 4 mm	white yellow
UniCard, for assembly with cable binders, for conductor diameters > 6 mm, 12-section, 4 individual labels per strip	
Lettering field size: 29 x 6 mm	white yellow
UniCard, for assembly with cable binders, for conductor diameters > 6 mm, 3-section, 1 individual label per strip	
Lettering field size: 40 x 17 mm	white
Lettering field size: 40 x 17 mm	white

Magazine, for THERMOMARK CARD ..., for accommodating: UCT-WMTBA ...

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
PC
V0
-40 ... 120
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-WMTBA (24X4)	1014082	10
UCT-WMTBA (24X4) YE	1014083	10
UCT-WMTBA (29X6)	1014084	10
UCT-WMTBA (29X6) YE	1014085	10
UCT-WMTBA (40X17)	1014086	10
UCT-WMTBA (40X17)	1014086	10

Accessories

THERMOMARK CARD-UCT-MAG27	0802989	1
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new

UniCard cable marking for assembly with cable binders

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Markers for cable diameters > 2.9 mm

- The UCT-WMTB ... UniCard marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and precisely using the TOPMARK LASER, THERMOMARK CARD, and the BLUEMARK ...
- The format automatically ensures printing with a high degree of positioning accuracy
- For large-surface marking of conductors and cables > 2.9 mm in diameter
- The sheets provide space to include function texts
- Due to the lateral notches for the cable binders, the markers optimally adjust to smaller cable and conductor diameters > 2.9 mm
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Description	Color
UniCard , for assembly with cable binders, for conductor diameters > 2.9 mm, 6-section, 1 individual label per strip	
Lettering field size: 29 x 8 mm	white
Lettering field size: 29 x 8 mm	blue
Lettering field size: 29 x 8 mm	green
Lettering field size: 29 x 8 mm	red
Lettering field size: 29 x 8 mm	gray
Lettering field size: 29 x 8 mm	yellow

Magazine, for THERMOMARK CARD ...
for accommodating UCT-EM (10 x 7), UCT-WMTB (29 x 8)

Technical data	
THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER	
PC V0	
V0	
-40 ... 120	
Free from silicone and halogen	

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-WMTB (29X8)	0803321	10
UCT-WMTB (29X8) BU	0803324	10
UCT-WMTB (29X8) GN	0803325	10
UCT-WMTB (29X8) RD	0803323	10
UCT-WMTB (29X8) GY	0803326	10
UCT-WMTB (29X8) YE	0803322	10

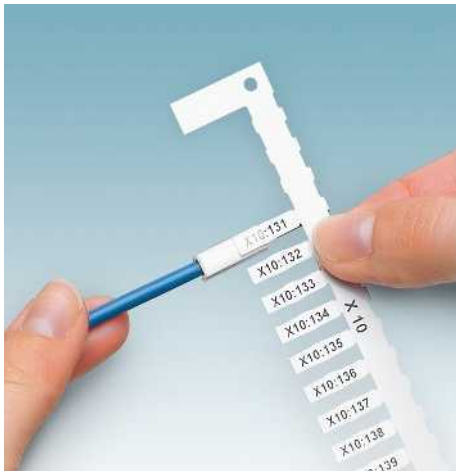
Accessories		
THERMOMARK CARD-UCT-MAG20	0830751	1

Notes:
For matching cable binders, see page 588 onwards or the product area on our website at phoenixcontact.net/products.

Marking and labeling - MARKING system

Conductor and cable marking

UniSheet conductor marking for marking collars



- The US-WMT ... UniSheet marking range includes markers for conductor marking with marking collars from the PATG/PATO ... system
- The markers, which are supplied as uniform cards, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- Marked insert strips are simply inserted into the collars. This protects the marking against contamination
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

Notes:
For PATG/PATO... system marking collars, see page 214.

Can be marked using:



Thermal transfer for sheets and cards

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Marker with lettering field size 10 x 4 mm

General data	
Can be marked using	
Number of individual labels	
Number of individual labels per strip	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

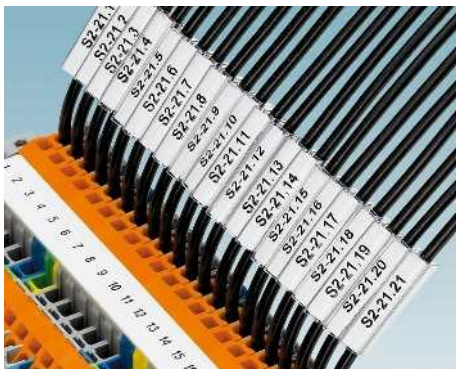
Technical data	
THERMOMARK CARD	
112	
14	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet, with insert strips for PATG and PATO marking collars, 112-section, lettering field size 10 x 4 mm	
	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-WMT (10X4)	0828765	10
US-WMT (10X4) RD	0829273	10
US-WMT (10X4) OG	0829274	10
US-WMT (10X4) YE	0828952	10
US-WMT (10X4) VT	0829276	10
US-WMT (10X4) BU	0829277	10
US-WMT (10X4) GN	0829278	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1



UniSheet conductor marking for marking collars

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Marker with lettering field size
12 x 4 to 30 x 4 mm

Technical data

General data	
Can be marked using	THERMOMARK CARD
Number of individual labels per strip	14
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 80 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
UniSheet, with insert strips for PATG and PATO marking collars, 96-section, lettering field size 12 x 4 mm		
white US-WMT (12X4)	0828766	10
red US-WMT (12X4) RD	0829280	10
orange US-WMT (12X4) OG	0829281	10
yellow US-WMT (12X4) YE	0828953	10
violet US-WMT (12X4) VT	0829283	10
blue US-WMT (12X4) BU	0829284	10
green US-WMT (12X4) GN	0829285	10
UniSheet, with insert strips for PATG and PATO marking collars, 84-section, lettering field size 15 x 4 mm		
white US-WMT (15X4)	0828767	10
red US-WMT (15X4) RD	0829287	10
orange US-WMT (15X4) OG	0829288	10
yellow US-WMT (15X4) YE	0828954	10
violet US-WMT (15X4) VT	0829290	10
blue US-WMT (15X4) BU	0829291	10
green US-WMT (15X4) GN	0829292	10
UniSheet, with insert strips for PATG and PATO marking collars, 70-section, lettering field size 18 x 4 mm		
white US-WMT (18X4)	0828768	10
red US-WMT (18X4) RD	0829294	10
orange US-WMT (18X4) OG	0829295	10
yellow US-WMT (18X4) YE	0828955	10
violet US-WMT (18X4) VT	0829297	10
blue US-WMT (18X4) BU	0829298	10
green US-WMT (18X4) GN	0829299	10
UniSheet, with insert strips for PATG and PATO marking collars, 56-section, lettering field size 23 x 4 mm		
white US-WMT (23X4)	0828769	10
red US-WMT (23X4) RD	0829301	10
orange US-WMT (23X4) OG	0829302	10
yellow US-WMT (23X4) YE	0828956	10
violet US-WMT (23X4) VT	0829304	10
blue US-WMT (23X4) BU	0829305	10
green US-WMT (23X4) GN	0829306	10
UniSheet, with insert strips for PATG and PATO marking collars, 42-section, lettering field size 30 x 4 mm		
white US-WMT (30X4)	0828770	10
red US-WMT (30X4) RD	0829308	10
orange US-WMT (30X4) OG	0829309	10
yellow US-WMT (30X4) YE	0828957	10
violet US-WMT (30X4) VT	0829311	10
blue US-WMT (30X4) BU	0829312	10
green US-WMT (30X4) GN	0829313	10

Conductor and cable marking

UniSheet conductor marking for assembly with cable binders

Can be marked using:



Thermal transfer for sheets and cards

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Marker for conductor diameters > 13 mm

- The US-WMTB... UniSheet marking range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated marking strips are easy to separate and can be easily fitted
- The sheets provide space to include function texts

Notes:
For corresponding cable binders, see from page 588.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	[°C]
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet , with markers for attachment using cable binders, for a conductor diameter \geq 13 mm	
35-section, lettering field size: 24 x 5 mm	white
	red
	orange
	yellow
	violet
	blue
	green
24-section, lettering field size: 29 x 8 mm, for conductor diameter \geq 13 mm	white
	red
	orange
	yellow
	violet
	blue
	green
12-section, lettering field size: 44 x 15 mm, for conductor diameter \geq 13 mm	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-WMTB (24X5)	0828771	10
US-WMTB (24X5) RD	0829320	10
US-WMTB (24X5) OG	0829321	10
US-WMTB (24X5) YE	0828958	10
US-WMTB (24X5) VT	0829323	10
US-WMTB (24X5) BU	0829324	10
US-WMTB (24X5) GN	0829325	10
US-WMTB (29X8)	0828772	10
US-WMTB (29X8) RD	0829327	10
US-WMTB (29X8) OG	0829328	10
US-WMTB (29X8) YE	0828959	10
US-WMTB (29X8) VT	0829330	10
US-WMTB (29X8) BU	0829331	10
US-WMTB (29X8) GN	0829332	10
US-WMTB (44X15)	0828773	10
US-WMTB (44X15) RD	0829334	10
US-WMTB (44X15) OG	0829335	10
US-WMTB (44X15) YE	0828960	10
US-WMTB (44X15) VT	0829337	10
US-WMTB (44X15) BU	0829338	10
US-WMTB (44X15) GN	0829339	10

Accessories	
Magazine, for THERMOMARK CARD..., for accommodating all US-materials	

Accessories		
	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1



Self-adhesive conductor marking with transparent protective foil

Can be marked using:

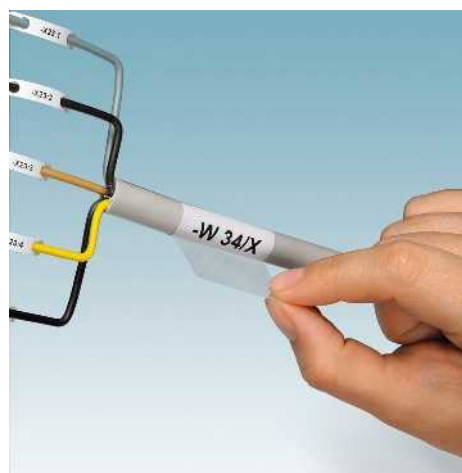


Thermal transfer for sheets and cards

PRINTED
FOR YOU



Marker for conductor diameters of up to 36 mm



- The US-WML ... cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- Quick and easy handling
- Resistant to solvents

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
-50 ... 110
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
Cable marker labels	
32-section, lettering field size: 13 x 13 mm, conductor diameter < 6.0 mm	white
8-section, lettering field size: 19 x 25 mm, conductor diameter < 14.0 mm	white
4-section, lettering field size: 25 x 25 mm, conductor diameter < 36.0 mm	white

Ordering data

Type	Order No.	Pcs. / Pkt.
US-WML 6 (13X13)	0800472	10
US-WML 14 (25X19)	0800473	10
US-WML 36 (25X25)	0800474	10

Magazine , for THERMOMARK CARD..., for accommodating all US-materials
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Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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Marking and labeling - MARKING system

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil

Can be marked using:



Office laser printing



Marker for conductor diameter up to 36 mm

- WML ... cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents

Notes:
Print image may vary depending on laser printer

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
- Office printing systems	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from halogen and cadmium	

Description	Color
Cable marker labels, sheet format: A4, self-adhesive	
1 sheet = 168 labels, up to 3.0 mm Ø	white
1 sheet = 168 labels, up to 3.0 mm Ø	yellow
1 sheet = 77 labels, up to 5.0 mm Ø	white
1 sheet = 77 labels, up to 5.0 mm Ø	yellow
1 sheet = 56 labels, up to 7.5 mm Ø	white
1 sheet = 56 labels, up to 7.5 mm Ø	yellow
1 sheet = 28 labels, up to 14 mm Ø	white
1 sheet = 28 labels, up to 14 mm Ø	yellow
1 sheet = 10 labels, up to 22 mm Ø	white
1 sheet = 10 labels, up to 22 mm Ø	yellow
1 sheet = 14 labels, up to 36 mm Ø	white
1 sheet = 14 labels, up to 36 mm Ø	yellow

Ordering data		
Type	Order No.	Pcs. / Pkt.
WML 3 (13X10)A4	0830687	10
WML 3 (13X10)A4 YE	0830688	10
WML 5 (25X10)A4	0830689	10
WML 5 (25X10)A4 YE	0830690	10
WML 7,5 (25X13)A4	0830691	10
WML 7,5 (25X13)A4 YE	0830692	10
WML 14 (25X19)A4	0830693	10
WML 14 (25X19)A4 YE	0830694	10
WML 22 (35X25)A4	0830695	10
WML 22 (35X25)A4 YE	0830696	10
WML 36 (25X38)A4	0830697	10
WML 36 (25X38)A4 YE	0830698	10



Self-adhesive conductor marking with transparent protective foil



- The cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- Quick and easy handling
- Resistant to solvents

Radio-frequency identification, RFID

- The WML-RFID/HF conductor markers are also equipped with an integrated high-frequency transponder and are used for contact-free identification, data exchange, and localization using an RFID handheld device

Notes:

Due to the wide variety of cable and conductor types, the transponder function must always be checked by the end customer.

WML-RFID/HF conductor markers cannot be marked by the THERMOMARK S1.1 and THERMOMARK X1.1.

Can be marked using:



Thermal transfer for rolls

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FOR YOU



Marker for conductor diameters of up to 46 mm

General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

PVC

-50 ... 110

DIN EN 61010-1 (VDE 0411-1)

Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels				
5000 labels, up to 3 mm Ø	white	WML 3 (13X10)R	0800073	1
3000 labels, up to 5 mm Ø	white	WML 5 (25X10)R	0817523	1
3000 labels, up to 5 mm Ø	yellow	WML 5 (25X10)R YE	0830673	1
7000 labels, up to 6 mm Ø	white	WML 6 (13X13)R	0816252	1
7000 labels, up to 6 mm Ø	yellow	WML 6 (13X13)R YE	0830674	1
4000 labels, up to 7.5 mm Ø	white	WML 7,5 (13X13)R	0800074	1
1500 labels, up to 7.5 mm Ø	white	WML 7,5 (17X9)R	0828444	1
2100 labels, up to 7.5 mm Ø	white	WML 7,5 (25X13)R	0800075	1
1000 labels, up to 12 mm Ø	white	WML 12 (25X19)R	0800076	1
1500 labels, up to 14 mm Ø	white	WML 14 (25X19)R	0817536	1
1500 labels, up to 14 mm Ø	yellow	WML 14 (25X19)R YE	0817549	1
1000 labels, up to 14 mm Ø	white	WML 14 (38X19)R	0817552	1
1500 labels, up to 14 mm Ø	yellow	WML 14 (38X19)R YE	0830675	1
2500 labels, up to 18 mm Ø	white	WML 18 (12X12)R	0817507	1
500 labels, up to 20 mm Ø	white	WML 20 (31X25)R	0828457	1
900 labels, up to 22 mm Ø	white	WML 22 (25X25)R	0800078	1
500 labels, up to 36 mm Ø	white	WML 36 (25X38)R	0817510	1
250 labels, up to 46 mm Ø	white	WML 46 (25X38)R	0800067	1
Cable marker labels, on large roll				
10,000 labels, up to 5 mm Ø	white	WML 5 (25X10)RL	0830676	1
15,000 labels, up to 6 mm Ø	white	WML 6 (13X13)RL	0830677	1
5000 labels, up to 14 mm Ø	white	WML 14 (25X19)RL	0830678	1
3000 labels, up to 14 mm Ø	white	WML 14 (38X19)RL	0830679	1
Cable marker labels, with integrated HF transponder				
900 labels, min. 6 mm to 14 mm Ø	white	WML-RFID/HF 14 (25X19)R	0803386	1



Marking and labeling - MARKING system

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil, halogen-free



- The halogen-free cable marker labels consist of a marking field and a transparent protective foil
- The protective foil is wound over the marking and provides permanent protection against dirt and abrasion
- The cable marker labels do not increase the cross section of the cable, allowing the cable to be subsequently drawn through cable ducts, for example
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

Can be marked using:



Thermal transfer for rolls

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FOR YOU



Marker for conductor diameter up to 36 mm

General data

Can be marked using

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyethylene
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels, halogen-free				
5000 labels, up to 3 mm Ø	white	WML HF 3(13X10)R	0830812	1
5000 labels, up to 3 mm Ø	yellow	WML HF 3(13X10)R YE	0830813	1
3000 labels, up to 5 mm Ø	white	WML HF 5(25X10)R	0830814	1
3000 labels, up to 5 mm Ø	yellow	WML HF 5(25X10)R YE	0830815	1
2100 labels, up to 7.5 mm Ø	white	WML HF 7,5(25X13)R	0830816	1
2100 labels, up to 7.5 mm Ø	yellow	WML HF 7,5(25X13)R YE	0830817	1
1500 labels, up to 14 mm Ø	white	WML HF 14(25X19)R	0830818	1
1500 labels, up to 14 mm Ø	yellow	WML HF 14(25X19)R YE	0830819	1
900 labels, up to 22 mm Ø	white	WML HF 22(25X25)R	0830820	1
900 labels, up to 22 mm Ø	yellow	WML HF 22(25X25)R YE	0830821	1
500 labels, up to 36 mm Ø	white	WML HF 36(25X38)R	0830822	1
500 labels, up to 36 mm Ø	yellow	WML HF 36(25X38)R YE	0830823	1



Self-adhesive conductor marking as a flag, vertical



The WML-FLAGV... conductor marking flags support large-surface marking of conductors with a diameter of up to 6 mm perpendicular to the conductor direction. They are characterized by:

- Can be printed on both sides
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

PRINTED
FOR YOU



Marker for conductor diameter up to 6 mm

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyolefine

-40 ... 60

DIN EN 61010-1 (VDE 0411-1)

Free from halogen and cadmium

Description

Color

Cable marking flags

up to 6 mm Ø, lettering field size: 20 x 10 mm,
2500 labels per roll

white

up to 6 mm Ø, lettering field size: 30 x 10 mm,
2500 labels per roll

white

Ordering data

Type	Order No.	Pcs. / Pkt.
WML-FLAG 6 (20X10)R	0830711	1
WML-FLAG 6 (30X10)R	0830712	1

Self-adhesive conductor marking as a flag, horizontal



The WML-FLAG... conductor marking flags support large-surface marking of conductors with a diameter of up to 6 mm parallel to the conductor direction. They are characterized by:

- Can be printed on both sides
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

PRINTED
FOR YOU



Marker for conductor diameter up to 6 mm

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1

Polyolefine

-40 ... 60

DIN EN 61010-1 (VDE 0411-1)

Free from halogen and cadmium

Description

Color

Cable marking flags

up to 6 mm Ø, lettering field size: 20 x 10 mm,
2500 labels per roll

white

up to 6 mm Ø, lettering field size: 30 x 10 mm,
2500 labels per roll

white

Ordering data

Type	Order No.	Pcs. / Pkt.
WML-FLAGV 6 (20X10)R	0830713	1
WML-FLAGV 6 (30X10)R	0830714	1

Conductor and cable marking

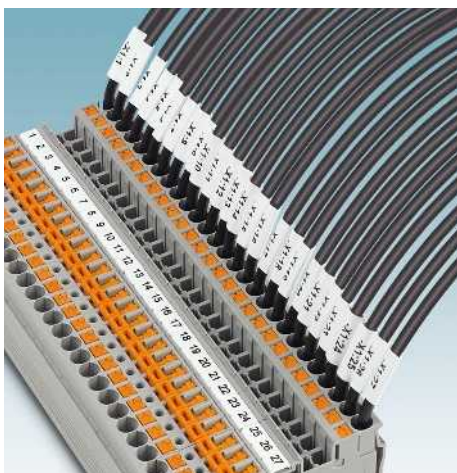
Pre-assembled shrink sleeves, halogen-free



- WMS-2 HF... shrink sleeves provide permanent and captive conductor and cable marking
- The material is offered pre-assembled in a handy conductor format
- Up to four separate markers are secured per row on a carrier material and can each be removed separately
- The conductor is fed through the sleeve and can be fixed by shrinking the sleeve, if desired
- The shrink sleeves also provide electrical insulation and mechanical protection
- The shrink rate is 2:1
- The shrink sleeves can be printed on one side
- The standards DIN EN 45545-2 and NFPA 130:2007 are met

Notes:

The 110-WMTB HF ink ribbon is required for marking WMS-2 HF shrink sleeves, see Printer, Page 36.



Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Conductor diameter from 1.2 to 38 mm,
white and yellow

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.1 • THERMOMARK X1.2

Polyolefine

-30 ... 105

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

2:1

Ordering data

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Shrink rate

Description

Color

Shrink sleeve, for conductor diameter of 1.2 - 2.4 mm

1 roll = 4000 markers, each 15 mm long

white

yellow

1 roll = 2000 markers, each 30 mm long

white

yellow

1 roll = 1000 markers, each 60 mm long

white

yellow

Shrink sleeve, for conductor diameter of 1.5 - 3.2 mm

1 roll = 4000 markers, each 15 mm long

white

yellow

1 roll = 2000 markers, each 30 mm long

white

yellow

1 roll = 1000 markers, each 60 mm long

white

yellow

Shrink sleeve, for conductor diameter of 2.4 - 4.8 mm

1 roll = 4000 markers, each 15 mm long

white

yellow

1 roll = 2000 markers, each 30 mm long

white

yellow

1 roll = 1000 markers, each 60 mm long

white

yellow

Shrink sleeve, for conductor diameter of 3.2 - 6.4 mm

1 roll = 2000 markers, each 30 mm long

white

yellow

1 roll = 1000 markers, each 60 mm long

white

yellow

Shrink sleeve, for conductor diameter of 4.8 - 9.5 mm

1 roll = 4000 markers, each 15 mm long

white

1 roll = 2000 markers, each 30 mm long

white

yellow

1 roll = 1000 markers, each 60 mm long

white

yellow

Shrink sleeve, for conductor diameter of 6.4 - 12.7 mm

1 roll = 1000 markers, each 60 mm long

white

yellow

Shrink sleeve, for conductor diameter of 9.5 - 19.1 mm

1 roll = 1000 markers, each 60 mm long

white

yellow

For conductor diameter of 12.7 - 25.4 mm

1 roll = 1000 markers, each 60 mm long

white

yellow

For conductor diameter of 19.1 - 38.1 mm

1 roll = 1000 markers, each 60 mm long

white

yellow

Type

Order No.

Pcs. / Pkt.

WMS-2 HF 2,4 (15X4)RL

0801000

1

WMS-2 HF 2,4 (15X4)RL YE

0801004

1

WMS-2 HF 2,4 (30X4)RL

0801006

1

WMS-2 HF 2,4 (30X4)RL YE

0801007

1

WMS-2 HF 2,4 (60X4)RL

0801008

1

WMS-2 HF 2,4 (60X4)RL YE

0801009

1

WMS-2 HF 3,2 (15X5)RL

0801001

1

WMS-2 HF 3,2 (15X5)RL YE

0801010

1

WMS-2 HF 3,2 (30X5)RL

0801011

1

WMS-2 HF 3,2 (30X5)RL YE

0801012

1

WMS-2 HF 3,2 (60X5)RL

0801002

1

WMS-2 HF 3,2 (60X5)RL YE

0801013

1

WMS-2 HF 4,8 (15X9)RL

0801014

1

WMS-2 HF 4,8 (15X9)RL YE

0801015

1

WMS-2 HF 4,8 (30X9)RL

0801016

1

WMS-2 HF 4,8 (30X9)RL YE

0801017

1

WMS-2 HF 4,8 (60X9)RL

0801019

1

WMS-2 HF 4,8 (60X9)RL YE

0801020

1

WMS-2 HF 6,4 (30X10)RL

0801022

1

WMS-2 HF 6,4 (30X10)RL YE

0801023

1

WMS-2 HF 6,4 (60X10)RL

0801024

1

WMS-2 HF 6,4 (60X10)RL YE

0801025

1

WMS-2 HF 9,5 (15X16)RL

0801003

1

WMS-2 HF 9,5 (30X16)RL

0801026

1

WMS-2 HF 9,5 (30X16)RL YE

0801027

1

WMS-2 HF 9,5 (60X16)RL

0801028

1

WMS-2 HF 9,5 (60X16)RL YE

0801029

1

WMS-2 HF 12,7 (60X20)RL

0833200

1

WMS-2 HF 12,7 (60X20)RL YE

0833201

1

WMS-2 HF 19,1 (60X30)RL

0833202

1

WMS-2 HF 19,1 (60X30)RL YE

0833203

1

WMS-2 HF 25,4 (60X40)RL

0833204

1

WMS-2 HF 25,4 (60X40)RL YE

0833205

1

WMS-2 HF 38,1 (60X60)RL

0833206

1

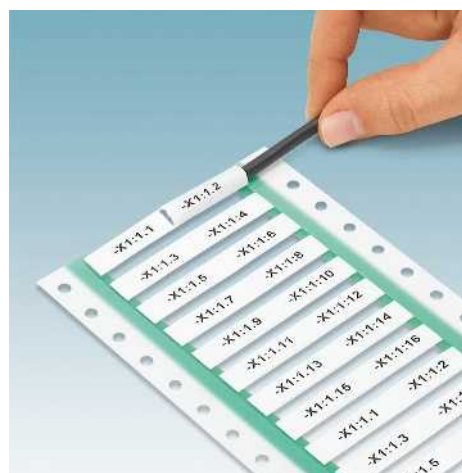
WMS-2 HF 38,1 (60X60)RL YE

0833207

1

Pre-assembled shrink sleeves

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Conductor cross sections from 0.8 to 6.4 mm

- The shrink tubes WMS ... permanently identify conductors and cables
 - The tubes are pre-assembled for optimum use of material
 - Up to four markers per tube are separated by perforation
 - The conductor to be marked is easily threaded through the tube and fixed by shrinking the tube
 - The tubes remain flexible after shrinking
 - The shrink tubes offer the conductors additional electrical insulation and mechanical protection
- The following standards are satisfied:
- UL 224 (125°C, 600 V, all tubing-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:

The special THERMOMARK-RIBBON ... WMSU is required for marking shrink sleeves WMS ..., see Printer, Page 36.

General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

Shrink rate

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Shrink sleeve, for conductor diameters 0.8 - 2.4 mm				
1 roll = 1000 marker, each 15 mm long	white	WMS 2,4 (15X4)R	0800379	1
	yellow	WMS 2,4 (15X4)R YE	0800412	1
1 roll = 500 marker, each 30 mm long	white	WMS 2,4 (30X4)R	0800373	1
	yellow	WMS 2,4 (30X4)R YE	0800407	1
1 roll = 250 marker, each 60 mm long	white	WMS 2,4 (60X4)R	0800363	1
	yellow	WMS 2,4 (60X4)R YE	0800398	1
Shrink sleeve, for conductor diameters 1.0 - 3.2 mm				
1 roll = 1000 marker, each 15 mm long	white	WMS 3,2 (15X5)R	0800380	1
	yellow	WMS 3,2 (15X5)R YE	0800413	1
1 roll = 500 marker, each 30 mm long	white	WMS 3,2 (30X5)R	0800374	1
	yellow	WMS 3,2 (30X5)R YE	0800408	1
1 roll = 250 marker, each 60 mm long	white	WMS 3,2 (60X5)R	0800364	1
	yellow	WMS 3,2 (60X5)R YE	0800399	1
Shrink sleeve, for conductor diameters 1.6 - 4.8 mm				
1 roll = 1000 marker, each 15 mm long	white	WMS 4,8 (15X9)R	0800382	1
	yellow	WMS 4,8 (15X9)R YE	0800414	1
1 roll = 500 marker, each 30 mm long	white	WMS 4,8 (30X9)R	0800375	1
	yellow	WMS 4,8 (30X9)R YE	0800409	1
1 roll = 250 marker, each 60 mm long	white	WMS 4,8 (60X9)R	0800366	1
	yellow	WMS 4,8 (60X9)R YE	0800400	1
Shrink sleeve, for conductor diameters 2.1 - 6.4 mm				
1 roll = 1000 marker, each 15 mm long	white	WMS 6,4 (15X10)R	0801593	1
	white	WMS 6,4 (30X10)R	0800376	1
	yellow	WMS 6,4 (30X10)R YE	0800410	1
	white	WMS 6,4 (60X10)R	0800367	1
	yellow	WMS 6,4 (60X10)R YE	0800401	1

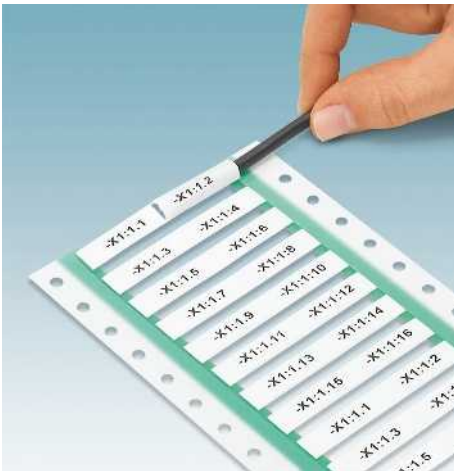


Marking and labeling - MARKING system

Conductor and cable marking

Pre-assembled shrink sleeves

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Conductor diameter from 3.2 to 38 mm,
white and yellow

- The shrink tubes WMS ... permanently identify conductors and cables
- The tubes are pre-assembled for optimum use of material
- Up to four markers per tube are separated by perforation
- The conductor to be marked is easily threaded through the tube and fixed by shrinking the tube
- The tubes remain flexible after shrinking
- The shrink tubes offer the conductors additional electrical insulation and mechanical protection

The following standards are satisfied:

- UL 224 (125°C, 600 V, all tubing-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Shrink rate

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •

THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Shrink sleeve, for conductor diameters 3.2 - 9.5 mm				
1 roll = 500 marker, each 30 mm long	white	WMS 9,5 (30X16)R	0800377	1
	yellow	WMS 9,5 (30X16)R YE	0800411	1
1 roll = 250 marker, each 60 mm long	white	WMS 9,5 (60X16)R	0800368	1
	yellow	WMS 9,5 (60X16)R YE	0800402	1
Shrink sleeve, for conductor diameters 4.2 - 12.7 mm				
1 roll = 250 marker, each 60 mm long	white	WMS 12,7 (60X20)R	0800369	1
	yellow	WMS 12,7 (60X20)R YE	0800403	1
Shrink sleeve, for conductor diameters 6.4 - 19.1 mm				
1 roll = 250 marker, each 60 mm long	white	WMS 19,1 (60X30)R	0800370	1
	yellow	WMS 19,1 (60X30)R YE	0800404	1
Shrink sleeve, for conductor diameters 8.5 - 25.4 mm				
1 roll = 250 marker, each 60 mm long	white	WMS 25,4 (60X40)R	0800371	1
	yellow	WMS 25,4 (60X40)R YE	0800405	1
Shrink sleeve, for conductor diameters 12.7 - 38.1 mm				
1 roll = 250 marker, each 60 mm long	white	WMS 38,1 (60X60)R	0800372	1
	yellow	WMS 38,1 (60X60)R YE	0800406	1



Pre-assembled shrink sleeves

Notes:

The special THERMOMARK-RIBBON ... WMSU is required for marking shrink sleeves WMS ..., see Printer, Page 36

The external THERMOMARK ROLL-ERH media hub is required for RL rolls, see Printer, Page 36
The external THERMOMARK-ERH 500 media hub is required for RXL rolls, see Printer, Page 36.

PRINTED
FOR YOU



Conductor diameter from 0.8 to 4.8 mm, white and yellow, on large roll

PRINTED
FOR YOU



Conductor diameter from 0.8 to 4.8 mm, white and yellow, on extra large roll

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Shrink rate

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyolefine

-55 ... 135

DIN EN 61010-1 (VDE 0411-1)

Halogen-free

3:1

Ordering data

Type	Order No.	Pcs. / Pkt.
Shrink sleeve , for conductor diameters 0.8 - 2.4 mm		
1 roll = 4000 marker, each 15 mm long		white
1 roll = 10000 marker, each 15 mm long		white
1 roll = 2000 marker, each 30 mm long		white
1 roll = 5000 marker, each 30 mm long		white
1 roll = 1000 marker, each 60 mm long		white
1 roll = 2500 marker, each 60 mm long		white
Shrink sleeve , for conductor diameters 1.0 - 3.2 mm		
1 roll = 4000 marker, each 15 mm long		white
1 roll = 2000 marker, each 30 mm long		white
1 roll = 1000 marker, each 60 mm long		white
1 roll = 2500 marker, each 60 mm long		yellow
Shrink sleeve , for conductor diameters 1.6 - 4.8 mm		
1 roll = 4000 marker, each 15 mm long		white
1 roll = 10000 marker, each 15 mm long		white
1 roll = 2000 marker, each 30 mm long		white
1 roll = 5000 marker, each 30 mm long		white
1 roll = 1000 marker, each 60 mm long		white
1 roll = 2500 marker, each 60 mm long		yellow
Shrink sleeve , for conductor diameters 2.1 - 6.4 mm		
1 roll = 4000 marker, each 15 mm long		white
1 roll = 2500 marker, each 15 mm long		white
1 roll = 2500 marker, each 60 mm long		yellow
Shrink sleeve , for conductor diameters 3.2 - 9.5 mm		
1 roll = 1000 marker, each 60 mm long		white
		yellow
Shrink sleeve , for conductor diameters 4.2 - 12.7 mm		
1 roll = 1000 marker, each 60 mm long		yellow
Shrink sleeve , for conductor diameters 6.4 - 19.1 mm		
1 roll = 1000 marker, each 60 mm long		yellow

Ordering data

Type	Order No.	Pcs. / Pkt.
Shrink sleeve , for conductor diameters 0.8 - 2.4 mm		
WMS 2,4 (15X4)RL	0800389	1
WMS 2,4 (30X4)RL	0800386	1
WMS 2,4 (60X4)RL	0800383	1
WMS 2,4 (15X4)RXL	0800396	1
WMS 2,4 (30X4)RXL	0800394	1
WMS 2,4 (60X4)RXL	0800392	1
Shrink sleeve , for conductor diameters 1.0 - 3.2 mm		
WMS 3,2 (15X5)RL	0800390	1
WMS 3,2 (30X5)RL	0800387	1
WMS 3,2 (60X5)RL	0800384	1
WMS 3,2 (60X5)RXL YE	0803102	1
Shrink sleeve , for conductor diameters 1.6 - 4.8 mm		
WMS 4,8 (15X9)RL	0800391	1
WMS 4,8 (30X9)RL	0800388	1
WMS 4,8 (60X9)RL	0800385	1
WMS 4,8 (15X9)RXL	0800397	1
WMS 4,8 (30X9)RXL	0800395	1
WMS 4,8 (30X9)RXL YE	0803313	1
WMS 4,8 (60X9)RXL	0800393	1
WMS 4,8 (60X9)RXL YE	0803103	1
Shrink sleeve , for conductor diameters 2.1 - 6.4 mm		
WMS 6,4 (15X10)RL	0801594	1
WMS 6,4 (15X10)RXL	0801595	1
WMS 6,4 (60X10)RXL YE	0803104	1
Shrink sleeve , for conductor diameters 3.2 - 9.5 mm		
WMS 9,5 (60X16)RL	0803105	1
WMS 9,5 (60X16)RL YE	0803106	1
Shrink sleeve , for conductor diameters 4.2 - 12.7 mm		
WMS 12,7 (60X20)RL YE	0803107	1
Shrink sleeve , for conductor diameters 6.4 - 19.1 mm		
WMS 19,1 (60X30)RL YE	0803108	1

Conductor and cable marking

Continuous shrink sleeve

Can be marked using:



Thermal transfer for rolls

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Conductor diameter from 0.8 to 50.8 mm,
white

- The shrink tubes are automatically perforated or cut to the length required in the printing process
- Are available in the form of continuous on-roll goods and can be printed on both sides using the THERMOMARK W2 printer
- Individual markers can be cut to any length up to 1 m

The following standards are satisfied:

- UL 224 (125°C, 600 V, all tubing-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, all tubing-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:

The special THERMOMARK-RIBBON ... WMSU is required for marking shrink sleeves WMS ..., see Printer, Page 36
How to use the external media hubs:
THERMOMARK ROLL:
Use the external THERMOMARK ROLL-ERH media hub for R rolls and the external THERMOMARK-ERH 500 for large rolls, see Printer, Page 36.
THERMOMARK ROLL X1 and THERMOMARK W2:
R rolls can be inserted directly in the device, use the THERMOMARK-ERH 500 for large rolls, see Printer, Page 36.

General data

Can be marked using

Material
Temperature range
Wipe resistance
Components
Shrink rate

[°C]

Description

Shrink sleeve

1 roll = 30 m, Conductor diameter: 0.8 - 2.4 mm
1 roll = 30 m, Conductor diameter: 1.0 - 3.2 mm
1 roll = 30 m, Conductor diameter: 1.6 - 4.8 mm
1 roll = 25 m, Conductor diameter: 2.1 - 6.4 mm
1 roll = 20 m, Conductor diameter: 3.2 - 9.5 mm
1 roll = 20 m, Conductor diameter: 4.2 - 12.7 mm
1 roll = 20 m, Conductor diameter: 6.4 - 19.1 mm
1 roll = 15 m, Conductor diameter: 8.5 - 25.4 mm
1 roll = 15 m, Conductor diameter: 12.7 - 38.1 mm
1 roll = 15 m, Conductor diameter: 16.9 - 50.8 mm

Shrink sleeve, large roll

1 roll = 120 m, Conductor diameter: 0.8 - 2.4 mm
1 roll = 120 m, Conductor diameter: 1.0 - 3.2 mm
1 roll = 120 m, Conductor diameter: 1.6 - 4.8 mm
1 roll = 100 m, Conductor diameter: 2.1 - 6.4 mm
1 roll = 80 m, Conductor diameter: 3.2 - 9.5 mm
1 roll = 80 m, Conductor diameter: 4.2 - 12.7 mm
1 roll = 80 m, Conductor diameter: 6.4 - 19.1 mm
1 roll = 60 m, Conductor diameter: 8.5 - 25.4 mm

Technical data

THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK X1.2 • THERMOMARK ROLL X1
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R	0800289	1
WMS 3,2 (EX5)R	0800290	1
WMS 4,8 (EX9)R	0800291	1
WMS 6,4 (EX10)R	0800292	1
WMS 9,5 (EX16)R	0800293	1
WMS 12,7 (EX20)R	0800294	1
WMS 19,1 (EX30)R	0800295	1
WMS 25,4 (EX40)R	0800296	1
WMS 38,1 (EX60)R	0800298	1
WMS 50,8 (EX80)R	0800299	1
WMS 2,4 (EX4)RL	0800319	1
WMS 3,2 (EX5)RL	0800320	1
WMS 4,8 (EX9)RL	0800321	1
WMS 6,4 (EX10)RL	0800322	1
WMS 9,5 (EX16)RL	0800324	1
WMS 12,7 (EX20)RL	0800325	1
WMS 19,1 (EX30)RL	0800326	1
WMS 25,4 (EX40)RL	0800327	1



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Conductor diameter from 0.8 to 50.8 mm,
yellow

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Conductor diameter from 0.8 to 50.8 mm,
black

Technical data
THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK X1.2 • THERMOMARK ROLL X1
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Technical data
THERMOMARK W1 • THERMOMARK W2 • THERMOMARK ROLL • THERMOMARK X1.2 • THERMOMARK ROLL X1
Polyolefine
-55 ... 135
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R YE	0800300	1
WMS 3,2 (EX5)R YE	0800301	1
WMS 4,8 (EX9)R YE	0800302	1
WMS 6,4 (EX10)R YE	0800303	1
WMS 9,5 (EX16)R YE	0800304	1
WMS 12,7 (EX20)R YE	0800305	1
WMS 19,1 (EX30)R YE	0800306	1
WMS 25,4 (EX40)R YE	0800308	1
WMS 38,1 (EX60)R YE	0800309	1
WMS 50,8 (EX80)R YE	0800311	1
WMS 2,4 (EX4)RL YE	0800328	1
WMS 3,2 (EX5)RL YE	0800329	1
WMS 4,8 (EX9)RL YE	0800330	1
WMS 6,4 (EX10)RL YE	0800331	1
WMS 9,5 (EX16)RL YE	0800332	1
WMS 12,7 (EX20)RL YE	0800333	1
WMS 19,1 (EX30)RL YE	0800334	1
WMS 25,4 (EX40)RL YE	0800335	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R BK	0800415	1
WMS 3,2 (EX5)R BK	0800416	1
WMS 4,8 (EX9)R BK	0800418	1
WMS 6,4 (EX10)R BK	0800419	1
WMS 9,5 (EX16)R BK	0800421	1
WMS 12,7 (EX20)R BK	0800422	1
WMS 19,1 (EX30)R BK	0800423	1
WMS 25,4 (EX40)R BK	0800424	1
WMS 38,1 (EX60)R BK	0800425	1
WMS 50,8 (EX80)R BK	0800426	1
WMS 2,4 (EX4)RL BK	0800427	1
WMS 3,2 (EX5)RL BK	0800428	1
WMS 4,8 (EX9)RL BK	0800429	1
WMS 6,4 (EX10)RL BK	0800430	1
WMS 9,5 (EX16)RL BK	0800431	1
WMS 12,7 (EX20)RL BK	0800432	1
WMS 19,1 (EX30)RL BK	0800434	1
WMS 25,4 (EX40)RL BK	0800435	1

Conductor and cable marking

Insertable conductor marking for marking collars



- EMT ... insert labels for marking various marking collars
- Can be printed onto, with THERMOMARK... for material off the roll
- Thanks to their special contour, EMT ... insert labels remain securely inside the collar once inserted
- The PABL ... sheets are available to allow marking with a laser printer

Notes:
PATG/PATO ... system, see page 214.
KMK ..., see page 202.
LM ..., see page 203.

Can be marked using:



Thermal transfer for rolls

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Insert labels for marker carriers

General data

Can be marked using

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips , lettering field size: 10 x 4 mm, 7500 labels per roll				
Lettering field size: 15 x 4 mm, 7500 labels per roll	white	EMT (10X4)R	0816235	1
	white	EMT (15X4)R	0817329	1
	red	EMT (15X4)R RD	0816249	1
	yellow	EMT (15X4)R YE	0817358	1
	blue	EMT (15X4)R BU	0817332	1
Lettering field size: 23 x 4 mm, 5000 labels per roll	white	EMT (23X4)R	0817361	1
	yellow	EMT (23X4)R YE	0817374	1
Lettering field size: 24 x 4 mm, 5000 labels p. roll	white	EMT (24X4)R	0816265	1
Lettering field size: 25 x 6 mm, 5000 labels per roll	white	EMT (25X6)R	0817264	1
Lettering field size: 29 x 8 mm, 5400 labels per roll	white	EMT (29X8)R	0817277	1
	yellow	EMT (29X8)R YE	0817280	1
Lettering field size: 40 x 17 mm, 2300 labels per roll	white	EMT (40X17)R	0817293	1
Lettering field size: 60 x 15 mm, 2500 labels per roll	white	EMT (60X15)R	0801846	1
Insert strips , for PATG/PATO, perforated, DIN A4 sheet, lettering field size: 15 x 4 mm, 1 sheet = 360 labels, for office laser printers				
	white	PABL 15X4	0808260	10



Insertable conductor marking with threading and insertion aid for marking collars

Can be marked using:

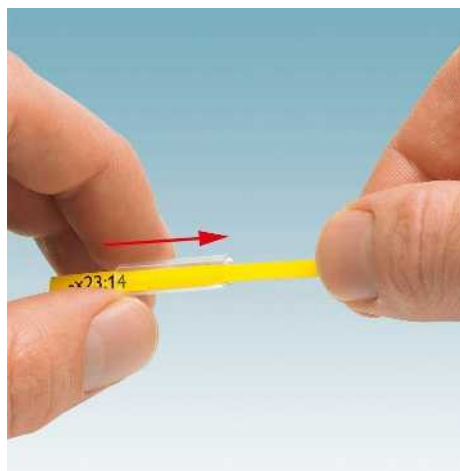


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For PATG ... and PATO... marker carriers



- The WMTW... insert labels are used to label marking collars from the PATG/PATO ... system; see page 214
- Easy assembly, thanks to a threading and insertion aid, which can be easily separated by means of a perforation after inserting the marker
- Thanks to their special shape, the WMTW ... insert labels remain securely inside the marking collar
- Can be printed onto, with THERMOMARK... for material off the roll
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

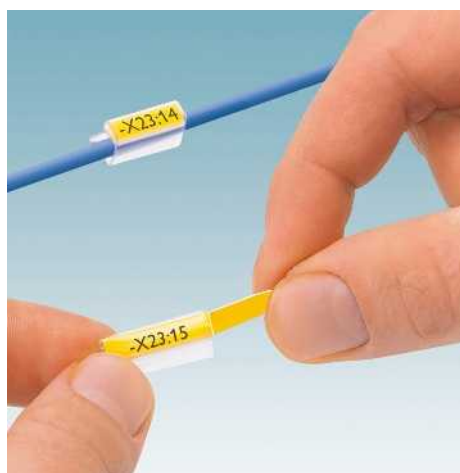
Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyolefine
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insertable conductor marking				
Lettering field size: 10 x 4 mm, 3000 labels per roll	white	WMTW (10X4)R	0831000	1
Lettering field size: 10 x 4 mm, 3000 labels per roll	yellow	WMTW (10X4)R YE	0831001	1
Lettering field size: 15 x 4 mm, 3000 labels per roll	white	WMTW (15X4)R	0831002	1
Lettering field size: 15 x 4 mm, 3000 labels per roll	yellow	WMTW (15X4)R YE	0831003	1
Lettering field size: 23 x 4 mm, 3000 labels per roll	white	WMTW (23X4)R	0831004	1
Lettering field size: 23 x 4 mm, 3000 labels per roll	yellow	WMTW (23X4)R YE	0831005	1



Conductor and cable marking

Slide-on conductor marking

Can be marked using:



- The conductor to be marked is pushed through two punched holes in the marker and positioned
- The special hole geometry ensures a strong axial hold
- Made from high-quality polyester foil
- Available for different conductor diameters
- Custom marking and easy handling
- High-quality marking image created by thermal transfer printing
- Special packaging protects the conductor markers against external influences, dust, and dirt
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements



Thermal transfer for rolls

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Marker for conductor diameters of 1.0 to 8.4 mm

General data

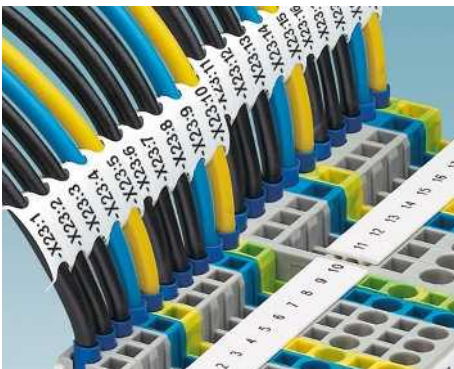
Can be marked using	
Number of individual labels	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
4000
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

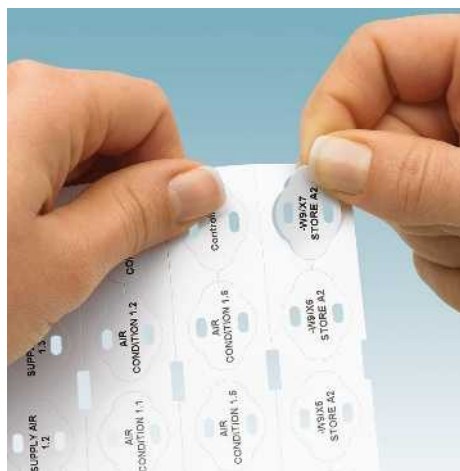
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Slide-on conductor markers, 1 roll = 4000 conductor markers				
Lettering field size: 15 x 4 mm, conductor diameter: 1.0 - 2.4 mm	white	WMT 2,4 (15X4)R	0816281	1
Lettering field size: 15 x 5 mm, conductor diameter: 2.0 - 3.5 mm	white	WMT 3,5 (15X5)R	0817222	1
Lettering field size: 15 x 6 mm, conductor diameter: 3.0 - 4.2 mm	white	WMT 4,2 (15X6)R	0817235	1
Lettering field size: 15 x 8 mm, conductor diameter: 4.0 - 5.5 mm	white	WMT 5,5 (15X8)R	0817248	1
Lettering field size: 17 x 10 mm, conductor diameter: 5.0 - 8.4 mm	white	WMT 8,4 (17X10)R	0817251	1



Conductor marking for cable binder assembly

Can be marked using:



Thermal transfer for rolls

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Marker for conductor diameters of 6 mm and above

- Conductor marking for identifying and bundling conductors in indoor areas
- Made from high-quality polyester foil
- The marker has two fastening eyes so that it can be attached to the conductor by means of PKB ... cable binders
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements

Notes:

For corresponding cable binders, see from page 588.

General data

Can be marked using

Material
Temperature range [°C]
Wipe resistance
Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable markers for assembly with cable binders Lettering field size: 24 x 8 mm (max. cable binder width: 5 mm), 4000 cable markers per roll	white	WMTB (24X8)R	0816278	1
Lettering field size: 35 x 15 mm (max. cable binder width: 5 mm), 1700 cable markers per roll	white	WMTB (35X15)R	0817316	1

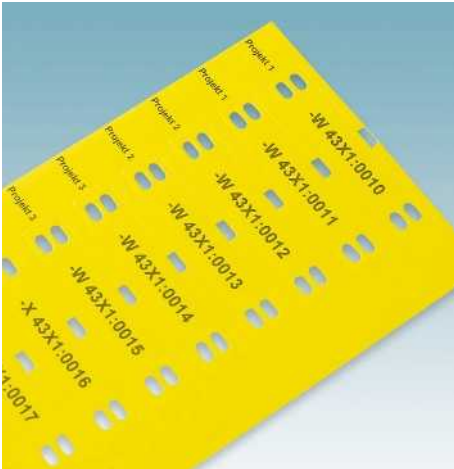


Marking and labeling - MARKING system

Conductor and cable marking

Conductor marking for cable binder assembly

Can be marked using:



Thermal transfer for rolls

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Marker for conductor diameters of 6 mm and above

Halogen-free conductor and cable marking for marking and bundling conductors and cables indoors and outdoors.

- Made from high-quality thermoplastic polyether urethane
- Highly flexible material, adapts to the bending of the conductors or cables
- Additional marking, such as project information, can be printed on the carrier material. This makes it easier to assign the markers during mounting
- Very high tensile strength
- Flame-retardant material
- The marker has two fastening lugs so that it can be attached to the conductor by means of cable binders
- Marking service: Phoenix Contact can custom-mark all conductor markers in accordance with your requirements

Notes:
For corresponding cable binders, see from page 588.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2	
PUR	
V0	
-25 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Halogen-free	

Description	Color
Cable markers for assembly with cable binders , maximum cable binder width: 5 mm	
1000 markers per roll, lettering field size: 40 x 12 mm	white
	yellow
	red
	blue
	blue
1000 markers per roll, lettering field size: 55 x 15 mm	white
	yellow
	red
	blue
	blue
500 markers per roll, lettering field size: 55 x 25 mm	white
	yellow
	red
	blue
	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMTB HF (40X12)R	0830407	1
WMTB HF (40X12)R YE	0830408	1
WMTB HF (40X12)R RD	0803314	1
WMTB HF (40X12)R BU	0802991	1
WMTB HF (55X15)R	0830409	1
WMTB HF (55X15)R YE	0830410	1
WMTB HF (55X15)R RD	0803315	1
WMTB HF (55X15)R BU	0802992	1
WMTB HF (55X25)R	0830411	1
WMTB HF (55X25)R YE	0830412	1
WMTB HF (55X25)R RD	0803316	1
WMTB HF (55X25)R BU	0802993	1

Ink ribbon , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	black
Ink ribbon , specifically for cable markers for assembly with cable binders, WMTB HF..., length: 300 m, width: 110 mm	white

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110-WMTB HF	5148007	1
TM-RIBBON 110-WMTB HF WH	0802990	1

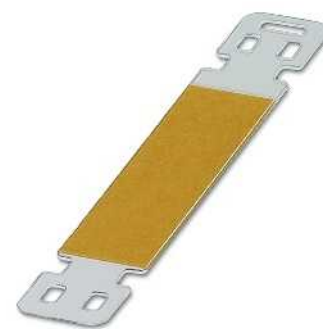


Conductor marker carriers for assembly with cable binders, for labels with laminated protective foil



- The WM-CARRIER /B... conductor marker carriers consist of a marking field for labels and a transparent, self-adhesive laminated protective foil
- The protective foil provides permanent protection against contamination and abrasion
- High-quality marking image created by thermal transfer printing
- Quick and easy handling
- The marker has two fastening lugs so that it can be attached to the conductor by means of cable binders
- Resistant to solvents
- Marking service: Phoenix Contact can custom-mark all cable marker labels in accordance with your requirements

Notes:
For corresponding cable binders, see from page 588.



Marker for conductor diameters from 6 mm

General data	
Material	PVC/polyester
Temperature range	-10 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Halogen-free

Description	Color
Conductor marker carriers , maximum cable binder width: 5 mm	
Lettering field size: 48 x 10 mm	transparent
Lettering field size: 55 x 15 mm	transparent
Lettering field size: 85 x 15 mm	transparent

Labels	
2500 labels per roll	white
2500 labels per roll	yellow
2500 labels per roll	white
2500 labels per roll	yellow
2500 labels per roll	white
2500 labels per roll	yellow

Technical data

Ordering data

Type	Order No.	Pcs. / Pkt.
WM-CARRIER/B (48X10)LPR	0830423	100
WM-CARRIER/B (55X15)LPR	0830424	100
WM-CARRIER/B (85X15)LPR	0830425	100

Accessories

EML (40X6)R	0830481	1
EML (40X6)R YE	0830482	1
EML (50X10)R	0830483	1
EML (50X10)R YE	0830484	1
EML (75X10)R	0830485	1
EML (75X10)R YE	0830486	1



Conductor and cable marking

Plastic cable marker for insert labels, for assembly with cable binders



- The KMK... versions have eyelets and are attached with cable binders
- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements

Notes:
For corresponding cable binders, see from page 588.



Lettering field size 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Technical data		
-----------------------	--	--

Description	Color
Plastic cable marker for insert labels, with eyelets for fastening with cable binders Lettering field size: 25 x 6 mm	transparent
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 29 x 8 mm	transparent
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 40 x 17 mm	transparent
Plastic cable markers for insert labels, with eyelets for fastening with cable binders Lettering field size: 60 x 15 mm	transparent

Ordering data		
----------------------	--	--

Type	Order No.	Pcs. / Pkt.
KMK 1	0830745	100

Insert strips for laser printers, DIN A4, perforated
Lettering field size: 25 x 6 mm, 1 sheet = 252 labels
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels
Lettering field size: 60 x 15 mm, 1 sheet = 51 labels

Accessories		
--------------------	--	--

ESL (25X6)	0801849	10
EMT (25X6)R	0817264	1
US-EMP (25X6)-1	0802754	10

Insert labels for thermal transfer printer, halogen-free
Lettering field size: 25 x 6 mm, 5000 labels per roll
Lettering field size: 29 x 8 mm, 5400 labels per roll
Lettering field size: 40 x 17 mm, 2300 labels per roll
Lettering field size: 60 x 15 mm, 2500 labels per roll
UniSheet, 0.5 mm thick, inflammability class V0 according to UL 94
84-section, lettering field size: 25 x 6 mm
48-section, lettering field size: 29 x 8 mm
16-section, lettering field size: 40 x 17 mm
9-section, lettering field size: 60 x 15 mm





Lettering field size 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size 40 x 17 mm,
for cable diameter > 9 mm



Lettering field size 60 x 15 mm,
for cable diameter > 9 mm

Technical data

Polyethylene
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK 2	1005266	100

Accessories

ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10

Technical data

Polyethylene
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK 4	1005305	50

Accessories

ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10

Technical data

Polyethylene
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK 5	0830746	50

Accessories

ESL (60X15)	0801851	10
EMT (60X15)R	0801846	1
US-EMP (60X15)	0828781	10

Conductor and cable marking

Plastic cable marker for insert labels, for assembly with cable binders



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements

Notes:
For corresponding cable binders, see from page 588.



For insert labels with lettering field size 29 x 8 mm, for cable diameters > 10 mm

General data	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Technical data		
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Description	Color
Plastic cable markers for insert labels , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm	transparent

Plastic cable markers for insert labels , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm	transparent
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Cable and conductor markers for insert labels , can be marked with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	transparent
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Cable and conductor markers for labels , can be marked with EML or EMLC, diameter of 1 - 20 mm, lettering field size: 20 x 8 mm	white
	white

Ordering data		
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Type	Order No.	Pcs. / Pkt.
KMK	1005208	100

Insert strips for laser printers , DIN A4, perforated
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels
Lettering field size: 24 x 4 mm, 1 sheet = 488 labels

Insert labels for thermal transfer printers
Lettering field size: 29 x 8 mm, 5400 labels per roll
Lettering field size: 40 x 17 mm, 2300 labels per roll
Lettering field size: 24 x 4 mm, 5000 labels p. roll

UniSheet , 0.5 mm thick
48-section, lettering field size: 29 x 8 mm
16-section, lettering field size: 40 x 17 mm
Textile label , lettering field size: 20 x 8 mm
2500 labels per roll
2500 labels per roll

Accessories		
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ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10





Insert label, with lettering field size 40 x 17 mm, for cable diameters > 16 mm



For insert labels with lettering field size 24 x 4 mm, for cable diameters > 1 mm



For adhesive labels, with lettering field size 20 x 8 mm, for cable diameters > 1 mm

Technical data		
Polyethylene		
-40 ... 80		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KMK 3	1005211	50
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Accessories

ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

LM	1004377	100
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Accessories

ESL 24X4	0808231	10
EMT (24X4)R	0816265	1

Technical data		
PA		
-40 ... 100		
Free from silicone and halogen		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KME	0807083	50
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Accessories

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1

Conductor and cable marking

Plastic cable markers for insert labels, for assembly with cable binders



- KMK HP ... plastic cable markers for marking and bundling conductors and cables indoors
- Inflammability class V0 acc. to UL 94
- The KMK HP... cable markers are particularly suitable for use in the railway industry, traffic technology, and building technology thanks to their outstanding material properties
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:

For matching cable binders, see page 588 or the product area on our website at phoenixcontact.net/products.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data

Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 125 [°C]
Components	Halogen-free

Description	Color
Cable marker carrier for cable binder assembly	transparent

UniCard, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser

Lettering field size: 25 x 6 mm, 15-section
 Lettering field size: 29 x 8 mm, 15-section
 Lettering field size: 60 x 15 mm, 3-section
 Lettering field size: 40 x 17 mm, 3-section

UniSheet, 0.5 mm thick, inflammability class V0 according to UL 94

84-section, lettering field size: 25 x 6 mm
 48-section, lettering field size: 29 x 8 mm
 9-section, lettering field size: 60 x 15 mm
 16-section, lettering field size: 40 x 17 mm

Insert labels for thermal transfer printer, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll

Lettering field size: 29 x 8 mm, 5400 labels per roll

Lettering field size: 60 x 15 mm, 2500 labels per roll

Lettering field size: 40 x 17 mm, 2300 labels per roll

Cable binder, inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]

35 / 130
 50 / 220
 79 / 220

Magazine, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

Technical data

PC
 V0
 -40 ... 125
 Halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK HP (25X6)	0830720	100

Accessories

UCT-EMP (25X6)	1014117	10
US-EMP (25X6)-1	0802754	10
EMT (25X6)R	0817264	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1



Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PC V0 -40 ... 125 Halogen-free		
Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (29X8)	0830721	100
Accessories		
UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC V0 -40 ... 125 Halogen-free		
Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (60X15)	0830722	50
Accessories		
UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC V0 -40 ... 125 Halogen-free		
Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (40X17)	0830723	50
Accessories		
UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Conductor and cable marking

Plastic cable markers for insert labels, for assembly with cable binders



- KMK UV ... plastic cable markers for marking and bundling conductors and cables outdoors
- The KMK UV... cable markers are ultra-transparent, impact resistant, and have excellent weathering resistance. At the same time, they also possess outstanding chemical resistance
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:
For matching cable binders, see page 588 or the product area on our website at phoenixcontact.net/products.
1) WT-UV HF...BK cable binders are weatherproof and UV resistant according to ISO 4892 (after QUV-B 600 hours) for up to 10 years.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	PA
Inflammability class according to UL 94	HB
Temperature range	-40 ... 100 [°C]
Components	Halogen-free

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Description	Color
Cable marker carrier for cable binder assembly	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (25X6)	1014106	100

UniCard, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser
 Lettering field size: 25 x 6 mm, 15-section
 Lettering field size: 29 x 8 mm, 15-section
 Lettering field size: 60 x 15 mm, 3-section
 Lettering field size: 40 x 17 mm, 3-section

Accessories		
UCT-EMP (25X6)	1014117	10

UniSheet, 0.5 mm thick, inflammability class V0 according to UL 94
 84-section, lettering field size: 25 x 6 mm
 48-section, lettering field size: 29 x 8 mm
 9-section, lettering field size: 60 x 15 mm
 16-section, lettering field size: 40 x 17 mm

US-EMP (25X6)-1	0802754	10
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Insert labels for thermal transfer printer, halogen-free
 Lettering field size: 25 x 6 mm, 5000 labels per roll
 Lettering field size: 29 x 8 mm, 5400 labels per roll
 Lettering field size: 60 x 15 mm, 2500 labels per roll
 Lettering field size: 40 x 17 mm, 2300 labels per roll

EMT (25X6)R	0817264	1
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Cable binder, halogen-free, inflammability class according to UL 94: V2, maximum bundle Ø [mm] / min. tensile strength [N]!

35 / 130

50 / 220

79 / 220

Magazine, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1



Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (29X8)	1014107	100

Accessories

UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (60X15)	1014108	50

Accessories

UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (40X17)	1014109	50

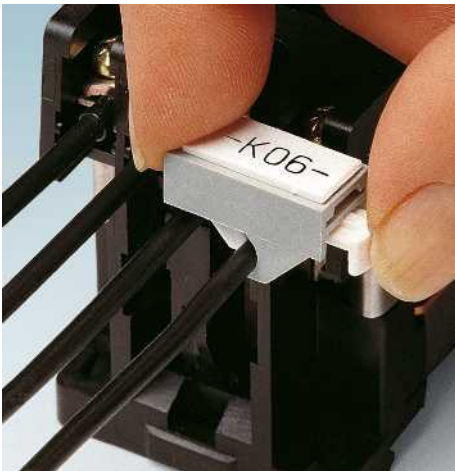
Accessories

UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Marking and labeling - MARKING system

Conductor and cable marking

GKM ... conductor marker



- The GKM ... conductor markers support large-surface conductor marking
- Flexible application, thanks to spring-loaded conductor attachment
- Particularly suitable for temporary marking
- Quick and easy to use



Conductor diameter from 0 to 5.2 mm

General data	
Material	
Temperature range	[°C]
Components	

Description	Color
Conductor markers , lettering field size: 20 x 8 mm for conductor diameters of 0 - 2.5 mm	gray
For conductor diameters of 4.8 - 11 mm	gray

Marker tags , 5-section, unprinted, marking with X-PEN, B-STIFT, plotter or BKMT 20 x 8 label	
Lettering field size: 20 x 8 mm	white
Lettering field size: 20 x 8 mm	yellow
UniCard , for marking devices from the following manufacturers: ABB, Conta-Clip, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens	
Lettering field size: 20 x 9 mm	white
Lettering field size: 20 x 9 mm	yellow
Lettering field size: 20 x 9 mm	white
Lettering field size: 20 x 9 mm	yellow

Technical data	
Material	PA/ABS
Temperature range	-40 ... 80
Components	Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
GKM 1 GY	1750498	100

Accessories		
Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) YE	0801472	10



Conductor diameter from 4.8 to 11 mm

Technical data

PA/ABS
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
GKM 2 GY	1750485	100

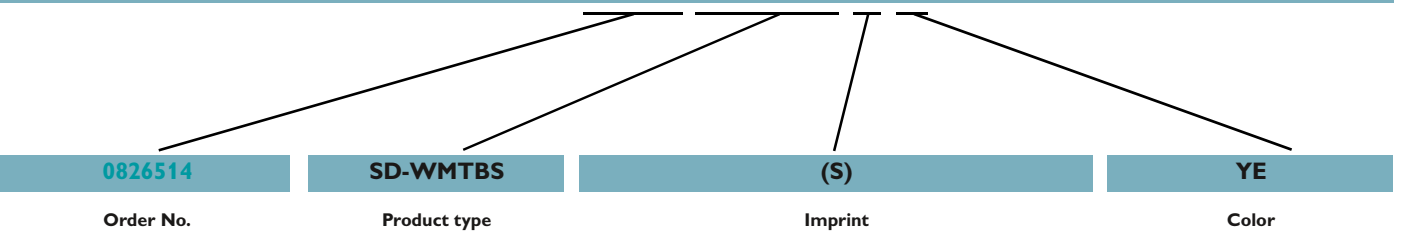
Accessories

SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UCT-EM (20X9)	0801471	10
UCT-EM (20X9) YE	0801472	10

Type key for SD-WMTBS ...



Example **0826514 SD-WMTBS (S) YE**



0826637 0826514 0826611: letter 0826624: symbol 0826527	SD-WMTBS (NEUTRAL) CC SD-WMTBS (S) YE SD-WMTBS (CH) YE SD-WMTBS (SY) YE SD-WMTBS (NU) CC	(NEUTRAL) = unprinted (S) = printed with numbers 0 - 9 (CH) = letters A - Z (SY) = symbols + - / . GND (NU) = printed with numbers 0 - 9	YE = yellow YE = yellow YE = yellow YE = yellow CC = international color code
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International color code



Print	Marker color	Font color
0	black	white
1	brown	white
2	red	white
3	orange	black
4	yellow	black
5	green	white
6	blue	white
7	violet	white
8	gray	black
9	white	black

Cable marking for carrier assembly



- Cable markers for marking cables and conductors with larger cross sections
- The printed individual markers are pushed onto the corresponding holders

Notes:
1) For an ordering example, see page 210.
The label holder is attached using cable binders; for corresponding cable binders up to 4.8 mm wide, see page 588 onwards.



Individual marker with carrier for cable diameter > 16 mm

General data	
Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-30 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and cadmium

Technical data	
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Ordering data		
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Description	Color
Cable marker¹⁾	
Unprinted	international color code
Printed: with numbers 0-9	yellow
Printed: with upper case letters A-Z	yellow
Printed: with symbols + - / . GND	yellow
International color code, printed: With numbers between 0-9	international color code
Label holder, for cable binders up to 4.8 mm wide	
For max 7 characters	black
For max 13 characters	black

Type	Order No.	Pcs. / Pkt.
SD-WMTBS (NEUTRAL) CC	0826637	100
SD-WMTBS (S) YE	0826514	100
SD-WMTBS (CH) YE	0826611	100
SD-WMTBS (SY) YE	0826624	100
SD-WMTBS (NU) CC	0826527	100
SD-WMTB (70X10)	0826530	100
SD-WMTB (100X10)	0826543	100

Marking and labeling - MARKING system

Conductor and cable marking

Stainless steel cable marking for carrier assembly



- Cable markers for marking cables and conductors with larger cross sections
- The individual high-grade steel markers are pushed onto the corresponding holders
- They are secured using high-grade steel cable binders
- Easy assembly with UNIFOX-CT M7,9

Notes:
1) For ordering example, see page 210.
For further stainless steel cable binders, see page 594.



Stainless steel marker with carrier for assembly with cable binders

General data	
Material	
Description	Color
Cable marker¹⁾	
Unprinted	silver
Printed: with numbers 0-9	silver
Printed: with upper case letters A-Z	silver
Printed: with symbols + - / . GND	silver
Label holder	
For max 6 characters	silver
For max 9 characters	silver
For max 13 characters	silver
For max 17 characters	silver
For max. 20 characters	silver

Cable binder, made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver

Technical data		
Material		
Stainless steel		

Ordering data		
Type	Order No.	Pcs. / Pkt.
SD-WMTBS (NEUTRAL) VA	0826666	50
SD-WMTBS (NU) VA	0826556	50
SD-WMTBS (CH) VA	0826640	50
SD-WMTBS (SY) VA	0826653	50
SD-WMTB (30X10) VA	0826569	50
SD-WMTB (47X10) VA	0826572	50
SD-WMTB (70X10) VA	0826585	50
SD-WMTB (92X10) VA	0826598	50
SD-WMTB (111X10) VA	0826608	50

Accessories		
Type	Order No.	Pcs. / Pkt.
WT-STEEL S 4,6X150	3240807	100
WT-STEEL S 4,6X201	3240808	100



High-grade steel cable marking for embossing or laser engraving



- Cable markers for marking cables and conductors with larger cross sections
- The individual high-grade steel markers are pushed onto the corresponding holders
- They are secured using high-grade steel cable binders
- Easy assembly with UNIFOX-CT M7,9

Notes:
For further stainless steel cable binders, see page 594.

PRINTED
FOR YOU



Stainless steel marker for assembly with cable binders

General data
Material

Technical data		
Stainless steel 304		

Description	Color
Steel cable markers , rustproof, non-magnetic, label size: 89 x 19 mm, lettering field size: 65 x 19 mm	silver
Steel cable markers , rustproof, non-magnetic, label size: 44 x 9.6 mm, lettering field size: 23 x 9 mm	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMV	0806644	100
KMV 44X9,6	0812007	100

Cable binder, made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver

Accessories		
WT-STEEL S 4,6X150	3240807	100



Marking and labeling - MARKING system

Conductor and cable marking

Marking collars for insert labels



Closed marker carrier, for sliding on

- These conductor marking systems consist of marker carriers and insert labels
- The PATG ... collar is a captive marker carrier
- Can be used to mark conductors with a diameter of 0.6 ... 50 mm
- The corresponding UC-WMT ..., UCT-WMT ..., US-WMT ..., WMTW ..., and EMT ... insert labels are used for marking

General data

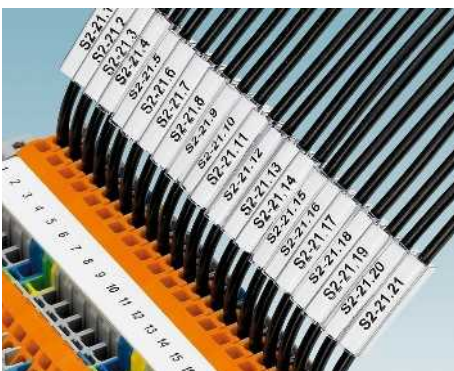
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-50 ... 80
Components	Silicone-free

Technical data

Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-50 ... 80
Components	Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Conductor marker carrier, closed, 10 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/10	1013795	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/10	1013805	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/10	1013818	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/10	1013821	500
Wire marker carrier, closed, 12 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/12	0827076	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/12	0827077	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/12	0827078	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/12	0827079	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/12	0827080	500
		PATG 5/12	0803312	200
Conductor marker carrier, closed, 15 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/15	1013740	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/15	1013025	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/15	1013038	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/15	1013041	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/15	1013054	500
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/15	1013067	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/15	1013070	200
Conductor cross section: 22.0-30.0 mm	transparent	PATG 7/15	1013083	50
Conductor cross section: 30.0-35.0 mm	transparent	PATG 8/15	1013096	50
Conductor diameter: 35.0 - 45.0 mm	transparent	PATG 9/15	1013106	50
Wire marker carrier, closed, 18 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/18	0820507	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/18	0820510	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/18	0820523	1000
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/18	0820536	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/18	0820549	500
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/18	0828059	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/18	0828062	200
Conductor marker carrier, closed, 23 mm wide				
Conductor diameter: 0.6-1.2 mm	transparent	PATG 0/23	0828046	1000
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/23	1013847	1000
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/23	1013850	500
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/23	1013863	500
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/23	0808011	200
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/23	0808024	200
Conductor cross section: 14.0-22.0 mm	transparent	PATG 6/23	0808037	100
Conductor cross section: 22.0-30.0 mm	transparent	PATG 7/23	0808040	50
Conductor cross section: 30.0-35.0 mm	transparent	PATG 8/23	0808053	50
Conductor marker carrier, closed, 30 mm wide				
Conductor diameter: 1.5-2.5 mm	transparent	PATG 1/30	0822440	500
Conductor cross section: 2.0-4.0 mm	transparent	PATG 2/30	0822453	500
Conductor cross section: 4.0-7.0 mm	transparent	PATG 3/30	0822466	200
Conductor cross section: 6.0-10.0 mm	transparent	PATG 4/30	0822479	200
Conductor cross section: 10.0-14.0 mm	transparent	PATG 5/30	0822482	200



Marking collars for insert labels

- Can be marked using UC-WMT ..., US-WMT ..., UCT-WMT..., and WMTW plastic labels or EMT ... insert strips

PATO ...

- These marking collars are used for subsequent marking of systems that have already been wired

PAB-KTL ...

- Marking collars for identifying and bundling conductors



Open marker carrier, for clipping on



Marker carrier for assembly with cable binders

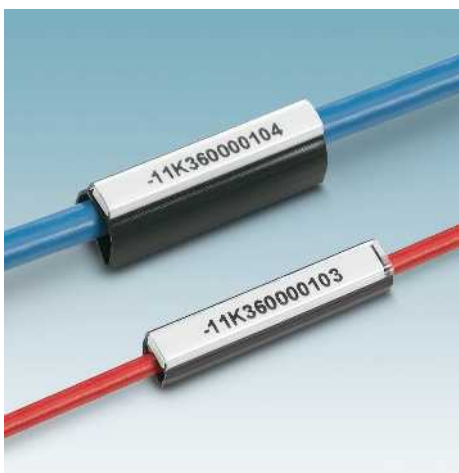
General data		Technical data			Technical data		
Material		PVC		PVC			
Inflammability class according to UL 94		V0		V0			
Temperature range	[°C]	-50 ... 80		-50 ... 80			
Components		Silicone-free		Silicone-free			
General data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Conductor marker carrier, open, 10 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/10	1013876	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/10	1013889	1000			
Wire marker carrier, open, 12 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/12	0827081	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/12	0827082	1000			
Conductor marker carrier, open, 15 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/15	1013119	1000			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/15	1013122	1000			
Conductor diameter: 6.7 - 8.0 mm	transparent	PATO 3/15	1013135	500			
Conductor diameter: 6.7 - 10.0 mm	transparent	PATO 4/15	1013148	500			
Wire marker carrier, open, 18 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/18	0823740	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/18	0823753	500			
Conductor marker carrier, open, 23 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/23	1013892	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/23	1013902	500			
Conductor marker carrier, open, 30 mm wide							
Conductor cross section: 2.0-3.5 mm	transparent	PATO 1/30	0822495	500			
Conductor diameter: 2.8 - 4.4 mm	transparent	PATO 2/30	0822505	500			
Cable marker carrier, lettering field along the length of cable, marking with UC-WMT and PABA..., lettering field: 30 x 4 mm, is secured with PKB cable tie							
Lettering field size: 23 x 4 mm, marking with UC-WMT and PABA.../23	transparent				PAB-KTL	1013261	200
	transparent				PAB-KTL 23	1013957	200
Plastic cable marker for PKE insert label, can be marked with PKE insert label, marking field: 9 mm x 20 mm, with eyelets for fastening to PKB cable ties							
	transparent				PKT 9X20	0803977	240

Conductor and cable marking

Halogen-free marking collars for insert labels



- These conductor marking systems consist of marker carriers and insert labels
- The PATG HF... sleeve is a captive marker carrier
- Conductors with a diameter of 1.3 mm ... 10 mm can be marked with it.
- The corresponding UC-WMT... and UCT-WMT... insert labels are used for marking
- These conductor marking systems are particularly suitable for use in the railway and automotive industry, traffic technology, and building technology, thanks to their outstanding material properties
- Comprehensive approvals, such as the NF F 16-101/16-102, DIN EN 45545-2, and DIN 5510-2 ensure international use



Notes:

High-quality fluid printing with the BLUEMARK is required when using the UC-WMT... insert labels.

new



Closed marker carrier, for sliding on

General data

Material	TPU
Inflammability class according to UL 94	V0
Temperature range	-40 ... 100 [°C]
Components	free from silicone, halogen, and cadmium

Technical data

Material	TPU
Inflammability class according to UL 94	V0
Temperature range	-40 ... 100 [°C]
Components	free from silicone, halogen, and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Conductor marker carrier, closed, 10 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/10	1014044	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/10	1014050	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/10	1014056	500
Wire marker carrier, closed, 12 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/12	1014045	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/12	1014051	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/12	1014057	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/12	1014063	500
Conductor marker carrier, closed, 15 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/15	1014046	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/15	1014052	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/15	1014058	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/15	1014064	500
Wire marker carrier, closed, 18 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/18	1014047	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/18	1014053	1000
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/18	1014059	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/18	1014065	500
Conductor marker carrier, closed, 23 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/23	1014048	1000
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/23	1014054	500
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/23	1014060	500
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/23	1014066	200
Conductor marker carrier, closed, 30 mm wide				
Cable diameter: 1.3 - 2.8 mm	transparent/black	PATG HF 1/30	1014049	500
Cable diameter: 2.0 - 4.0 mm	transparent/black	PATG HF 2/30	1014055	500
Cable diameter: 4.0 - 7.0 mm	transparent/black	PATG HF 3/30	1014061	200
Cable diameter: 5.0 - 10.0 mm	transparent/black	PATG HF 4/30	1014067	200

Marking and labeling - MARKING system

Conductor and cable marking

Overview of conductor and cable marking

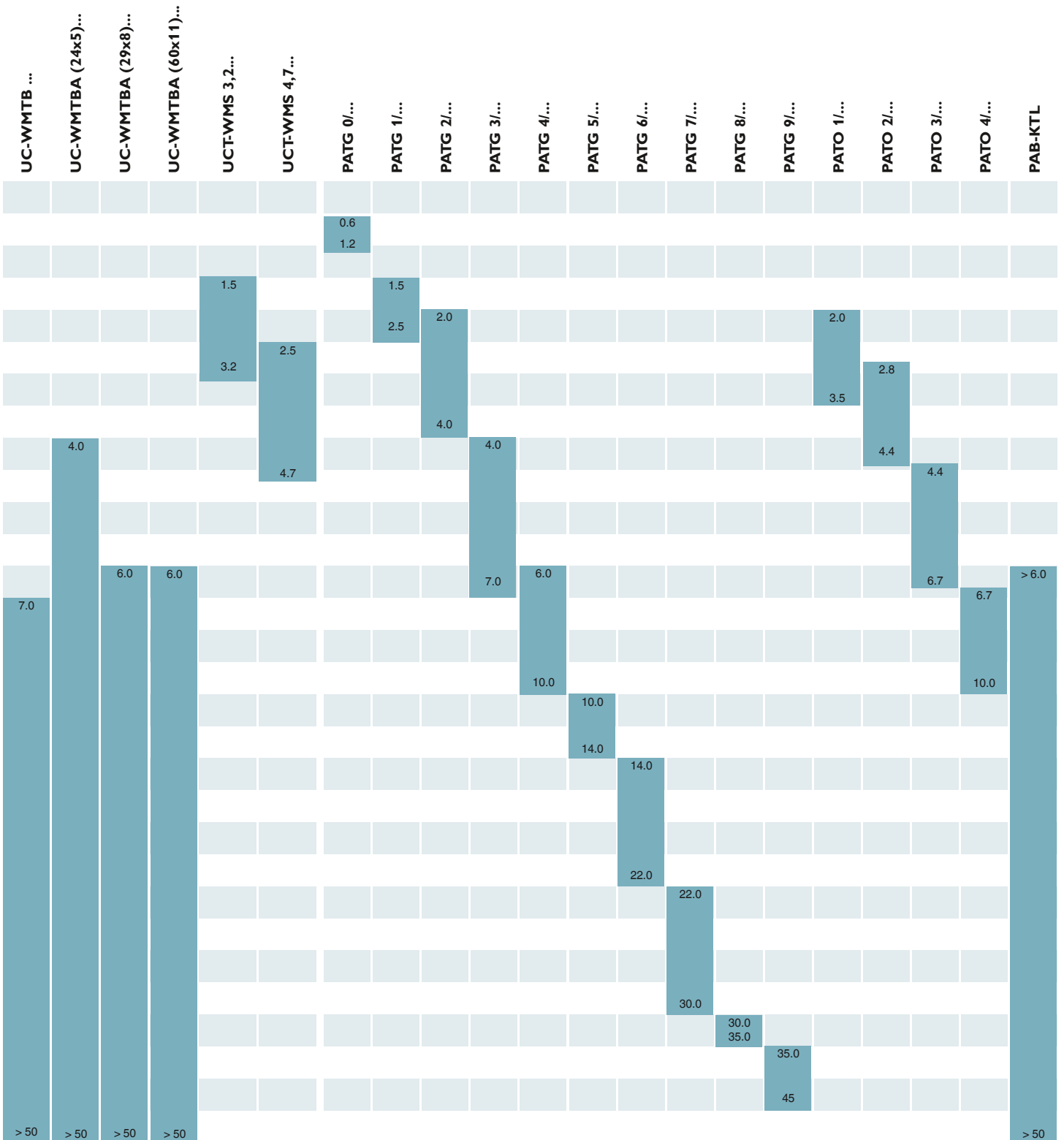
Markers for marking with TOPMARK LASER, BLUEMARK..., THERMOMARK... or plotters



Conductor diameter [mm]	Stainless steel and aluminum labels				Aluminum labels				Conductor clips								Ferrules (dimensions in mm ²)									
	Page 160				Page 160				Page 162								Page 169									
	LS-WMTB-... (29X8)	LS-WMTB-... (40X15)	LS-WMTB-... (60X15)	LS-WMTB-... (100x15)	LS-WMTB-... (D25)	LS-WMTB-... (D30)	WMTB-AL (29X8)	WMTB-AL (40X15)	WMTB-AL (60X15)	WMTB-AL (D30)	UC-WMC 1,9...	UC-WMC 3,1...	UC-WMC 4,4...	UC-WMC 5,6...	UC-WMC 7,5...	UC-WMCO 1,6...	UC-WMCO 2,1...	UC-WMCO 2,9...	UC-WMCO 3,6...	UC-WMCO 4,9...	Al-WM 0,5-8 WH	Al-WM 0,75-8 GY	Al-WM 1-8 RD	Al-WM 1,5-8 WH	Al-WM 2,5-8 BU	
0.5																										
1.0																						0.5	0.75	1.0	1.5	2.5
1.5											1.2					1.3										
2.0											1.9					1.6										
2.5												1.9				2.1										
3.0																		2.1								
3.5	> 2.9																									
4.0																										
4.5																										
5.0		> 4.6	> 4.6	> 4.6																						
5.5																										
6.0																										
7.0																										
8.0															7.5											
9.0																										
10.0																										
12.0																										
14.0																										
16.0																										
18.0																										
20.0																										
22.0																										
24.0																										
26.0																										
28.0																										
30.0																										
35.0																										
40.0																										
45.0																										
50.0	> 50	> 50	> 50	> 50			> 50	> 50	> 50	> 50																



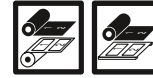
Conductor marker		Marking collars in conjunction with UC-WMT ... / EMT ... / US-WMT ... / WMTW ... / UCT-WMT...
for assembly with cable binders	for threading on	
Page 172	Page 176	Page 214



Conductor and cable marking

Overview of conductor and cable marking

Markers for marking with THERMOMARK... or laser printers



Conductor diameter [mm]	Cable markers for threading on			Cable marker labels									
	Page 182			Page 185									
	US-WMTB (24X5)	US-WMTB (29X8)	US-WMTB (44X15)	WML 3...	WML 5...	WML 6... / US-WML 6...	WML 7,5...	WML 12...	WML 14... / US-WML 14...	WML 18...	WML 22...	WML 36... / US-WML 36...	WML 46...
0.5													
1.0													
1.5													
2.0													
2.5				2.0	2.0								
3.0				3.0						2.5			
3.5						3.0	3.0						
4.0													
4.5			> 4.0										
5.0					5.0								
5.5								5.0	5.0				
6.0						6.0							
7.0							7.5						
8.0											7.0		
9.0													
10.0													
12.0								12.0					
14.0									14.0			11.0	11.0
16.0	> 13.0	> 13.0											
18.0										18.0			
20.0													
22.0											22.0		
24.0													
26.0													
28.0													
30.0													
35.0												36.0	
40.0													
45.0													46.0
50.0	> 50	> 50	> 50										



Device marking - MARKING system

Identifying electrical and electronic control cabinets does not just make service work easier. In some sectors, it is actually a mandatory requirement. Moreover, equipment identification improves the quality of the control cabinets and systems.

Phoenix Contact provides a variety of different markers for device marking. From adhesive labels to high-quality engraving labels, the wide marker range caters for every application.

A variety of printing systems is available for marking or engraving.

Product range overview

Device marking 224

LS-EM... stainless steel, aluminum, plastic, and laser foil device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 226

Aluminum EM... AL and stainless steel EM...-V4A device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 237

UniCard UC-EM... and UCT-EM... device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers 240

Snap-in, for devices from Phoenix Contact and other manufacturers 248

UniSheet US-EM... device marking

Designed to be stuck on, screwed in or riveted or snapped into marker carriers, labels, and combi labels 254

EM... device marking, labels supplied in rolls

Labels for buttons, continuous and textile labels, labels for rough surfaces, for high-temperature and ESD applications, removable labels, labels with anti-tamper protection 264

Insert strips for devices from Phoenix Contact and other manufacturers 280

BMK... device marking, labels supplied as DIN A sheets 282

GPE... and EMLP... device marking, markers for printing or engraving 284

Marker carriers and profiles 286

Device marking overview

The right marking solution for every device

Phoenix Contact 292

Other manufacturers 294



Explicit marking of electrical and electronic control cabinet components is essential for safe and efficient work. As with comprehensive technical documentation, marking all operating equipment increases the availability of the switchgear and simplifies maintenance.

Last but not least, equipment identification improves the quality of the control cabinets and systems. Phoenix Contact provides a wide range of labels and tags. Depending on the type, they can be marked using BLUEMARK, thermal transfer printers, the plotter, engraving devices, commercially available desktop laser printers or by hand.

With the TOPMARK laser marker you can implement resistant, durable marking on high-quality materials in industrial environments.

For the BLUEMARK CLED and THERMOMARK CARD, there is a complete range of plastic labels available for control cabinets as well as for buttons and switchgear.

The labels of all the various printing systems feature a high level of wipe and scratch resistance.

The self-adhesive labels are made from a two-layer material and are highly durable, e.g., where buttons and switches are subject to frequent use. The best way to mark these labels is to use the engraving device of the CMS-P1-PLOTTER plotter.

Please contact us, if you are unable to find a suitable size or color for your application from the options available in our product range.

It goes without saying that Phoenix Contact also provides a comprehensive engraving and marking service for device marking applications. Test us out!



Device markers are available in various sizes, materials, and colors. The self-adhesive labels have been designed for use in a wide temperature range.



Drilled labels are available for marking devices and control cabinets. These can be securely attached to the device using screws or rivets.



The CARRIER marking system is the perfect choice for marking buttons. It consists of a carrier plus marking label and can be used in control cabinets as well as in the field.



High-temperature labels are ideal for marking PCBs. These labels can safely and permanently withstand temperatures of -40°C to 180°C ; or a temperature of 300°C for up to 60 seconds.



Tamper-proof labels are used as rating plates or seals. When they are peeled off, part of the metallic layer comes away, leaving behind a pattern on both the label and the surface.



GPE label sheets consist of a two-layer material that is ideal for engraving. However, the pre-fabricated self-adhesive labels can also be marked directly by hand or using a plotter.



In the case of small print volumes, labels can also be printed using commercially available desktop laser printers. Copy sheets are provided with margins to make it easier to remove individual labels.



The self-adhesive markers are available in various shapes and sizes. They can be used to mark components, devices, and buttons and are highly resistant to chemical and mechanical effects.



Self-adhesive marker carriers are used in conjunction with marking labels for the purpose of marking devices and modules. The carriers can be stuck onto all standard surfaces.

Device marking

Stainless steel and aluminum device marking for screwing or riveting

Can be marked using:



Direct laser marking

PRINTED
FOR YOU



Stainless steel, material thickness: 0.5 mm

- The LS-EMSP ... product range is available in stainless steel (V4A) or aluminum and includes markers that can be quickly and easily fitted with screws or rivets
- The LS-EMSP-V4A ... group is particularly characterized by its high resistance to saltwater, chloride, and solvents and is therefore also suitable for the most demanding industrial requirements
- The LS-EMSP-V4A ... product group can be permanently marked in two ways: by engraving or annealing
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-EMSP-V4A (39x15)
Lettering field size: 39 x 15 mm

Notes:
For matching rivets for securing the LS-EMSP-V4A ... and LS-EMSP-AL ..., see page 368 or the product area on our website at phoenixcontact.net/products .
For drilling diagrams, visit phoenixcontact.net/products .
1) From lettering field size 110 x 80 to 170 x 180 mm, the material thickness is 1.5 mm.

General data
Can be marked using
Material
Wipe resistance
Components

Description
Marking label , with mounting holes 3.2 mm in diameter
24-section
16-section
10-section
6-section
2-section
2-section
2-section
1-section
1-section
Marking label , with mounting holes 3.2 mm in diameter
10-section, red
10-section, orange
10-section, blue
10-section, green
6-section, red
6-section, orange
6-section, blue
6-section, green

Sheet hopper , for TOPMARK LASER

Technical data
TOPMARK LASER
V4A
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EMSP-V4A (39X15)	0831653	5
LS-EMSP-V4A (50X15)	0831654	5
LS-EMSP-V4A (50X30)	0831655	5
LS-EMSP-V4A (75,6X54)	0831656	5
LS-EMSP-V4A (90X60)	0831657	5

Accessories		
TOPMARK LASER-MAG SHEET	0831836	1

PRINTED
FOR YOU



Aluminum, material thickness: 0.8 mm¹)

PRINTED
FOR YOU



Aluminum, black, material thickness: 0.8 mm¹)

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Aluminum, colored, material thickness: 0.8 mm

Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMSP-AL (39X15)	0831615	5
LS-EMSP-AL (50X15)	0831616	5
LS-EMSP-AL (50X30)	0831617	5
LS-EMSP-AL (75,6X54)	0831618	5
LS-EMSP-AL (90X60)	0831619	5
LS-EMSP-AL (110X80)	0831620	5
LS-EMSP-AL (150X80)	0831621	5
LS-EMSP-AL (150X120)	0831622	5
LS-EMSP-AL (170X180)	0831623	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMSP-AL (39X15) BK	0831626	5
LS-EMSP-AL (50X15) BK	0831627	5
LS-EMSP-AL (50X30) BK	0831628	5
LS-EMSP-AL (75,6X54) BK	0831629	5
LS-EMSP-AL (90X60) BK	0831630	5
LS-EMSP-AL (110X80) BK	0831631	5
LS-EMSP-AL (150X80) BK	0831632	5
LS-EMSP-AL (150X120) BK	0831633	5
LS-EMSP-AL (170X180) BK	0831634	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMSP-AL (50X30) RD	0831637	5
LS-EMSP-AL (50X30) OG	0831641	5
LS-EMSP-AL (50X30) BU	0831645	5
LS-EMSP-AL (50X30) GN	0831649	5
LS-EMSP-AL (75,6X54) RD	0831638	5
LS-EMSP-AL (75,6X54) OG	0831642	5
LS-EMSP-AL (75,6X54) BU	0831646	5
LS-EMSP-AL (75,6X54) GN	0831650	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Device marking

Adhesive aluminum device marking

Can be marked using:



Direct laser marking

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FOR YOU



Aluminum, material thickness: 0.8 mm

- The aluminum LS-EMLP-AL ... product range includes self-adhesive device markers with a high adhesive strength
- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-EMLP-AL (27x15)
Lettering field size: 27 x 15 mm
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data

Can be marked using
Material
Wipe resistance
Components

Description

Marking label, aluminum, self-adhesive

40-section
35-section
24-section
16-section
10-section
6-section
2-section

Marking label, aluminum, self-adhesive

10-section, red
10-section, orange
10-section, blue
10-section, green
6-section, red
6-section, orange
6-section, blue
6-section, green

Sheet hopper, for TOPMARK LASER

Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMLP-AL (27X15)	0831580	5
LS-EMLP-AL (27X18)	0831581	5
LS-EMLP-AL (49X15)	0831582	5
LS-EMLP-AL (60X15)	0831583	5
LS-EMLP-AL (60X30)	0831584	5
LS-EMLP-AL (85,6X54)	0831585	5
LS-EMLP-AL (100X60)	0831586	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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PRINTED
FOR YOU



Aluminum, black, material thickness: 0.8 mm

PRINTED
FOR YOU



Aluminum, colored, material thickness: 0.8 mm

Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMLP-AL (27X15) BK	0831589	5
LS-EMLP-AL (27X18) BK	0831590	5
LS-EMLP-AL (49X15) BK	0831591	5
LS-EMLP-AL (60X15) BK	0831592	5
LS-EMLP-AL (60X30) BK	0831593	5
LS-EMLP-AL (85,6X54) BK	0831594	5
LS-EMLP-AL (100X60) BK	0831595	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMLP-AL (60X30) RD	0831598	5
LS-EMLP-AL (60X30) OG	0831602	5
LS-EMLP-AL (60X30) BU	0831606	5
LS-EMLP-AL (60X30) GN	0831610	5
LS-EMLP-AL (85,6X54) RD	0831599	5
LS-EMLP-AL (85,6X54) OG	0831603	5
LS-EMLP-AL (85,6X54) BU	0831607	5
LS-EMLP-AL (85,6X54) GN	0831611	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
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Device marking

Aluminum device marking for snapping into marker carriers



- The aluminum LS-EMP-AL ... product range includes markers that can be quickly and easily fitted into existing CARRIER-EMP ... label frames
- The use of modern laser technology creates highly resistant and permanent marking, which can only be removed by destroying the material
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example: LS-EMP-AL (27x15)**
Lettering field size: 27 x 15 mm
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

Can be marked using:



Direct laser marking

PRINTED
FOR YOU



Aluminum, material thickness: 0.8 mm

General data

Can be marked using
Material
Wipe resistance
Components

Description

Marking label, aluminum, can be snapped into marker carriers

40-section
35-section
24-section
16-section
10-section
6-section
2-section

Sheet hopper, for TOPMARK LASER

Marker carriers, for snap-in labels

Marker size: 27 x 15 mm
Marker size: 49 x 15 mm
Marker size: 60 x 15 mm
Marker size: 60 x 30 mm
Marker size: 85 x 54 mm

Marker carriers, for snap-in labels, for buttons and switches 22 mm in diameter

Marker size: 27 x 15 mm
Marker size: 27 x 18 mm

Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMP-AL (27X15)	0831661	5
LS-EMP-AL (27X18)	0831662	5
LS-EMP-AL (49X15)	0831663	5
LS-EMP-AL (60X15)	0831664	5
LS-EMP-AL (60X30)	0831665	5
LS-EMP-AL (85,6X54)	0831666	5
LS-EMP-AL (100X60)	0831667	5

Accessories

TOPMARK LASER-MAG SHEET	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50



PRINTED
FOR YOU



Aluminum, black, material thickness: 0.8 mm

Technical data

TOPMARK LASER
Aluminum
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Ordering data

Type	Order No.	Pcs. / Pkt.
LS-EMP-AL (27X15) BK	0831669	5
LS-EMP-AL (27X18) BK	0831670	5
LS-EMP-AL (49X15) BK	0831671	5
LS-EMP-AL (60X15) BK	0831672	5
LS-EMP-AL (60X30) BK	0831673	5
LS-EMP-AL (85,6X54) BK	0831674	5
LS-EMP-AL (100X60) BK	0831675	5

Accessories

TOPMARK LASER-MAG SHEET	0831836	1
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50

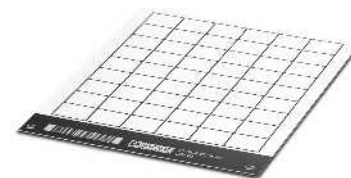
Device marking

Plastic adhesive device marking

Can be marked using:



Direct laser marking



TRANSPLY-ABS, white, material thickness: 0.8 mm

- The LS-EMLP ... product range includes self-adhesive double-layer plastic device markers
- A wide range of different marker sizes is available for custom designs
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-EMLP (11x9) SR
Lettering field size: 11 x 9 mm, silver material with black marking

General data	
Can be marked using	TOPMARK LASER
Material	TRANSPLY-ABS
Temperature range	-20 ... 85 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Technical data	
TOPMARK LASER	
TRANSPLY-ABS	
-20 ... 85 [°C]	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	
Plastic label sheet , self-adhesive, double-layer plastic labels	
1 sheet = 255 labels	
1 sheet = 221 labels	
1 sheet = 220 labels	
1 sheet = 170 labels	
1 sheet = 130 labels	
1 sheet = 100 labels	
1 sheet = 176 labels	
1 sheet = 160 labels	
1 sheet = 104 labels	
1 sheet = 56 labels	
1 sheet = 120 labels	
1 sheet = 78 labels	
1 sheet = 60 labels	
1 sheet = 54 labels	
1 sheet = 36 labels	
1 sheet = 33 labels	
1 sheet = 30 labels	
1 sheet = 30 labels	
1 sheet = 20 labels	
1 sheet = 10 labels	
1 sheet = 6 labels	
1 sheet = 2 labels	

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EMLP (11X9) WH	0831678	10
LS-EMLP (13X9) WH	0831679	10
LS-EMLP (17X7) WH	0831680	10
LS-EMLP (17X9) WH	0831681	10
LS-EMLP (17,5X12) WH	0831682	10
LS-EMLP (17,5X15) WH	0831683	10
LS-EMLP (20X7) WH	0831684	10
LS-EMLP (20X8) WH	0831685	10
LS-EMLP (22X12) WH	0831686	10
LS-EMLP (22X22) WH	0831687	10
LS-EMLP (27X8) WH	0831688	10
LS-EMLP (27X12,5) WH	0831689	10
LS-EMLP (27X15) WH	0831690	10
LS-EMLP (27X18) WH	0831691	10
LS-EMLP (27X27) WH	0831692	10
LS-EMLP (45X14) WH	0831693	10
LS-EMLP (45X15) WH	0831694	10
LS-EMLP (49X15) WH	0831695	10
LS-EMLP (60X15) WH	0831696	10
LS-EMLP (60X30) WH	0831697	10
LS-EMLP (85,6X54) WH	0831698	10
LS-EMLP (100X60) WH	0831699	10

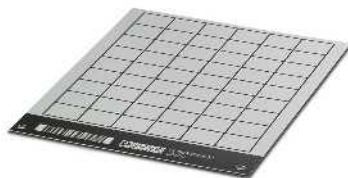
Sheet hopper, for TOPMARK LASER	

Accessories		
TOPMARK LASER-MAG SHEET	0831836	1





TRANSPLY-ABS, yellow,
material thickness: 0.8 mm



TRANSPLY-ABS, silver,
material thickness: 0.8 mm

Technical data
TOPMARK LASER
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Technical data
TOPMARK LASER
TRANSPLY-ABS
-20 ... 85
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EMLP (11X9) YE	0831732	10
LS-EMLP (13X9) YE	0831733	10
LS-EMLP (17X7) YE	0831734	10
LS-EMLP (17X9) YE	0831735	10
LS-EMLP (17,5X12) YE	0831736	10
LS-EMLP (17,5X15) YE	0831737	10
LS-EMLP (20X7) YE	0831738	10
LS-EMLP (20X8) YE	0831739	10
LS-EMLP (22X12) YE	0831740	10
LS-EMLP (22X22) YE	0831741	10
LS-EMLP (27X8) YE	0831742	10
LS-EMLP (27X12,5) YE	0831743	10
LS-EMLP (27X15) YE	0831744	10
LS-EMLP (27X18) YE	0831745	10
LS-EMLP (27X27) YE	0831746	10
LS-EMLP (45X14) YE	0831747	10
LS-EMLP (45X15) YE	0831748	10
LS-EMLP (49X15) YE	0831749	10
LS-EMLP (60X15) YE	0831750	10
LS-EMLP (60X30) YE	0831751	10
LS-EMLP (85,6X54) YE	0831752	10
LS-EMLP (100X60) YE	0831753	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EMLP (11X9) SR	0831705	10
LS-EMLP (13X9) SR	0831706	10
LS-EMLP (17X7) SR	0831707	10
LS-EMLP (17X9) SR	0831708	10
LS-EMLP (17,5X12) SR	0831709	10
LS-EMLP (17,5X15) SR	0831710	10
LS-EMLP (20X7) SR	0831711	10
LS-EMLP (20X8) SR	0831712	10
LS-EMLP (22X12) SR	0831713	10
LS-EMLP (22X22) SR	0831714	10
LS-EMLP (27X8) SR	0831715	10
LS-EMLP (27X12,5) SR	0831716	10
LS-EMLP (27X15) SR	0831717	10
LS-EMLP (27X18) SR	0831718	10
LS-EMLP (27X27) SR	0831719	10
LS-EMLP (45X14) SR	0831720	10
LS-EMLP (45X15) SR	0831721	10
LS-EMLP (49X15) SR	0831722	10
LS-EMLP (60X15) SR	0831723	10
LS-EMLP (60X30) SR	0831724	10
LS-EMLP (85,6X54) SR	0831725	10
LS-EMLP (100X60) SR	0831726	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TOPMARK LASER-MAG SHEET	0831836	1

Device marking

Stick-on device marking, plastic, with hole for switch

Can be marked using:



Direct laser marking

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TRANSPLY-ABS, colored, material thickness: 0.8 mm

- The LS-EMLP 24/ 30/ 32 ... product range includes self-adhesive double-layer plastic device markers with a hole for the switch
- A wide range of different marker sizes is available for custom designs
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-EMLP 24 (30x12) WH
Lettering field size: 30 x 12 mm
Hole diameter for switch: 24 mm, white material with black marking
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	TOPMARK LASER
Material	TRANSPLY-ABS
Temperature range	-20 ... 85 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Technical data		
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Description	Color
Plastic label sheet , with hole for switch, diameter 24 mm, self-adhesive double-layer plastic labels	
1 sheet = 20 labels	white
1 sheet = 20 labels	yellow
1 sheet = 20 labels	silver
Plastic label sheet , with hole for switch, diameter 30 mm, self-adhesive double-layer plastic labels	
1 sheet = 9 labels	white
1 sheet = 9 labels	yellow
1 sheet = 9 labels	silver
Plastic label sheet , with hole for switch, diameter 32 mm, self-adhesive double-layer plastic labels	
1 sheet = 12 labels	white
1 sheet = 12 labels	yellow
1 sheet = 12 labels	silver

Ordering data		
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Type	Order No.	Pcs. / Pkt.
LS-EMLP 24 (30X12) WH	0831700	10
LS-EMLP 24 (30X12) YE	0831754	10
LS-EMLP 24 (30X12) SR	0831727	10
LS-EMLP 30 (45X10) WH	0831701	10
LS-EMLP 30 (45X10) YE	0831755	10
LS-EMLP 30 (45X10) SR	0831728	10
LS-EMLP 32 (38X14) WH	0831702	10
LS-EMLP 32 (38X14) YE	0831756	10
LS-EMLP 32 (38X14) SR	0831729	10

Sheet hopper, for TOPMARK LASER

Accessories		
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TOPMARK LASER-MAG SHEET	0831836	1
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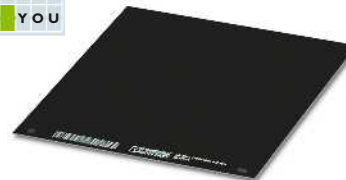
Laser foil adhesive device marking

Can be marked using:



Direct laser marking

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FOR YOU



Polyacrylate, black-white

- The LS-EML ... product range includes self-adhesive, double-layer plastic foil labels that can be custom designed
- The laser foil is characterized by its high heat resistance and particularly strong adhesive properties
- By selecting the material in the CLIP PROJECT planning and configuration software, the correct laser parameters are automatically passed to the TOPMARK LASER
- **Designation example:**
LS-EML (180x180) BK-WH
Lettering field size: 180 x 180 mm, can be custom designed, black material with white marking
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
TOPMARK LASER	
Polyacrylate	
-40 ... 300	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	
Laser foil, double-layer plastic foil, for custom label design	
Lettering field size: 180 x 180 mm	

Ordering data		
Type	Order No.	Pcs. / Pkt.
LS-EML (180X180) BK-WH	0831784	10

Sheet hopper, for TOPMARK LASER	

Accessories		
TOPMARK LASER-MAG SHEET	0831836	1



Device marking

Stick-on aluminum device marking



- The aluminum EMLP-AL... product range includes self-adhesive device markers with a high adhesive strength and is characterized by:
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK CLED
- Marking service: Phoenix Contact can custom-mark EMLP ... markers according to your requirements

- A wide range of different marker sizes is available for custom designs. Formats from 27 x 15 to 100 x 60 mm cover the entire range of device and system marking



- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions



- In conjunction with magazines, optimum printing accuracy is guaranteed

Can be marked using:



UV LED technology

General data

Can be marked using
Material
Wipe resistance

Description	Color
Marking label, aluminum, self-adhesive, can be snapped in, 0.8 mm thick	
Lettering field size: 27 x 15 mm	aluminum
Lettering field size: 27 x 18 mm	aluminum
Lettering field size: 49 x 15 mm	aluminum
Lettering field size: 60 x 15 mm	aluminum
Lettering field size: 60 x 30 mm	aluminum
Lettering field size: 85.6 x 54 mm	aluminum
Lettering field size: 100 x 60 mm	aluminum

Magazine, for BLUEMARK CLED

for accommodating EMP-AL (27X15), EMLP-AL (27X15)

for accommodating EMP-AL (27X18), EMLP-AL (27X18)

for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)

for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)

for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)

for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)

for accommodating EMLP-AL (100X60) and ...-EX versions, EMSP-AL (90X60)

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Aluminum, material thickness: 0.8 mm

Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs. / Pkt.
EMLP-AL (27X15)	0830508	90
EMLP-AL (27X18)	0830509	90
EMLP-AL (49X15)	0830511	45
EMLP-AL (60X15)	0830512	45
EMLP-AL (60X30)	0830513	45
EMLP-AL (85,6X54)	0830514	15
EMLP-AL (100X60)	0830515	15

Accessories

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1

Device marking

Aluminum device marking for screwing or riveting



Can be marked using:



UV LED technology



Aluminum, material thickness: 0.8 mm

- The aluminum EMSP-AL... product range includes markers that can be quickly and easily fitted with screws or rivets and is characterized by:
- High-quality appearance
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark EMSP ... markers according to your requirements
- In conjunction with magazines, optimum printing accuracy is guaranteed

Notes:

For corresponding rivets for fixing the EMSP-AL ..., see page 368.

For drilling diagrams, visit phoenixcontact.net/products

General data

Can be marked using
Material
Wipe resistance

Description	Color
Marking label, aluminum, 0.8 mm thick, with mounting holes 3.2 mm in diameter	
Lettering field size: 39 x 15 mm	aluminum
Lettering field size: 50 x 15 mm	aluminum
Lettering field size: 50 x 30 mm	aluminum
Lettering field size: 75.6 x 54 mm	aluminum
Lettering field size: 90 x 60 mm	aluminum

Magazine, for BLUEMARK CLED

for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)
for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)
for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)
for accommodating EMLP-AL (100X60) and ...-EX versions, EMSP-AL (90X60)

Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs. / Pkt.
EMSP-AL (39X15)	0830510	45
EMSP-AL (50X15)	0830773	45
EMSP-AL (50X30)	0830502	45
EMSP-AL (75,6X54)	0830503	15
EMSP-AL (90X60)	0830504	15

Accessories

BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1
BLUEMARK MAG EM-M (100X60)	0802742	1

Aluminum device marking for snapping into marker carriers

Can be marked using:



UV LED technology



Aluminum, material thickness: 0.8 mm

- The aluminum EMP-AL ... product range includes markers that can be quickly and easily fitted into existing CARRIER-EMP ... label frames and is characterized by:
- The markers can be marked quickly, easily, and cost-effectively with the BLUEMARK CLED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- In conjunction with magazines, optimum printing accuracy is guaranteed
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers according to your requirements

General data	
Can be marked using	
Material	
Wipe resistance	

Description	Color
Marking label, aluminum , 0.8 mm thick, can be snapped into marker carriers	
Lettering field size: 27 x 15 mm	aluminum
Lettering field size: 27 x 18 mm	aluminum
Lettering field size: 49 x 15 mm	aluminum
Lettering field size: 60 x 15 mm	aluminum
Lettering field size: 60 x 30 mm	aluminum
Lettering field size: 85.6 x 54 mm	aluminum

Magazine, for BLUEMARK CLED	
for accommodating EMP-AL (27X15), EMLP-AL (27X15)	
for accommodating EMP-AL (27X18), EMLP-AL (27X18)	
for accommodating EMP-AL (49X15), EMLP-AL (49X15), EMSP-AL (39X15)	
for accommodating EMP-AL (60X15), EMLP-AL (60X15), EMSP-AL (50X15)	
for accommodating EMP-AL (60X30), EMLP-AL (60X30), and ...-EX versions, EMSP-AL (50X30)	
for accommodating EMP-AL (85,6X54), EMLP-AL (85,6X54), and ...-EX versions, EMSP-AL (75,6X54)	

Technical data

BLUEMARK CLED
Aluminum
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs. / Pkt.
EMP-AL (27X15)	0830776	90
EMP-AL (27X18)	0830777	90
EMP-AL (49X15)	0830778	45
EMP-AL (60X15)	0830779	45
EMP-AL (60X30)	0830796	45
EMP-AL (85,6X54)	0830797	15

Accessories

BLUEMARK MAG EM-M (27X15)	0802736	1
BLUEMARK MAG EM-M (27X18)	0802737	1
BLUEMARK MAG EM-M (49X15)	0802738	1
BLUEMARK MAG EM-M (60X15)	0802739	1
BLUEMARK MAG EM-M (60X30)	0802740	1
BLUEMARK MAG EM-M (85,6X54)	0802741	1



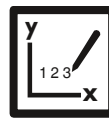
Device marking

UniCard stick-on device marking

Can be marked using:



UV LED technology



Plotter

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Unmarked or marked according to customer specifications

- The UC-EMLP ... UniCard marking range includes self-adhesive device markers with good adhesive properties
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard, with self-adhesive plastic labels	
10-part, lettering field size: 11 x 9 mm	white yellow silver
10-section, lettering field size: 15 x 5 mm	white yellow silver
10-section, lettering field size: 17 x 9 mm	white yellow silver
10-section, lettering field size: 17 x 15 mm	white yellow silver
10-section, lettering field size: 20 x 8 mm	white yellow silver
6-section, lettering field size: 22 x 22 mm	white yellow silver
8-section, lettering field size: 27 x 12.5 mm	white yellow silver blue green
8-section, lettering field size: 27 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 18 mm	white yellow silver
6-section, lettering field size: 27 x 27 mm	white yellow silver
4-section, lettering field size: 49 x 15 mm	white silver yellow
4-section, lettering field size: 60 x 15 mm	white yellow silver
3-section, lettering field size: 60 x 30 mm	white yellow silver

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EMLP (11X9)	0819291	10
UC-EMLP (11X9) YE	0822602	10
UC-EMLP (11X9) SR	0828094	10
UC-EMLP (15X5)	0819301	10
UC-EMLP (15X5) YE	0822615	10
UC-EMLP (15X5) SR	0828095	10
UC-EMLP (17X9)	0819314	10
UC-EMLP (17X9) YE	0822628	10
UC-EMLP (17X9) SR	0828096	10
UC-EMLP (17X15)	0827885	10
UC-EMLP (17X15) YE	0827886	10
UC-EMLP (17X15) SR	0827887	10
UC-EMLP (20X8)	0819327	10
UC-EMLP (20X8) YE	0822631	10
UC-EMLP (20X8) SR	0828097	10
UC-EMLP (22X22)	0825463	10
UC-EMLP (22X22) YE	0825464	10
UC-EMLP (22X22) SR	0825465	10
UC-EMLP (27X12,5)	0825469	10
UC-EMLP (27X12,5) YE	0825470	10
UC-EMLP (27X12,5) SR	0825471	10
UC-EMLP (27X12,5) BU	0830853	10
UC-EMLP (27X12,5) GN	0830854	10
UC-EMLP (27X15)	0827894	10
UC-EMLP (27X15) YE	0827895	10
UC-EMLP (27X15) SR	0827896	10
UC-EMLP (27X18)	0825475	10
UC-EMLP (27X18) YE	0825476	10
UC-EMLP (27X18) SR	0825477	10
UC-EMLP (27X27)	0825481	10
UC-EMLP (27X27) YE	0825482	10
UC-EMLP (27X27) SR	0825483	10
UC-EMLP (49X15)	0827903	10
UC-EMLP (49X15) SR	0827905	10
UC-EMLP (49X15) YE	0827904	10
UC-EMLP (60X15)	0819330	10
UC-EMLP (60X15) YE	0822644	10
UC-EMLP (60X15) SR	0828088	10
UC-EMLP (60X30)	0819343	10
UC-EMLP (60X30) YE	0822657	10
UC-EMLP (60X30) SR	0828091	10



Magazine, for CMS-P1-PLOTTER

Accessories

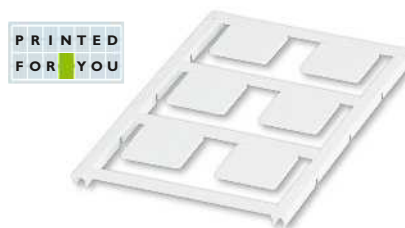
P1 UC-MAG 6	5146121	1
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Stick-on UniCard device marking for applications in process engineering

Can be marked using:



UV LED technology



Unmarked or marked according to customer specifications



- The UC-EMLP...-EX UniCard marking range includes self-adhesive device markers with good adhesive properties
- The marking requirements in terms of legibility, adhesion, and wipe resistance in potentially explosive areas (ATEX), according to IEC/EN 60079-0, can also be ensured following storage in typical gas atmospheres. Phoenix Contact developed these sheets especially for process engineering which is where these requirements typically arise. These sheets meet the requirements for wipe resistance according to DIN EN 61010-1 against aggressive media such as acetone, ethanol, and MEK
- Thanks to the special adhesive, the marker meets the demanding requirements of process engineering
- The markers can be marked quickly, easily, and inexpensively with the BLUEMARK CLED and LED
- By using modern UV LED printing technology, a highly resistant and optimum printing quality can be achieved, which is resistant to solvents and suitable for use even under harsh industrial conditions
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
BLUEMARK CLED • BLUEMARK LED	
PA	
V2	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniCard , with self-adhesive plastic labels	
6-section, lettering field size: 22 x 22 mm	white
8-section, lettering field size: 27 x 18 mm	white
6-section, lettering field size: 27 x 27 mm	white
4-section, lettering field size: 49 x 15 mm	white
3-section, lettering field size: 60 x 30 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-EMLP (22X22)-EX	0803224	10
UC-EMLP (27X18)-EX	0803225	10
UC-EMLP (27X27)-EX	0803226	10
UC-EMLP (49X15)-EX	0803227	10
UC-EMLP (60X30)-EX	0803228	10

Device marking

UniCard device marking for screwing or riveting

Can be marked using:



UV LED technology



Plotter

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Unmarked or marked according to customer specifications

- The UC-EMSP ... UniCard marking range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard , plastic labels with mounting holes 3.2 mm in diameter	
4-section, lettering field size: 50 x 15 mm	white
	yellow
	silver
	blue
	red
3-section, lettering field size: 50 x 30 mm	white
	yellow
	silver

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EMSP (50X15)	0828706	10
UC-EMSP (50X15) YE	0828707	10
UC-EMSP (50X15) SR	0828708	10
UC-EMSP (50X15) BU	0803134	10
UC-EMSP (50X15) RD	0803135	10
UC-EMSP (50X30)	0828709	10
UC-EMSP (50X30) YE	0828710	10
UC-EMSP (50X30) SR	0828711	10

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6	5146121	1
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Notes:

Corresponding rivet for fixing the UC-EMSP ..., see page 368.

For drilling diagrams, visit phoenixcontact.net/products.

UniCard device marking that can be snapped into marker carriers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications



- The UC-EMP ... UniCard marking range includes markers that can be fitted into existing CARRIER-EMP ... label frames
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Notes:
Matching label frames, see page 286.

General data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, 1.2 mm thick 8-section, lettering field size: 17 x 15 mm	white	UC-EMP (17X15)	0825421	10
	yellow	UC-EMP (17X15) YE	0825422	10
	silver	UC-EMP (17X15) SR	0825423	10
8-section, lettering field size: 27 x 15 mm	white	UC-EMP (27X15)	0825439	10
	yellow	UC-EMP (27X15) YE	0825440	10
	silver	UC-EMP (27X15) SR	0825441	10
4-section, lettering field size: 49 x 15 mm	white	UC-EMP (49X15)	0825457	10
	yellow	UC-EMP (49X15) YE	0825458	10
	silver	UC-EMP (49X15) SR	0825459	10
4-section, lettering field size: 60 x 15 mm	white	UC-EMP (60X15)	0822259	10
	yellow	UC-EMP (60X15) YE	0825330	10
	silver	UC-EMP (60X15) SR	0827647	10
3-section, lettering field size: 60 x 30 mm	white	UC-EMP (60X30)	0822275	10
	yellow	UC-EMP (60X30) YE	0825331	10
	silver	UC-EMP (60X30) SR	0827648	10

Magazine, for CMS-P1-PLOTTER

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
PA
V2
-40 ... 120 [°C]
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EMP (17X15)	0825421	10
UC-EMP (17X15) YE	0825422	10
UC-EMP (17X15) SR	0825423	10
UC-EMP (27X15)	0825439	10
UC-EMP (27X15) YE	0825440	10
UC-EMP (27X15) SR	0825441	10
UC-EMP (49X15)	0825457	10
UC-EMP (49X15) YE	0825458	10
UC-EMP (49X15) SR	0825459	10
UC-EMP (60X15)	0822259	10
UC-EMP (60X15) YE	0825330	10
UC-EMP (60X15) SR	0827647	10
UC-EMP (60X30)	0822275	10
UC-EMP (60X30) YE	0825331	10
UC-EMP (60X30) SR	0827648	10

Accessories

P1 UC-MAG 6	5146121	1
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Device marking

UniCard device marking that can be snapped into marker carriers

Can be marked using:



UV LED technology



Plotter

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

- The UC-EMP ... UniCard marking range includes markers for all applications
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The UC-EMP ... device markers are ideal for fitting into existing CARRIER-EMP ... label frames
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts

Notes:
Matching label frames, see page 286.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniCard , 1.2 mm thick	
10-section, lettering field size: 27 x 8 mm	white yellow silver
8-section, lettering field size: 27 x 12.5 mm	white yellow silver
8-section, lettering field size: 27 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 18 mm	white yellow silver
6-section, lettering field size: 27 x 27 mm	white yellow silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-EMP (27X8)	0825427	10
UC-EMP (27X8) YE	0825428	10
UC-EMP (27X8) SR	0825429	10
UC-EMP (27X12,5)	0825433	10
UC-EMP (27X12,5) YE	0825434	10
UC-EMP (27X12,5) SR	0825435	10
UC-EMP (27X15)	0825439	10
UC-EMP (27X15) YE	0825440	10
UC-EMP (27X15) SR	0825441	10
UC-EMP (27X18)	0825445	10
UC-EMP (27X18) YE	0825446	10
UC-EMP (27X18) SR	0825447	10
UC-EMP (27X27)	0825451	10
UC-EMP (27X27) YE	0825452	10
UC-EMP (27X27) SR	0825453	10

Magazine, for CMS-P1-PLOTTER	

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 6	5146121	1

UniCard snap-in device marking for devices from various manufacturers

Can be marked using:



UV LED technology



Plotter



Unmarked or marked according to customer specifications

- The UC-EM ... UniCard marking range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data	
Can be marked using	BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
Number of individual labels	20
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
UniCard , for marking devices from the following manufacturers: Siemens	
Lettering field size: 10 x 7 mm	white
Lettering field size: 10 x 7 mm	turquoise
UniCard , for marking devices from the following manufacturers: Bosch/Rexroth, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens	
Lettering field size: 10 x 8 mm	white
Lettering field size: 10 x 8 mm	turquoise
UniCard , for marking devices from the following manufacturers: ABB, Lumberg	
Lettering field size: 17.5 x 7.5 mm	white
UniCard , for marking devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik	
Lettering field size: 17.5 x 8 mm	white

Magazine , for CMS-P1-PLOTTER

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-EM (10X7)	0825487	10
UC-EM (10X7) TQ	0825488	10
UC-EM (10X8)	0825491	10
UC-EM (10X8) TQ	0825492	10
UC-EM (17,5X7,5)	0825495	10
UC-EM (17,5X8)	0823766	10

Accessories

P1 UC-MAG 6	5146121	1
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Device marking

UniCard snap-in device marking for devices from various manufacturers



- The UC-EM ... UniCard marking range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Can be marked using:



UV LED technology



Plotter

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Unmarked or marked according to customer specifications

General data

Can be marked using	
Number of individual labels	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for marking devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller				
Lettering field size: 17.5 x 9 mm	white	UC-EM (17,5X9)	0827490	10
	yellow	UC-EM (17,5X9) YE	0827494	10
UniCard , for marking devices from the following manufacturers: Schneider Electric, ifm-electronic				
Lettering field size: 18 x 8 mm	white	UC-EM (18X8)	0825497	10
UniCard , for marking devices from the following manufacturers: Lumberg, Weidmüller				
Lettering field size: 19 x 9 mm	white	UC-EM (19X9)	0827492	10
	yellow	UC-EM (19X9) YE	0827496	10
UniCard , for marking devices from the following manufacturers: Harting, ifm-electronic, Phoenix Contact, Siemens				
Lettering field size: 20 x 7 mm	white	UC-EM (20X7)	0825499	10
	turquoise	UC-EM (20X7) TQ	0825500	10

Accessories

Magazine , for CMS-P1-PLOTTER				
P1 UC-MAG 6		5146121		1

UniCard snap-in device marking for devices from various manufacturers



Unmarked or marked according to customer specifications

General data		Technical data		
Can be marked using		BLUEMARK CLED • BLUEMARK LED • CMS-P1-PLOTTER		
Number of individual labels		20		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for marking devices from the following manufacturers: ABB, Conta-Clip, Escha, Festo, ifm-electronik, Harting, Moeller, Phoenix Contact, Siemens				
Lettering field size: 20 x 9 mm	white	UC-EM (20X9)	0825503	10
Lettering field size: 20 x 9 mm	yellow	UC-EM (20X9) YE	0827637	10
Lettering field size: 20 x 9 mm	turquoise	UC-EM (20X9) TQ	0825504	10
UniCard , for marking devices for marking devices from the following manufacturers: Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white	UC-EM (21X8)	0825507	10
Magazine, for CMS-P1-PLOTTER		Accessories		
		P1 UC-MAG 5	5146118	1

Device marking

UniCard snap-in device marking for Axioline E series

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking



Unmarked or marked according to customer specifications

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
free from silicone, halogen, and cadmium

Technical data

Description

Color

UniCard, for marking Phoenix Contact devices, Axioline

Lettering field size: 7 x 10 mm, 30 individual labels

white

Ordering data

Type

Order No.

Pcs. / Pkt.

UCT-EM (7X10)

0830765

10

Accessories

Magazine, for THERMOMARK CARD ..., for accommodating UCT-WMT ... sheets, UCT-EM (17X10)

THERMOMARK CARD-UCT-MAG7

0801734

1

UniCard snap-in device marking for devices from various manufacturers



Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

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Unmarked or marked according to customer specifications

The UCT-EM ... UniCard marking range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniCard , for marking devices from the following manufacturers: CONTA-CLIP, Murr Elektronik, 66 individual markers	
Lettering field size: 5 x 10 mm	white
UniCard , for marking devices from the following manufacturers: CONTA-CLIP, Festo, Finder, 54 individual markers	
Lettering field size: 6 x 10 mm	white
UniCard , for marking devices from the following manufacturers: Beckhoff, Escha, Lumberg, Murr Elektronik, Pepperl & Fuchs, Turck, 54 individual markers	
Lettering field size: 10 x 5 mm	white
UniCard , for marking devices from the following manufacturers: Siemens, 54 individual markers	
Lettering field size: 10 x 7 mm	white
Lettering field size: 10 x 7 mm	turquoise
UniCard , for marking devices from the following manufacturers: Bosch/Rexroth, ifm-electronic, Lumberg, Pepperl & Fuchs, Siemens, 54 individual markers	
Lettering field size: 10 x 8 mm	white
Lettering field size: 10 x 8 mm	turquoise

Magazine , for THERMOMARK CARD ... for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ..., UCT-EM (5X10), UCT-EM (6X10)	
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (10X5)	
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (10 x 7), UCT-WMTB (29 x 8)	
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7)	

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (5X10)	0801497	10
UCT-EM (6X10)	0801493	10
UCT-EM (10X5)	0801470	10
UCT-EM (10X7)	0801498	10
UCT-EM (10X7) TQ	0801499	10
UCT-EM (10X8)	0801485	10
UCT-EM (10X8) TQ	0801486	10

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
THERMOMARK CARD-UCT-MAG13	0830400	1
THERMOMARK CARD-UCT-MAG20	0830751	1
THERMOMARK CARD-UCT-MAG12	0830399	1

Device marking

UniCard snap-in device marking for devices from various manufacturers



The UCT-EM ... UniCard marking range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

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Unmarked or marked according to customer specifications

General data

Can be marked using

Number of individual labels

Material

Inflammability class according to UL 94

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER

30

PC

V0

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color
UniCard , for marking devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 3.3 mm	white
UniCard , for marking devices from the following manufacturers: Bernecke + Rainer Lettering field size: 12 x 6 mm	white
UniCard , for marking devices from the following manufacturers: Beckhoff, Wago Lettering field size: 12 x 7 mm	white
UniCard , for marking devices from the following manufacturers: Siemens Lettering field size: 15 x 10 mm	white

Type	Order No.	Pcs. / Pkt.
UCT-EM (12X3,3)	0801502	10
UCT-EM (12X6)	0801503	10
UCT-EM (12X7)	0801501	10
UCT-EM (15X10)	0801504	10

Accessories

Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (12X3.3), UCT-EM (12X6)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (12X3.3), UCT-EM (12X6)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (10X8), UCT-EM (12X7)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10)

THERMOMARK CARD-UCT-MAG9	0801736	1
THERMOMARK CARD-UCT-MAG9	0801736	1
THERMOMARK CARD-UCT-MAG12	0830399	1
THERMOMARK CARD-UCT-MAG8	0801735	1

UniCard snap-in device marking for devices from various manufacturers



Unmarked or marked according to customer specifications

Technical data

General data		Technical data	
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER	
Number of individual labels		24	
Material		PC	
Inflammability class according to UL 94		V0	
Temperature range	[°C]	-40 ... 120	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		Free from silicone and halogen	

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for marking devices from the following manufacturers: ABB, Festo, Finder, Murr Elektronik, Wago				
Lettering field size: 17 x 9 mm	white	UCT-EM (17X9)	0801475	10
Lettering field size: 17 x 9 mm	yellow	UCT-EM (17X9) YE	0801476	10
UniCard , for marking devices from the following manufacturers: Allen Bradley, Festo				
Lettering field size: 17 x 10 mm	white	UCT-EM (17X10)	0801483	10
Lettering field size: 17 x 10 mm	yellow	UCT-EM (17X10) YE	0801484	10
UniCard , for marking devices from the following manufacturers: ABB, Lumberg				
Lettering field size: 17.5 x 7.5 mm	white	UCT-EM (17,5X7,5)	0801482	10
UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 17 x 8 mm	white	UCT-EM (17X8)	0801842	10

Accessories

Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17 x 9)	THERMOMARK CARD-UCT-MAG16	0830403	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17X10) and (20X8)	THERMOMARK CARD-UCT-MAG11	0801738	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X7,5)	THERMOMARK CARD-UCT-MAG18	0830405	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (21X8) and UCT EM (17X8)	THERMOMARK CARD-UCT-MAG14	0830401	1

Device marking

UniCard snap-in device marking for devices from various manufacturers



The UCT-EM ... UniCard marking range includes markers for devices and switchgear from a wide range of manufacturers.

- The markers, which are supplied in uniform sheets, can be marked quickly and easily using the BLUEMARK CLED, TOPMARK LASER, and the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The large temperature range for application means that the labels can be used in control cabinets as well as in the field
- The sheets provide space to include function texts
- An overview of the devices that support marking plus their manufacturers can be found starting on page 292
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements

Can be marked using:



Thermal transfer for sheets and cards



UV LED technology



Direct laser marking

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Unmarked or marked according to customer specifications

General data

Can be marked using	
Number of individual labels	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER
24
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
UniCard , for marking devices from the following manufacturers: ABB, ifm-electronic, Moeller, Murr Elektronik	
Lettering field size: 17.5 x 8 mm	white
UniCard , for marking devices from the following manufacturers: Murr Elektronik, Phoenix Contact, Weidmüller	
Lettering field size: 17.5 x 9 mm	white
Lettering field size: 17.5 x 9 mm	yellow
UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik	
Lettering field size: 18 x 8 mm	white
UniCard , for marking devices from the following manufacturers: ifm-electronic, Phoenix Contact, Siemens	
Lettering field size: 20 x 7 mm	white
Lettering field size: 20 x 7 mm	turquoise

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT-EM (17,5X8)	0801496	10
UCT-EM (17,5X9)	0801491	10
UCT-EM (17,5X9) YE	0801492	10
UCT-EM (18X8)	0801488	10
UCT-EM (20X7)	0801494	10
UCT-EM (20X7) TQ	0801495	10

Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X8), UCT-EM (20X7), UCT-EM (15X10)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17,5X9)
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (18 x 8)

Accessories

Accessories	Order No.	Pcs. / Pkt.
THERMOMARK CARD-UCT-MAG8	0801735	1
THERMOMARK CARD-UCT-MAG22	0830771	1
THERMOMARK CARD-UCT-MAG17	0830404	1

UniCard snap-in device marking for devices from various manufacturers



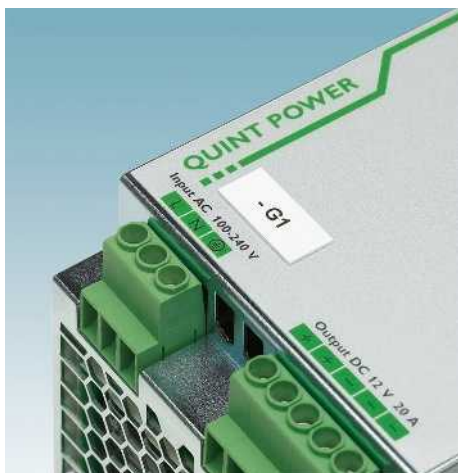
Unmarked or marked according to customer specifications

General data		Technical data		
Can be marked using		THERMOMARK CARD • BLUEMARK CLED • BLUEMARK LED • TOPMARK LASER		
Number of individual labels		24		
Material		PC		
Inflammability class according to UL 94		V0		
Temperature range		-40 ... 120 [°C]		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Free from silicone and halogen		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for marking devices from the following manufacturers: Escha, Murr Elektronik, Turck				
Lettering field size: 20 x 8 mm	white	UCT-EM (20X8)	0801477	10
UniCard , for marking devices from the following manufacturers: ABB, Conta-Clip, Escha, Festo, ifm-electronic, Lumberg, Moeller, Murr Elektronik, Pepperl & Fuchs, Phoenix Contact, Siemens, Turck, Weidmüller				
Lettering field size: 20 x 9 mm	white	UCT-EM (20X9)	0801471	10
Lettering field size: 20 x 9 mm	turquoise	UCT-EM (20X9) TQ	0801473	10
Lettering field size: 20 x 9 mm	yellow	UCT-EM (20X9) YE	0801472	10
UniCard , for marking devices from the following manufacturers: ABB, Schneider Electric, ifm-electronic, Murr Elektronik				
Lettering field size: 21 x 8 mm	white	UCT-EM (21X8)	0801489	10
Magazine		Accessories		
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (17X10) and (20X8)		THERMOMARK CARD-UCT-MAG11	0801738	1
for accommodating UCT-EM (20 x 9)		THERMOMARK CARD-UCT-MAG15	0830402	1
Magazine , for THERMOMARK CARD ... for accommodating UCT-EM (21X8) and UCT EM (17X8)		THERMOMARK CARD-UCT-MAG14	0830401	1

Device marking

UniSheet stick-on device marking

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

- The US-EMLP ... UniSheet marking range includes self-adhesive device markers with good adhesive properties in different sizes for:
 - Device marking
 - Module marking
 - Switchgear marking
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- For more label sizes, visit phoenixcontact.net/products

Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet , with self-adhesive plastic labels, 0.5 mm thick	
88-section, lettering field size: 8.8 x 15 mm	white yellow red silver
135-section, lettering field size: 11 x 9 mm	white yellow silver
189-section, lettering field size: 15 x 5 mm	white yellow silver
108-section, lettering field size: 17 x 7 mm	white yellow silver
54-section, lettering field size: 17 x 15 mm	white yellow silver
75-section, lettering field size: 20 x 9 mm	white yellow silver
24-section, lettering field size: 22 x 22 mm	white yellow silver
51-section, lettering field size: 27 x 8 mm	white yellow silver
30-section, lettering field size: 27 x 12.5 mm	white yellow silver
27-section, lettering field size: 27 x 15 mm	white yellow silver

Ordering data			
Type	Order No.	Pcs. / Pkt.	
US-EMLP (8,8X15)	0830303	10	
US-EMLP (8,8X15) YE	0830316	10	
US-EMLP (8,8X15) RD	0830318	10	
US-EMLP (8,8X15) SR	0830317	10	
US-EMLP (11X9)	0828789	10	
US-EMLP (11X9) YE	0828871	10	
US-EMLP (11X9) SR	0828872	10	
US-EMLP (15X5)	0828790	10	
US-EMLP (15X5) YE	0828873	10	
US-EMLP (15X5) SR	0828874	10	
US-EMLP (17X7)	0828792	10	
US-EMLP (17X7) YE	0828877	10	
US-EMLP (17X7) SR	0828878	10	
US-EMLP (17,5X15)	0830839	10	
US-EMLP (17X15) YE	0828879	10	
US-EMLP (17X15) SR	0828880	10	
US-EMLP (20X9)	0828795	10	
US-EMLP (20X9) YE	0828883	10	
US-EMLP (20X9) SR	0828884	10	
US-EMLP (22X22)	0828796	10	
US-EMLP (22X22) YE	0828885	10	
US-EMLP (22X22) SR	0828886	10	
US-EMLP (27X8)	0828797	10	
US-EMLP (27X8) YE	0828889	10	
US-EMLP (27X8) SR	0828890	10	
US-EMLP (27X12,5)	0828798	10	
US-EMLP (27X12,5) YE	0828891	10	
US-EMLP (27X12,5) SR	0828892	10	
US-EMLP (27X15)	0828799	10	
US-EMLP (27X15) YE	0828893	10	
US-EMLP (27X15) SR	0828894	10	

Magazine, for THERMOMARK CARD..., for accommodating all US-materials	

Accessories		
THERMOMARK CARD-US-MAG1	5146451	1

UniSheet stick-on device marking



Unmarked or marked according to customer specifications

Technical data

General data		Technical data	
Can be marked using		THERMOMARK CARD	
Material		PVC	
Inflammability class according to UL 94		V0	
Temperature range	[°C]	-30 ... 80	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		Silicone-free	

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet , with self-adhesive plastic labels, 0.5 mm thick				
21-section, lettering field size: 27 x 18 mm	white	US-EMLP (27X18)	0828800	10
	yellow	US-EMLP (27X18) YE	0828895	10
	silver	US-EMLP (27X18) SR	0828896	10
15-section, lettering field size: 27 x 27 mm	white	US-EMLP (27X27)	0828801	10
	yellow	US-EMLP (27X27) YE	0828897	10
	silver	US-EMLP (27X27) SR	0828898	10
45-section, lettering field size: 35 x 9 mm	white	US-EMLP (35X9)	0828802	10
	yellow	US-EMLP (35X9) YE	0828899	10
	silver	US-EMLP (35X9) SR	0829430	10
27-section, lettering field size: 35 x 15 mm	white	US-EMLP (35X15)	0830300	10
	yellow	US-EMLP (35X15) YE	0830319	10
	red	US-EMLP (35X15) RD	0830321	10
	silver	US-EMLP (35X15) SR	0830320	10
28-section, lettering field size: 40 x 10 mm	white	US-EMLP (40X10)	0830341	10
	yellow	US-EMLP (40X10) YE	0830342	10
	silver	US-EMLP (40X10) SR	0830328	10
18-section, lettering field size: 49 x 15 mm	white	US-EMLP (49X15)	0828803	10
	yellow	US-EMLP (49X15) YE	0828901	10
	silver	US-EMLP (49X15) SR	0828902	10
16-section, lettering field size: 52.5 x 15 mm	white	US-EMLP (52,5X15)	0830301	10
	yellow	US-EMLP (52,5X15) YE	0830322	10
	red	US-EMLP (52,5X15) RD	0830324	10
	silver	US-EMLP (52,5X15) SR	0830323	10
9-section, lettering field size: 60 x 15 mm	white	US-EMLP (60X15)	0828804	10
	yellow	US-EMLP (60X15) YE	0828903	10
	silver	US-EMLP (60X15) SR	0828904	10
4-section, lettering field size: 60 x 30 mm	white	US-EMLP (60X30)	0828805	10
	yellow	US-EMLP (60X30) YE	0828905	10
	silver	US-EMLP (60X30) SR	0828906	10
8-section, lettering field size: 70 x 15 mm	white	US-EMLP (70X15)	0830302	10
	yellow	US-EMLP (70X15) YE	0830325	10
	red	US-EMLP (70X15) RD	0830327	10
	silver	US-EMLP (70X15) SR	0830326	10
2-section, lettering field size: 85.6 x 54 mm	white	US-EMLP (85,6X54)	0828806	10
	yellow	US-EMLP (85,6X54) YE	0828907	10
	silver	US-EMLP (85,6X54) SR	0828908	10
	red	US-EMLP (85,6X54) RD	0830841	10
2-section, lettering field size: 100 x 60 mm	white	US-EMLP (100X60)	0828807	10
	yellow	US-EMLP (100X60) YE	0828909	10
	silver	US-EMLP (100X60) SR	0828910	10
1-section, lettering field size: 104 x 135 mm	white	US-EMLP (104X135)	0830304	10
	yellow	US-EMLP (104X135) YE	0830305	10
	silver	US-EMLP (104X135) SR	0830306	10

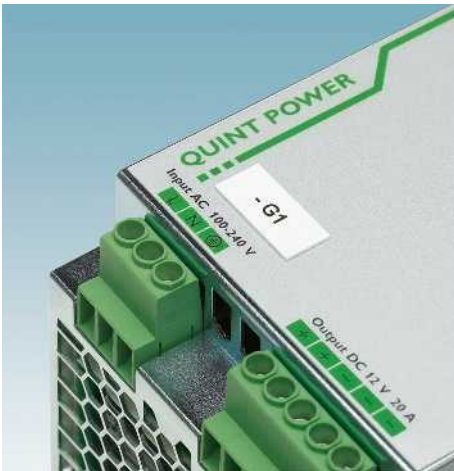
Accessories

Magazine, for THERMOMARK CARD..., for accommodating all US-materials			
THERMOMARK CARD-US-MAG1		5146451	1

Device marking

UniSheet device marking for sticking onto rough or textured surfaces

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

- The US-EMLP-HA ... UniSheet marking range has excellent adhesive properties on rough, textured, and low-energy surfaces, thanks to the special adhesive
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all US-EMLP-HA ... markers according to your requirements

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
UniSheet , with self-adhesive plastic labels, 0.5 mm thick	
108-section, lettering field size: 17 x 7 mm	white
70-section, lettering field size: 20 x 9 mm	white
4-section, lettering field size: 60 x 30 mm	white
4-section, lettering field size: 60 x 30 mm	silver
2-section, lettering field size: 85.6 x 54 mm	white
2-section, lettering field size: 85.6 x 54 mm	silver

Ordering data

Type	Order No.	Pcs. / Pkt.
US-EMLP-HA (17X7)	0830988	10
US-EMLP-HA (20X9)	0830989	10
US-EMLP-HA (60X30)	0830990	10
US-EMLP-HA (60X30) SR	0830991	10
US-EMLP-HA (85,6X54)	0830992	10
US-EMLP-HA (85,6X54) SR	0830993	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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UniSheet device marking that can be snapped into marker carriers

Can be marked using:



Thermal transfer for sheets and cards

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Unmarked or marked according to customer specifications

- The US-EMP ... UniSheet marking range includes markers that can be fitted into existing CARRIER EMP ... label frames
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts

Notes:
Matching label frames, see page 286.

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet , just 0.5 mm thick				
54-section, lettering field size: 17 x 15 mm	white	US-EMP (17X15)	0828774	10
	yellow	US-EMP (17X15) YE	0828842	10
	silver	US-EMP (17X15) SR	0828843	10
70-section, lettering field size: 20 x 9 mm	white	US-EMP (20X9)	0829439	10
84-section, lettering field size: 25 x 6 mm	white	US-EMP (25X6)-1	0802754	10
84-section, lettering field size: 26 x 6 mm	white	US-EMP (25X6)	0829435	10
51-section, lettering field size: 27 x 8 mm	white	US-EMP (27X8)	0828775	10
	yellow	US-EMP (27X8) YE	0828844	10
	silver	US-EMP (27X8) SR	0828845	10
30-section, lettering field size: 27 x 12.5 mm	white	US-EMP (27X12,5)	0828776	10
	yellow	US-EMP (27X12,5) YE	0828846	10
	silver	US-EMP (27X12,5) SR	0828847	10
27-section, lettering field size: 27 x 15 mm	white	US-EMP (27X15)	0828777	10
	yellow	US-EMP (27X15) YE	0828848	10
	silver	US-EMP (27X15) SR	0828849	10
21-section, lettering field size: 27 x 18 mm	white	US-EMP (27X18)	0828778	10
	yellow	US-EMP (27X18) YE	0828850	10
	silver	US-EMP (27X18) SR	0828851	10
15-section, lettering field size: 27 x 27 mm	white	US-EMP (27X27)	0828779	10
	yellow	US-EMP (27X27) YE	0828852	10
	silver	US-EMP (27X27) SR	0828853	10
21-section, lettering field size: 27,9 x 17,4 mm		US-EMP (27,9X17,4)	0830980	10
	silver	US-EMP (27,9X17,4) SR	0803300	10
48-section, lettering field size: 29 x 8 mm	white	US-EMP (29X8)	0829436	10
	yellow	US-EMP (29X8) YE	0829440	10
42-section, lettering field size: 35 x 9 mm	white	US-EMP (35X9)	0830842	10
	yellow	US-EMP (35X9) YE	0830843	10
	silver	US-EMP (35X9) SR	0830844	10
16-section, lettering field size: 40 x 17 mm	white	US-EMP (40X17)	0829437	10
40-section, lettering field size: 44 x 7 mm	white	US-EMP (44X7)	0829438	10
18-section, lettering field size: 49 x 15 mm	white	US-EMP (49X15)	0828780	10
	yellow	US-EMP (49X15) YE	0828854	10
	silver	US-EMP (49X15) SR	0828855	10
9-section, lettering field size: 60 x 15 mm	white	US-EMP (60X15)	0828781	10
	yellow	US-EMP (60X15) YE	0828856	10
	silver	US-EMP (60X15) SR	0828857	10
4-section, lettering field size: 60 x 30 mm	white	US-EMP (60X30)	0828782	10
	yellow	US-EMP (60X30) YE	0828858	10
	silver	US-EMP (60X30) SR	0828859	10
2-section, lettering field size: 85,6 x 54 mm	white	US-EMP (85,6X54)	0828783	10
	yellow	US-EMP (85,6X54) YE	0828860	10
	silver	US-EMP (85,6X54) SR	0828861	10
9-section, lettering field size: 100 x 15 mm	white	US-EMP (100X15)	0829521	10
	yellow	US-EMP (100X15) YE	0829522	10
	silver	US-EMP (100X15) SR	0829523	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

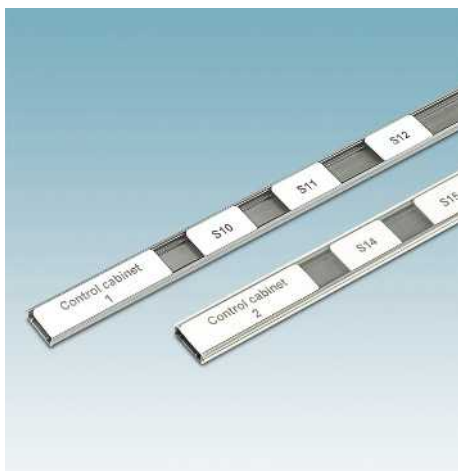
Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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Device marking

UniSheet device marking that can be snapped into marker carriers

Can be marked using:



Thermal transfer for sheets and cards

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Unmarked or marked according to customer specifications

The US-EMP ... UniSheet device markers can be easily and individually snapped into the CARRIER(/L)-EMP (1000X15)... marker profile. They offer the following advantages and are suitable for the following:

- Device marking
- Module marking
- Switchgear marking
- The labels are available in different sizes corresponding to common device pitch measurements
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts

Marking of power circuit breakers, for example:

- 8.8 x 15 mm for ABB, Schneider Electric
- 17 x 15 mm for ABB, Hager, Legrand
- 35 x 15 mm for ABB, Legrand, Schneider Electric
- 52.5 x 15 mm for ABB, Legrand, Schneider Electric
- 70 x 15 mm for Legrand, Schneider Electric

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
Temperature range	-30 ... 80
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet , 0.5 mm thick, can be marked with THERMOMARK CARD	
88-section, lettering field size: 8.8 x 15 mm	white yellow red silver
54-section, lettering field size: 17 x 15 mm	white yellow silver
27-section, lettering field size: 27 x 15 mm	white yellow silver
24-section, lettering field size: 35 x 15 mm	white yellow red silver
18-section, lettering field size: 49 x 15 mm	white yellow silver
16-section, lettering field size: 52.5 x 15 mm	white yellow red silver
9-section, lettering field size: 60 x 15 mm	white yellow silver
8-section, lettering field size: 70 x 15 mm	white yellow red silver
9-section, lettering field size: 100 x 15 mm	white yellow silver

Ordering data			
Type	Order No.	Pcs. / Pkt.	
US-EMP (8,8X15)	0830293	10	
US-EMP (8,8X15) YE	0830426	10	
US-EMP (8,8X15) RD	0830428	10	
US-EMP (8,8X15) SR	0830427	10	
US-EMP (17X15)	0828774	10	
US-EMP (17X15) YE	0828842	10	
US-EMP (17X15) SR	0828843	10	
US-EMP (27X15)	0828777	10	
US-EMP (27X15) YE	0828848	10	
US-EMP (27X15) SR	0828849	10	
US-EMP (35X15)	0830295	10	
US-EMP (35X15) YE	0830307	10	
US-EMP (35X15) RD	0830309	10	
US-EMP (35X15) SR	0830308	10	
US-EMP (49X15)	0828780	10	
US-EMP (49X15) YE	0828854	10	
US-EMP (49X15) SR	0828855	10	
US-EMP (52,5X15)	0830296	10	
US-EMP (52,5X15) YE	0830310	10	
US-EMP (52,5X15) RD	0830312	10	
US-EMP (52,5X15) SR	0830311	10	
US-EMP (60X15)	0828781	10	
US-EMP (60X15) YE	0828856	10	
US-EMP (60X15) SR	0828857	10	
US-EMP (70X15)	0830297	10	
US-EMP (70X15) YE	0830313	10	
US-EMP (70X15) RD	0830315	10	
US-EMP (70X15) SR	0830314	10	
US-EMP (100X15)	0829521	10	
US-EMP (100X15) YE	0829522	10	
US-EMP (100X15) SR	0829523	10	

Profile , for screwing or riveting, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL material with a height of 15 mm	gray transparent
Profile , self-adhesive, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL ... material with a height of 15 mm	gray transparent
CARRIER cover , 1000 mm long	transparent
Magazine , for THERMOMARK CARD..., for accommodating all US-materials	

Accessories			
Type	Order No.	Pcs. / Pkt.	
CARRIER-EMP (1000X15) GY	0829366	25	
CARRIER-EMP (1000X15) TR	0829530	25	
CARRIER/L-EMP (1000X15) GY	0829559	25	
CARRIER/L-EMP (1000X15) TR	0829560	25	
CARRIER-EMP (1000X15) COVER	0829520	25	
THERMOMARK CARD-US-MAG1	5146451	1	

UniSheet device marking for screwing or riveting

Can be marked using:



Thermal transfer for sheets and cards



Unmarked or marked according to customer specifications

- The US-EMSP ... UniSheet marking range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

Notes:
For corresponding rivets for fixing the US-EMSP ..., see page 368.

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet , 0.5 mm thick, with mounting holes 3.2 mm in diameter	
4-section, lettering field size: 50 x 30 mm	white
	yellow
	silver
2-section, lettering field size: 75.6 x 54 mm	white
	yellow
	silver
2-section, lettering field size: 90 x 60 mm	white
	yellow
	silver
	red
	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-EMSP (50X30)	0828786	10
US-EMSP (50X30) YE	0828927	10
US-EMSP (50X30) SR	0828928	10
US-EMSP (75,6X54)	0828787	10
US-EMSP (75,6X54) YE	0828929	10
US-EMSP (75,6X54) SR	0828930	10
US-EMSP (90X60)	0828788	10
US-EMSP (90X60) YE	0828931	10
US-EMSP (90X60) SR	0828932	10
US-EMSP (90X60) RD	0802937	10
US-EMSP (90X60) BU	0803038	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials	

Accessories		
	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

Device marking

UniSheet device marking for sticking on and additional screwing or riveting

Can be marked using:



Thermal transfer for sheets and cards

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Unmarked or marked according to customer specifications

- The US-EMLSP ... UniSheet marking range includes adhesive markers which can also be attached with screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers are easy to separate and can be easily fitted
- The sheets provide space to include function texts
- Marking service: Phoenix Contact can custom-mark all UniSheet markers in accordance with your requirements

Notes:
For corresponding rivets for fixing the UC-EMLSP ..., see page 368.
For drilling diagrams, visit phoenixcontact.net/products

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniSheet , with self-adhesive plastic labels, mounting holes with 3.2 mm diameter, 0.5 mm thick	
Lettering field size: 28 x 10 mm	white yellow silver

Magazine , for THERMOMARK CARD..., for accommodating all US-materials
--

Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-EMLSP (28X10)	0830343	10
US-EMLSP (28X10) YE	0830344	10
US-EMLSP (28X10) SR	0830329	10

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

UniSheet device marking, stick-on labels

Can be marked using:



Thermal transfer for sheets and cards

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

- The US-EML ... UniSheet marking ranges include markers for marking equipment in switchgear and systems manufacturing
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The perforated markers and labels are easy to separate and can be easily fitted
- When used in conjunction with high-quality ink ribbons, they result in a highly resistant form of marking that is suitable for harsh environments
- The sheets provide space to include function texts
- The US-EML ... material is UL-listed

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
UniSheet, with self-adhesive labels 80-section, lettering field size: 17.5 x 8 mm	white
	yellow
64-section, lettering field size: 20 x 8 mm	white
	yellow
34-section, lettering field size: 104 x 3.8 mm	white
1-section, lettering field size: 104 x 140 mm	white
	yellow
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-EML (17,5X8)	0800461	10
US-EML (17,5X8) YE	0800463	10
US-EML (20X8)	0800458	10
US-EML (20X8) YE	0800460	10
US-EML (104X3,8)	0800464	10
US-EML (104X140)	0800465	10
US-EML (104X140) YE	0800467	10
US-EML (104X140) SR	0800466	10

Accessories		
Magazine, for THERMOMARK CARD..., for accommodating all US-materials	5146451	1

THERMOMARK CARD-US-MAG1	5146451	1
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Device marking

UniSheet - stick-on combi labels, unprinted

Can be marked using:



Thermal transfer for sheets and cards

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The unmarked US-EMLF ... combi labels on US ... cards allow you to create custom information signs. A variety of symbols which conform to ISO 7010 are available in the CLIP PROJECT software. The markers offer the following features:

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and inexpensively
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet , with self-adhesive labels, 2-section, lettering field size: 104 x 70 mm	
	white
	yellow
	blue
UniSheet , with self-adhesive labels, 1-section, lettering field size: 104 x 140 mm	
	white
	yellow
	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-EMLF (104X70)	1014294	10
US-EMLF (104X70) YE	1014295	10
US-EMLF (104X70) BU	1014296	10
US-EMLF (104X140)	1014291	10
US-EMLF (104X140) YE	1014292	10
US-EMLF (104X140) BU	1014293	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials	

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1

Device marking

Stick-on device marking



- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example: EML (10X4)R...**
Lettering field size: 10 x 4 mm
Type of packaging: roll

Notes:
The THERMOMARK ROLL-ERH external media hub is required for RL rolls, see under "Printers" on page 36.
For additional label sizes, see the product area on our website at phoenixcontact.net/products



Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications, white



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 150 [°C]
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Labels			
10,000 labels per roll	EML (10X4)R	0815583	1
10,000 labels per roll	EML (10X7)R	0816663	1
2500 labels per roll	EML (15X6)R	0803275	1
2500 labels per roll	EML (15X9)R	0815677	1
2500 labels per roll	EML (16,5X5)R	0816702	1
10,000 labels per roll	EML (16X7)R	0818001	1
2500 labels per roll	EML (17,5X8)R	0816744	1
2500 labels per roll	EML (19X6)R	0816760	1
2500 labels per roll	EML (20X8)R	0816786	1
2500 labels per roll	EML (24X3)R	0830291	1
2500 labels per roll	EML (24X4)R	0800061	1
Labels for thermal transfer printer			
2500 labels per roll	EML (25,4X12,7)R	0816825	1
2500 labels per roll			
2500 labels per roll			
2500 labels per roll			
1000 labels per roll	EML (30X20)R	0816922	1
2500 labels per roll			
1000 labels per roll	EML (36X25)R	0803136	1
2500 labels per roll	EML (38X17)R	0816951	1
2500 labels per roll	EML (40X6)R	0830481	1
1000 labels per roll	EML (40X8)R	0816980	1
1000 labels per roll			
1000 labels per roll	EML (40X25)R	0818027	1
1000 labels per roll	EML (51X25)R	0817028	1
2500 labels per roll			
1000 labels per roll	EML (70X32)R	0817060	1
400 labels per roll	EML (70X50)R	0817099	1
2500 labels per roll	EML (75X10)R	0830485	1
1000 labels per roll	EML (80X20)R	0803138	1
2500 labels per roll	EML (90X5)R	0817109	1
1000 labels per roll	EML (105X23)R	0803137	1
500 labels per roll			
300 labels p. roll	EML (100X73)R	0817125	1
250 labels p. roll	EML (100X90)R	0817154	1



Unmarked or marked according to customer specifications, yellow



Unmarked or marked according to customer specifications, silver



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML (10X7)R YE	0816676	1
EML (15X6) R YE	0819288	1
EML (15X9)R YE	0816045	1
EML (16,5X5)R YE	0816728	1
EML (16X7)R YE	0816731	1
EML (17,5X8)R YE	0816757	1
EML (19X6)R YE	0800107	1
EML (20X7)R YE	0816773	1
EML (20X8)R YE	0816799	1
EML (25,4X12,7)R YE	0816838	1
EML (26,5X17,5)R YE	0816896	1
EML (30X20)R YE	0816935	1
EML (32X25)R YE	0800020	1
EML (40X6)R YE	0830482	1
EML (40X25)R YE	0816977	1
EML (51X25)R YE	0817031	1
EML (50X10)R YE	0830484	1
EML (70X32)R YE	0817073	1
EML (75X10)R YE	0830486	1
EML (100X30)R YE	0801816	1
EML (100X73)R YE	0817138	1

Ordering data

Type	Order No.	Pcs. / Pkt.
EML (15X9)R SR	0816032	1
EML (21,5X21,5)R SR	0816812	1
EML (26,5X7,5)R SR	0816841	1
EML (26,5X12)R SR	0816854	1
EML (26,5X17,5)R SR	0816883	1
EML (26,5X18,5)R SR	0816906	1
EML (26,5X26,5)R SR	0816919	1
EML (40X15)R SR	0815729	1
EML (51X25)R SR	0817002	1
EML (70X32)R SR	0817057	1
EML (70X50)R SR	0817086	1
EML (100X73)R SR	0817112	1
EML (100X90)R SR	0817141	1

Device marking

Stick-on device marking

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications, transparent and white

- EML ... self-adhesive device markers have been specially developed to allow the marking of various types of operating equipment in control, system, and control cabinet engineering applications
- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The EML ... materials are UL-listed
- **Designation example: EML (10X4)R...**
Lettering field size: 10 x 4 mm
Type of packaging: roll

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description
Labels, on large roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
10,000 labels per roll
3000 labels per roll
3000 labels per roll
2500 labels per roll
1000 labels per roll
Labels, round, 17.5 mm diameter
2500 labels per roll
Labels, on large roll
Width: 37 mm, length: 90 m
Width: 100 mm, length: 90 m
Labels, on large roll
20,000 labels per roll
Endless label
Width: 110 mm, length 40 m

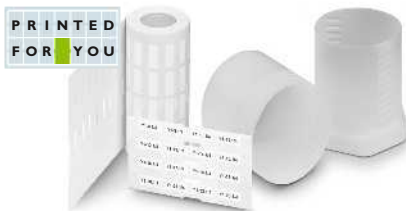
Ordering data

Type	Order No.	Pcs. / Pkt.
EML (16,5X5)RL	0816113	1
EML (19X6,4)RL	0816142	1
EML (25,4X12,7)RL	0816087	1
EML (38,1X19)RL	0816171	1
EML (50,8X25,4)RL	0816184	1
EML (69,8X31,8)RL	0816197	1
EML (D17,5)R	0815774	1
EML (25,4X12,7)R TR	0801841	1
EML (37XE)RL TR	0815716	1
EML (51X12,5)R TR	0815745	1
EML (20X8)RXL	0802762	1
EML (110XE)R	0815596	1





Unmarked or marked according to customer specifications, yellow



Unmarked or marked according to customer specifications, silver



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
EML (16,5X5)RL YE	0816126	1
EML (17,5X8)RL YE	0816139	1
EML (18X6)RL YE	0828460	1
EML (18X7)RL YE	0802733	1
EML (30X20)RL YE	0816168	1
EML (76,2X6,5)RL YE	0816207	1
EML (110XE)R YE	0815606	1

Ordering data

Type	Order No.	Pcs. / Pkt.
EML (101,6X25,4)RL SR	0815790	1
EML (100XE)RL SR	0815787	1
EML (110XE)R SR	0801994	1

Device marking

Stick-on device marking for applications in process engineering



- The EML...-EX self-adhesive device markers have been specifically developed for marking various types of equipment in the Ex area
- The marking requirements in terms of legibility, adhesion, and wipe resistance in potentially explosive areas (ATEX), according to IEC/EN 60079-0, can also be ensured following storage in typical gas atmospheres. Phoenix Contact developed these labels especially for process engineering, which is where these requirements typically arise. These labels meet the requirements for wipe resistance according to DIN EN 61010-1 against aggressive media such as acetone, ethanol, and MEK
- They are only suitable in conjunction with the TM- RIBBON110-EX
- Thanks to the special surface and adhesive, the marker meets the demanding requirements of process engineering
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of marker sizes and colors are available for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- **Designation example:**
EML (10x4)R-EX
Lettering field size: 10 x 4 mm
Type of packaging: roll
- Marking service: Phoenix Contact can custom-mark all EML markers according to your requirements

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

General data

Can be marked using

Material
Temperature range [°C]
Wipe resistance
Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
Labels	
10,000 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
400 labels per roll	white
300 labels p. roll	white
300 labels p. roll	white
250 labels p. roll	white

Type	Order No.	Pcs. / Pkt.
EML (10X4)R-EX	0803251	1
EML (15X9)R-EX	0803253	1
EML (20X8)R-EX	0803254	1
EML (30X20)R-EX	0803255	1
EML (40X25)R-EX	0803256	1
EML (70X50)R-EX	0803257	1
EML (100X40)R-EX	0803258	1
EML (100X73)R-EX	0803259	1
EML (100X90)R-EX	0803260	1

Ink ribbon, length: 300 m, width: 110 mm, color: black

Accessories

Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-EX	0803211	1

Stick-on device marking

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- The EMLP ... self-adhesive markers meet the same standards as the engraved labels
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Primarily used for marking electrical components, devices, and buttons
- **Designation example: EMLP(13x9)R**
Lettering field size :13 x 9 mm
Type of packaging: roll
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyester

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Markers				
500 markers per roll	white	EMLP (13X9)R	0819453	1
500 markers per roll	white	EMLP (17X7)R	0826844	1
500 markers per roll	white	EMLP (17,5X12)R	0819466	1
3000 markers per roll	white	EMLP (17,5X15)R	0802684	1
500 markers per roll	white	EMLP (20X7)R	0819479	1
500 markers per roll	white	EMLP (20X8)R	0819482	1
500 markers per roll	white	EMLP (22X12)R	0819495	1
500 markers per roll	white	EMLP (45X15)R	0801820	1
500 markers per roll	white	EMLP (45X25)R	0802727	1
250 markers per roll	white	EMLP (60X30)R	0819505	1
500 markers per roll	white	EMLP (65X25)R	0802728	1
3000 markers per roll	silver	EMLP (17,5X15)R SR	0802685	1
500 markers per roll	silver	EMLP (27X8)R SR	0819518	1
500 markers per roll	silver	EMLP (27X12,5)R SR	0819521	1
500 markers per roll	silver	EMLP (27X18)R SR	0819534	1
500 markers per roll	silver	EMLP (22X22)R SR	0825528	1
500 markers per roll	silver	EMLP (27X27)R SR	0827467	1
500 markers per roll	silver	EMLP (45X15)R SR	0819547	1
250 markers per roll	silver	EMLP (60X30)R SR	0801729	1

Device marking

Stick-on device marking, continuous

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- The EMLP Ex... self-adhesive continuous markers are equivalent to engraved labels
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Primarily used for marking electrical components, devices, and buttons
- **Designation example:**
EMLP(13x9)R
Lettering field size :13 x 9 mm
Type of packaging: roll
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data

Can be marked using

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.2
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Continuous roll				
Width: 15 mm, length: 20 m	white	EMLP (EX15)R	0802686	1
	silver	EMLP (EX15)R SR	0802687	1
	yellow	EMLP (EX15)R YE	0803276	1
	black	EMLP (EX15)R BK	0803279	1
	blue	EMLP (EX15)R BU	0803277	1
	red	EMLP (EX15)R RD	0803280	1
Width: 30 mm, length: 20 m	white	EMLP (EX30)R	0802688	1
	silver	EMLP (EX30)R SR	0802689	1
	red	EMLP (EX30)R RD	0803436	1

Stick-on device marking, for 24 mm buttons

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- The EMLP 24 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Description	Color
Markers for 24 mm buttons , can be marked with thermal transfer printer	
500 markers per roll	white
500 markers per roll	silver
500 markers per roll	red
500 markers per roll	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMLP 24 (30X12)R	0819550	1
EMLP 24 (30X12)R SR	0819563	1
EMLP 24 (30X12)R RD	0819576	1
EMLP 24 (30X12)R GN	0819589	1

Marking and labeling - MARKING system

Device marking

Stick-on device marking, for 30 mm buttons



- The EMLP 30 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective marking with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects

Notes:

If using THERMOMARK ROLL, use the external ROLL-ERH media hub.



Unmarked or marked according to customer specifications

Technical data

General data

Can be marked using

Material
Temperature range [°C]
Wipe resistance
Components

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.2
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color
Markers for 30 mm buttons , can be marked with thermal transfer printers	
500 markers per roll	white
500 markers per roll	yellow
500 markers per roll	black

Type	Order No.	Pcs. / Pkt.
EMLP 30(45X10)R	0801855	1
EMLP 30(45X10)R YE	0801857	1
EMLP 30(45X10)R BK	0801858	1

Highly flexible PVC stick-on device marking



- Highly flexible, soft PVC label that adapts well to uneven surfaces
- Extremely high-quality appearance
- Outdoor-durable for up to eight years when subject to a temperature range of -40°C to 90°C



Unmarked or marked according to customer specifications

Technical data

General data

Can be marked using

Material
Temperature range [°C]
Wipe resistance

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.2
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)

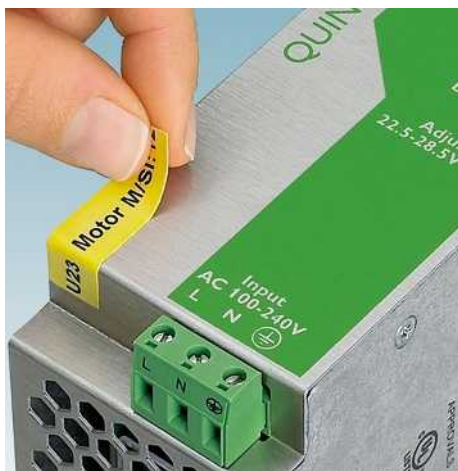
Ordering data

Description	Color
Continuous label , width: 108 mm, length: 48 m	
	white
	yellow
	silver
	transparent

Type	Order No.	Pcs. / Pkt.
EMLF (108XE)R	0800549	1
EMLF (108XE)R YE	0800550	1
EMLF (108XE)R SR	0800551	1
EMLF (108XE)R TR	0800552	1

Highly flexible stick-on textile foil

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- Textile foil with extremely low restoring forces
- Enables labels to be stuck over edges and curves
- Halogen-free material
- Outdoor-durable for one to two years when subject to a temperature range of -40°C to +150°C

General data

Can be marked using

Material

Temperature range

[°C]

Wipe resistance

Components

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

PA

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Fabric label				
10,000 labels per roll	white	EMLC (5,5X20)R	0817617	1
5000 labels per roll	white	EMLC (5,5X40)R	0817620	1
2500 labels per roll	yellow	EMLC (15X9)R YE	0800236	1
2500 labels per roll	yellow	EMLC (17,5X8)R YE	0800237	1
2500 labels per roll	white	EMLC (20X8)R	0815680	1
2500 labels per roll	yellow	EMLC (20X8)R YE	0800235	1
10,000 labels per roll	yellow	EMLC (20X8)RL YE	0815800	1
2500 labels per roll	yellow	EMLC (25X8)R YE	0800240	1
2500 labels per roll	yellow	EMLC (25,4X12,7)R YE	0800238	1
1000 labels per roll	yellow	EMLC (38X17)R YE	0800557	1
1000 labels per roll	white	EMLC (40X8)R	0800554	1
1000 labels per roll	yellow	EMLC (40X8)R YE	0800555	1
750 labels per roll	yellow	EMLC (51X25)R YE	0800558	1

Device marking

Device marking for sticking onto rough or structured surfaces



The EML–HA ... self-adhesive device markers have excellent adhesive properties on rough, structured, and low-energy surfaces, thanks to their special adhesive.

- Precise printing quality and good adhesive properties
- If high-quality ink ribbons are used, the marking is resistant to solvents, making it suitable for use even under harsh industrial conditions
- A wide range of different marker sizes are available in white and silver for custom designs
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all EML–HA ... labels according to your requirements
- The marking material is UL listed

– Designation example:

EML-HA (15x9)R

Lettering field size: 15 x 9 mm

Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

PRINTED
FOR YOU



Unmarked or marked according to customer specifications



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Free from silicone and halogen

Ordering data

General data		Ordering data		
Can be marked using		Type	Order No.	Pcs. / Pkt.
Material				
Temperature range	[°C]			
Wipe resistance				
Components				
Description	Color			
Label, for rough plastic surfaces, highly adhesive, white				
2500 labels per roll	white	EML-HA (15X9)R	0830600	1
2500 labels per roll	white	EML-HA (19X6)R	0830601	1
2500 labels per roll	white	EML-HA (20X20)R	0830602	1
2500 labels per roll	white	EML-HA (26,5X12)R	0830603	1
2500 labels per roll	white	EML-HA (40X8)R	0830604	1
1000 labels per roll	white	EML-HA (40X15)R	0830605	1
1000 labels per roll	white	EML-HA (51X25)R	0830729	1
1000 labels per roll	white	EML-HA (60X30)R	0830606	1
1000 labels per roll	white	EML-HA (70X32)R	0830607	1
1000 labels per roll	white	EML-HA (70X50)R	0830730	1
250 labels p. roll	white	EML-HA (70X150)R	0830608	1
1000 labels per roll	white	EML-HA (76X51)R	0830609	1
1000 labels per roll	white	EML-HA (85X32)R	0830610	1
300 labels p. roll	white	EML-HA (100X73)R	0830731	1
250 labels p. roll	white	EML-HA (100X90)R	0830732	1
Label, for rough plastic surfaces, highly adhesive, silver				
2500 labels per roll	silver	EML-HA (15X9)R SR	0830611	1
2500 labels per roll	silver	EML-HA (19X6)R SR	0830612	1
2500 labels per roll	silver	EML-HA (20X20)R SR	0830613	1
2500 labels per roll	silver	EML-HA (26,5X12)R SR	0830614	1
2500 labels per roll	silver	EML-HA (40X8)R SR	0830615	1
1000 labels per roll	silver	EML-HA (40X15)R SR	0830616	1
1000 labels per roll	silver	EML-HA (51X25)R SR	0830733	1
1000 labels per roll	silver	EML-HA (60X30)R SR	0830617	1
1000 labels per roll	silver	EML-HA (70X32)R SR	0830618	1
1000 labels per roll	silver	EML-HA (70X50)R SR	0830734	1
250 labels p. roll	silver	EML-HA (70X150)R SR	0830619	1
1000 labels per roll	silver	EML-HA (76X51)R SR	0830620	1
1000 labels per roll	silver	EML-HA (85X32)R SR	0830621	1
300 labels p. roll	silver	EML-HA (100X73)R SR	0830735	1
250 labels p. roll	silver	EML-HA (100X90)R SR	0830736	1

Stick-on device marking, for high-temperature applications



Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- White polyimide labels with high level of temperature resistance
- Continuous temperature range of -40°C to +180°C, up to +300°C temporarily, for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The marking material is UL listed
- Protection against tampering: the labels cannot be removed without disintegrating
- **Designation example:**
EML-HT (8x8)R
 Lettering field size: 8 x 8 mm
 Type of packaging: roll
- Single-web large roll with 8000 or 10,000 labels (see figure below)

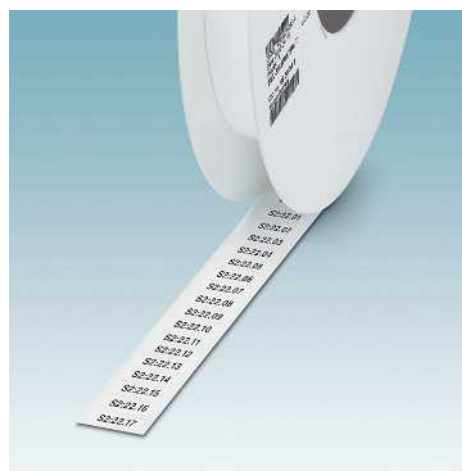
Notes:
 The THERMOMARK-RIBBON 110-EML-HT ink ribbon is required for marking EM-LHT... high-temperature labels, see under "Printers", page 37.
 If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.
 EML-HT...RL-T cannot be marked with the THERMOMARK S1.1.

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
High-temperature labels	
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll, round, 12 mm diameter	white
High-temperature labels, on large roll	
10,000 labels per roll	white
10,000 labels per roll	white
8000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white
8000 labels per roll	white
10,000 labels per roll	white
10,000 labels per roll	white

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Acrylate	
-40 ... 180	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EML-HT (8X8)R	0800340	1	
EML-HT (15X6)R	0830644	1	
EML-HT (15X15)R	0800341	1	
EML-HT (20X7)R	0830645	1	
EML-HT (24X4)R	0830646	1	
EML-HT (25X8)R	0830647	1	
EML-HT (25,4X12,7)R	0830648	1	
EML-HT (32X10)R	0830649	1	
EML-HT (35X6,5)R	0830650	1	
EML-HT (40X15)R	0800339	1	
EML-HT (45X5)R	0800337	1	
EML-HT (50X10)R	0800338	1	
EML-HT (D12)R	0801376	1	
EML-HT (8X8)RL-T	0830651	1	
EML-HT (15X6)RL-T	0830652	1	
EML-HT (15X15)RL-T	0830653	1	
EML-HT (20X7)RL-T	0830654	1	
EML-HT (24X4)RL-T	0830655	1	
EML-HT (25X8)RL-T	0830656	1	
EML-HT (25,4X12,7)RL-T	0830657	1	
EML-HT (32X10)RL-T	0830658	1	
EML-HT (35X6,5)RL-T	0830659	1	
EML-HT (40X15)RL-T	0830660	1	
EML-HT (45X5)RL-T	0830661	1	
EML-HT (50X10)RL-T	0830662	1	



Ink ribbon, specifically for high-temperature labels, EML-HT...	
black	

Accessories		
THERMOMARK-RIBBON 110-EML-HT	0800342	1

Device marking

Stick-on device marking, for ESD applications



- Safe marking for sensitive components on PCBs
- Static dissipative adhesive: prevents transmission of voltage and protects the component against electrostatic discharge
- Marking service: Phoenix Contact can custom-mark all EML-ESD ... markers according to your requirements
- **Designation example:**
EML-ESD (8x8)R
Lettering field size: 8 x 8 mm
Type of packaging: roll

Notes:
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.
EML-ESD... RL-T cannot be marked with the THERMOMARK S1.1.

Can be marked using:



Thermal transfer for rolls

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Unmarked or marked according to customer specifications



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
Polyester
Temperature range [-40 ... 150 [°C]
Wipe resistance
Components
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Device marking, roll				
4000 labels per roll	white	EML-ESD (8X8)R	0830564	1
4000 labels per roll	white	EML-ESD (15X6)R	0830565	1
4000 labels per roll	white	EML-ESD (15X15)R	0830566	1
4000 labels per roll	white	EML-ESD (20X7)R	0830567	1
4000 labels per roll	white	EML-ESD (24X4)R	0830568	1
4000 labels per roll	white	EML-ESD (25X8)R	0830569	1
2500 labels per roll	white	EML-ESD (25,4X12,7)R	0830570	1
2500 labels per roll	white	EML-ESD (32X10)R	0830571	1
2500 labels per roll	white	EML-ESD (35X6,5)R	0830572	1
2500 labels per roll	white	EML-ESD (40X15)R	0830573	1
2500 labels per roll	white	EML-ESD (45X5)R	0830574	1
1000 labels per roll	white	EML-ESD (50X10)R	0830575	1
Device marking, large roll				
10,000 labels per roll	white	EML-ESD (8X8)RL-T	0830576	1
10,000 labels per roll	white	EML-ESD (15X6)RL-T	0830577	1
8000 labels per roll	white	EML-ESD (15X15)RL-T	0830578	1
10,000 labels per roll	white	EML-ESD (20X7)RL-T	0830579	1
10,000 labels per roll	white	EML-ESD (24X4)RL-T	0830580	1
10,000 labels per roll	white	EML-ESD (25X8)RL-T	0830581	1
10,000 labels per roll	white	EML-ESD (25,4X12,7)RL-T	0830582	1
10,000 labels per roll	white	EML-ESD (32X10)RL-T	0830583	1
10,000 labels per roll	white	EML-ESD (35X6,5)RL-T	0830584	1
8000 labels per roll	white	EML-ESD (40X15)RL-T	0830585	1
10,000 labels per roll	white	EML-ESD (45X5)RL-T	0830586	1
10,000 labels per roll	white	EML-ESD (50X10)RL-T	0830587	1



Stick-on device marking, removable

Can be marked using:



Thermal transfer for rolls

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Unmarked or marked according to customer specifications

- Particularly suitable for temporary marking
- The labels adhere well and reliably, and can be removed easily and residue-free if required
- The labels cannot be reused following removal
- Marking service: Phoenix Contact can custom-mark all EML-RM ... markers according to your requirements
- **Designation example:**
EML-RM (8x8)R
Lettering field size: 8 x 8 mm
Type of packaging: roll

Notes:
If large rolls are processed with the THERMOMARK ROLL, the external THERMOMARK ROLL-ERH media hub must be used.
EML-RM...RL-T cannot be marked with the THERMOMARK S1.1.

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1	
Polyester	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
Labels, removable	
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
4000 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
2500 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
Labels, on large roll, removable	
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white
1000 labels per roll	white

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EML-RM (8X8)R	0830528	1	
EML-RM (15X6)R	0830529	1	
EML-RM (15X15)R	0830530	1	
EML-RM (20X7)R	0830531	1	
EML-RM (24X4)R	0830532	1	
EML-RM (25X8)R	0830533	1	
EML-RM (25,4X12,7)R	0830534	1	
EML-RM (32X10)R	0830535	1	
EML-RM (35X6,5)R	0830536	1	
EML-RM (40X15)R	0830537	1	
EML-RM (45X5)R	0830538	1	
EML-RM (50X10)R	0830539	1	
EML-RM (70X50)R	0803186	1	
EML-RM (8X8)RL-T	0830540	1	
EML-RM (15X6)RL-T	0830541	1	
EML-RM (15X15)RL-T	0830542	1	
EML-RM (20X7)RL-T	0830543	1	
EML-RM (24X4)RL-T	0830544	1	
EML-RM (25X8)RL-T	0830545	1	
EML-RM (25,4X12,7)RL-T	0830546	1	
EML-RM (32X10)RL-T	0830547	1	
EML-RM (35X6,5)RL-T	0830548	1	
EML-RM (40X15)RL-T	0830549	1	
EML-RM (45X5)RL-T	0830550	1	
EML-RM (50X10)RL-T	0830551	1	



Ink ribbon, length: 300 m, width: 110 mm	black
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Accessories		
THERMOMARK-RIBBON 110	5145384	1

Device marking

Stick-on device marking, with anti-tamper protection



- Tamper-proof label, can be used as a rating plate or seal, for example
- When peeled off, part of the metallic layer comes away, leaving behind a triangular pattern on both the label and the surface
- The safety function is reliable up to 80°C
- Marking service: Phoenix Contact can custom-mark all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed
- **Designation example: EMLS (15x9)R SR**
- Lettering field size: 15 x 9 mm
- Type of packaging: roll

Can be marked using:



Thermal transfer for rolls

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Unmarked or marked according to customer specifications



Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 •
THERMOMARK X1.2
Polyester
Temperature range -40 ... 150 [°C]
Wipe resistance
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Safety labels				
2500 labels per roll	silver	EMLS (15X9)R SR	0800347	1
2500 labels per roll	silver	EMLS (19X6)R SR	0800343	1
1000 labels per roll	silver	EMLS (20X20)R SR	0800344	1
1000 labels per roll	silver	EMLS (26,5X12)R SR	0800353	1
1000 labels per roll	silver	EMLS (38,1X19)R SR	0800354	1
1000 labels per roll	silver	EMLS (40X8)R SR	0800348	1
1000 labels per roll	silver	EMLS (40X15)R SR	0800345	1
500 labels per roll	silver	EMLS (60X30)R SR	0800355	1
500 labels per roll	silver	EMLS (70X32)R SR	0800346	1
100 labels per roll	silver	EMLS (70X150)R SR	0800351	1
250 labels p. roll	silver	EMLS (76X51)R SR	0800350	1
250 labels p. roll	silver	EMLS (85X32)R SR	0800356	1

new

Device marking for rotary switches from Phoenix Contact, for sticking on or snapping in



- EML-RS for marking rotary switches from Phoenix Contact
- For either sticking on or snapping in with transparent EMPPR (45,8x45,8) cover
- Additional protection under extreme ambient conditions with the transparent EMPPR (45,8x45,8) cover

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Unmarked or marked according to customer specifications

Technical data

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.2
 Polyester
 -40 ... 150
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Description	Color
Label , roll, unmarked, can be marked with: THERMOMARK ROLL, THERMOMARK X, THERMOMARK S1.1, mounting type: adhered/inserted, 250 labels p. roll	white silver

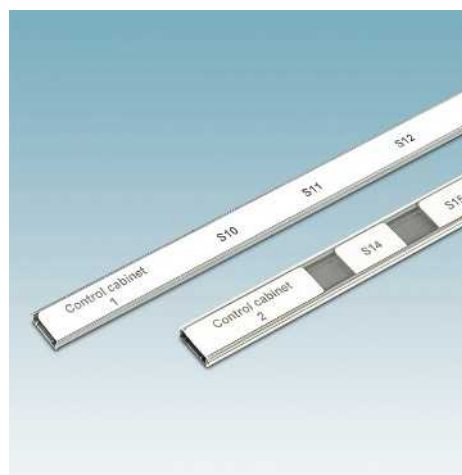
Type	Order No.	Pcs. / Pkt.
EML-RS (45,7X45,7)R	0803387	1
EML-RS (45,7X45,7)R SR	0803187	1

Accessories

Snap-in shock protection, for RS20-... rotary switches, transparent

EMPPR (45,8X45,8)	0803389	25
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Notes:
 For corresponding CARRIER-EMP... carrier profiles, see phoenixcontact.net/products



- The EMT marking range includes markers for all products with tall and flat marker grooves
- Marking service: Phoenix Contact can custom-mark all EMT markers according to your requirements

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Unmarked or marked according to customer specifications

Technical data

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2 • THERMOMARK S1.1
 PVC
 -30 ... 80
 DIN EN 61010-1 (VDE 0411-1)
 Free from silicone and halogen

Ordering data

Description	Color
Insert strips , unprinted, 1 roll = 50 m, continuous, strip height: 15 mm	white

Type	Order No.	Pcs. / Pkt.
EMT (EX15)R	0830671	1

Device marking

Snap-in device makers for Axioline systems from Phoenix Contact



Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

- EMT ... insert strips are available in different sizes for marking the Axioline modules from Phoenix Contact
- EMT (62...)R insert strips are available in different sizes for marking the Inline modules from Phoenix Contact
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support marking can be found starting on page 292

General data

Can be marked using

Material
Temperature range
Wipe resistance
Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips for Axioline modules				
500 labels per roll, lettering field size: 35 x 28 mm	white	EMT (35X28)R	0801602	1
500 labels per roll, lettering field size: 35 x 28 mm	yellow	EMT (35X28)R YE	0801603	1
500 labels per roll, lettering field size: 35 x 46 mm	white	EMT (35X46)R	0801604	1
500 labels per roll, lettering field size: 35 x 46 mm	yellow	EMT (35X46)R YE	0801605	1
Insert strips for Inline modules, 500 labels per roll, lettering field size: 62 x 10 mm				
500 labels per roll, lettering field size: 62 x 10 mm	white	EMT (62X10)R	0800057	1
500 labels per roll, lettering field size: 62 x 10 mm	yellow	EMT (62X10)R YE	0800477	1
250 labels per roll, lettering field size: 62 x 46 mm	white	EMT (62X46)R	0800059	1
250 labels per roll, lettering field size: 62 x 46 mm	yellow	EMT (62X46)R YE	0800478	1

Device markers for Siemens ET 200SP controllers

- EMT ... insert strips are available for marking Siemens controllers
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support marking can be found starting on page 292

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

Notes:
For additional information on the use of Siemens devices, see the product area on our website at phoenixcontact.net/products.

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL • THERMOMARK ROLL X1 • THERMOMARK X1.1 • THERMOMARK X1.2	
Polyester	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
Insert strips	
500 labels per roll, lettering field size: 31 x 12.5 mm	white
500 labels per roll, lettering field size: 31 x 12.5 mm	yellow
500 labels per roll, lettering field size: 31 x 12.5 mm	gray
500 labels per roll, lettering field size: 50 x 26 mm	white
500 labels per roll, lettering field size: 50 x 26 mm	turquoise
500 labels per roll, lettering field size: 50 x 26 mm	yellow
500 labels per roll, lettering field size: 103 x 17 mm	white
500 labels per roll, lettering field size: 103 x 17 mm	turquoise
500 labels per roll, lettering field size: 103 x 17 mm	yellow
500 labels per roll, lettering field size: 103 x 23 mm	white
500 labels per roll, lettering field size: 103 x 23 mm	yellow
500 labels per roll, lettering field size: 103 x 23 mm	turquoise
1 roll = 30 m, lettering field size: continuous x 14 mm	white
1 roll = 30 m, lettering field size: continuous x 14 mm	turquoise
1 roll = 30 m, lettering field size: continuous x 14 mm	yellow
500 labels per roll, lettering field size: 23 x 109 mm	white
500 labels per roll, lettering field size: 23 x 109 mm	turquoise
500 labels per roll, lettering field size: 23 x 109 mm	yellow
500 labels per roll, lettering field size: 23 x 109 mm	gray
Insert strips with two lettering field sizes per roll, with 250 of each size measuring:	
50 x 12.8 mm and 27.5 x 12.8 mm	white
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	yellow
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	turquoise
with 250 each of 50 x 12.8 mm and 27.5 x 12.8 mm	red

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMT (31X12,5)R	0800008	1
EMT (31X12,5)R YE	0802764	1
EMT (31X12,5)R GY	0801612	1
EMT (50X26)R	0800052	1
EMT (50X26)R TQ	0800053	1
EMT (50X26)R YE	0800054	1
EMT (103X17)R	0800039	1
EMT (103X17)R TQ	0800041	1
EMT (103X17)R YE	0800436	1
EMT (103X23)R	0800040	1
EMT (103X23)R YE	0800437	1
EMT (103X23)R TQ	0800042	1
EMT (EX14)R	0803461	1
EMT (EX14)R TQ	0803462	1
EMT (EX14)R YE	0803463	1
EMT (23X109)R	0803457	1
EMT (23X109)R TQ	0803458	1
EMT (23X109)R YE	0803459	1
EMT (23X109)R GY	0803460	1
EMT (50/28X13)R	0800049	1
EMT (50/28X13)R YE	0800438	1
EMT (50/28X13)R TQ	0800050	1
EMT (50/28X13)R RD	0832082	1

Device marking

Stick-on device marking

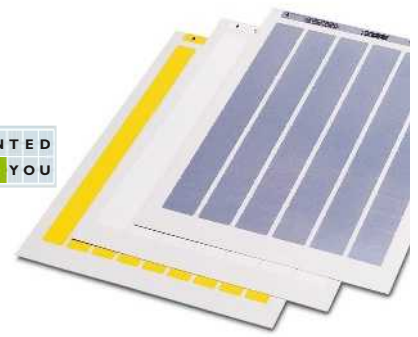


Can be marked using:



Office laser printing

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Unmarked or marked according to customer specifications

- These labels have been specially developed for laser printers
- Can be printed on all commercially available laser printers
- The unperforated SK U ... sheets are available for custom label designs
- Marking service: Phoenix Contact can custom-mark all BMKL ... markers in accordance with your requirements

Notes:

Print image may vary depending on laser printer

General data

Can be marked using
Material
Temperature range [°C]
Wipe resistance
Components

Technical data

- Office printing systems
Polyester
-20 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

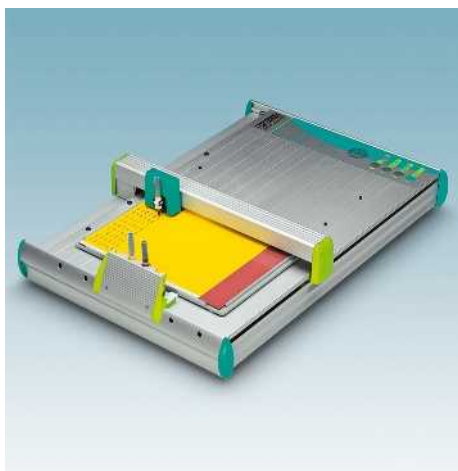
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Sheet of labels for laser printer, DIN A4				
1 sheet = 273 labels	white	BMKL 12X12 WH	5032361	10
1 sheet = 290 labels	white	BMKL 15X 9 WH	0803663	10
1 sheet = 396 labels	white	BMKL 18X 6 WH	5032293	10
1 sheet = 288 labels	white	BMKL 18X 8 WH	5032329	10
1 sheet = 224 labels	white	BMKL 20X 8 WH	5032280	10
1 sheet = 224 labels	white	BMKL 25X 8 WH	5032332	10
1 sheet = 147 labels	white	BMKL 25X12 WH	5032374	10
1 sheet = 228 labels	white	BMKL 26,8X6,8 WH	0807106	10
1 sheet = 63 labels	white	BMKL 50X12 WH	5032387	10
1 sheet = 45 labels	white	BMKL 64X16 WH	0821807	2
1 sheet = 21 labels	white	BMKL 64X34 WH	5032400	10
1 sheet = 290 labels	yellow	BMKL 15X 9 YE	5032497	10
1 sheet = 405 labels	yellow	BMKL 16X 6 YE	0807096	10
1 sheet = 288 labels	yellow	BMKL 18X 8 YE	5032170	10
1 sheet = 168 labels	yellow	BMKL 19X11 YE	0800705	10
1 sheet = 224 labels	yellow	BMKL 20X 8 YE	5032138	10
1 sheet = 162 labels	yellow	BMKL 26X10 YE	0811516	10
1 sheet = 45 labels	yellow	BMKL 64X16 YE	0821810	2
1 sheet = 192 labels	silver	BMKL 27X 8 SR	0803702	10
1 sheet = 126 labels	silver	BMKL 27X12,5 SR	0803676	10
1 sheet = 84 labels	silver	BMKL 27X18 SR	0803689	10
1 sheet = 54 labels	silver	BMKL 27X27 SR	0803692	10
1 sheet = 360 labels	orange	BMKL 18X 6,5 OG	5036147	10
Marking sheet, unperforated, self-adhesive, DIN A4 format				
	white	SK U WH:UNGESTANZT	0800129	10
	yellow	SK U YE:UNGESTANZT	0800132	10
	silver	SK U SR:UNGESTANZT	0800145	10



Stick-on device marking

Can be marked using:



Plotter



Unmarked or marked according to customer specifications

- Self-adhesive labels for marking by hand or with a plotter
- Secure adhesion even on curved or uneven surfaces as well as at corners
- Available in various dimensions
- Marking service: Phoenix Contact can custom-mark all BMK ... markers in accordance with your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Components	

Technical data	
Can be marked using	CMS-P1-PLOTTER
Material	Polyester foil
Temperature range	-40 ... 80
Components	Silicone-free

Description	Color
Label sheet	
1 sheet = 270 labels	white
1 sheet = 324 labels	yellow
1 sheet = 198 labels	yellow
1 sheet = 270 labels	yellow
1 sheet = 88 labels	yellow

Ordering data			
Type	Order No.	Pcs. / Pkt.	
BMK 20X 8 WH	0805470	10	
BMK 15X 9 YE	5031605	10	
BMK 19X11 YE	5031582	10	
BMK 20X 8 YE	5031388	10	
BMK 38X11 YE	5031676	10	

Accessories	
Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4	

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PAD	5144819	1

Device marking

Stick-on device marking, can be engraved or marked with writing



- The label sheet is made up of prefabricated, individual self-adhesive labels
- The adhesive foil used ensures good adhesive properties, even on uneven surfaces
- Can be easily marked using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- Two-layer material
- Marking service: Phoenix Contact can custom-mark all GPE ... markers in accordance with your requirements

Notes:
Matching magazines to accommodate the label sheets, see page 44.

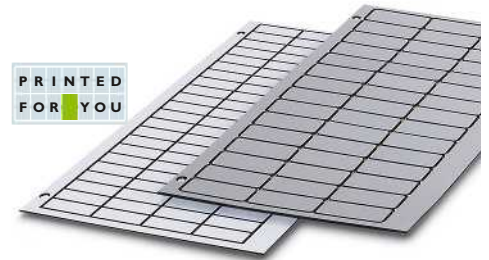
Can be marked using:



Engraving



Plotter



Unmarked or marked according to customer specifications

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
P1 ENGRAVING UNIT • CMS-P1-PLOTTER	
TRANSPLY-ABS	
-20 ... 85	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
Plastic label sheet , self-adhesive double-layer plastic labels, material thickness: 0.8 mm, square corners	
1 sheet = 120 labels	white
1 sheet = 75 labels	white
1 sheet = 100 labels	white
1 sheet = 88 labels	white
1 sheet = 60 labels	white
1 sheet = 9 labels	white
1 sheet = 9 labels	white
1 sheet = 21 labels	red/white
1 sheet = 5 labels	yellow
1 sheet = 30 labels	silver
Plastic label sheet , self-adhesive double-layer plastic labels, material thickness: 0.8 mm, with rounded corners, radius: 2 mm	
1 sheet = 66 labels	white
1 sheet = 30 labels	white
1 sheet = 26 labels	white
1 sheet = 21 labels	white
1 sheet = 9 labels	white
1 sheet = 32 labels	silver
1 sheet = 66 labels	silver
1 sheet = 42 labels	silver
1 sheet = 30 labels	silver
1 sheet = 18 labels	silver
1 sheet = 26 labels	silver
1 sheet = 21 labels	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
GPE 13X 9 WH	0806932	10
GPE 17,5X12 WH	0806916	10
GPE 20X 7 WH	0806990	10
GPE 20X 8 WH	0806945	10
GPE 22X12 WH	0806929	10
GPE 52X26 WH	0806958	10
GPE 60X30 WH	0806961	10
GPE 60X12 RD-WH	0824202	10
GPE 70X32 YE	0824215	10
GPE 28X17,5 SR	0807889	10
Plastic label sheet , self-adhesive double-layer plastic labels, material thickness: 0.8 mm, with rounded corners, radius: 2 mm		
GPE 27X 8 WH/R	0815198	10
GPE 27X18 WH/R	0815208	10
GPE 45X14 WH/R	0815282	10
GPE 60X12 WH/R	0807630	10
GPE 60X30 WH/R	0815292	10
GPE 22X22 SR/R	0806628	10
GPE 27X 8 SR/R	0806877	10
GPE 27X12,5 SR/R	0806880	10
GPE 27X18 SR/R	0806893	10
GPE 27X27 SR/R	0806903	10
GPE 45X14 SR/R	0807009	10
GPE 60X12 SR/R	0806631	10



Stick-on device marking, can be engraved or marked with writing

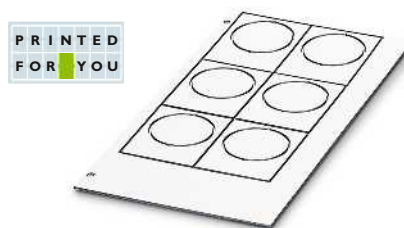
Can be marked using:



Engraving



Plotter



Unmarked or marked according to customer specifications

- High level of resistance to chemical and mechanical effects
- High-quality appearance
- Can be easily marked using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- For marking components, devices, and buttons
- Marking service: Phoenix Contact can custom-mark all EMLP ... markers in accordance with your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
P1 ENGRAVING UNIT • CMS-P1-PLOTTER	
TRANSPLY-ABS	
-20 ... 85	
DIN EN 61010-1 (VDE 0411-1)	
Free from silicone and halogen	

Description	Color
Plastic label sheet , with a hole for 24-mm-Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver
Plastic label sheet , with a hole for 32-mm-Ø pushbutton, self-adhesive double-layer plastic labels, material thickness: 0.8 mm	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMLP 24 (30X12)	0822301	1
EMLP 24 (30X12) BK	0822314	1
EMLP 24 (30X12) SR	0822330	1
EMLP 32 (38X14)	0822291	1
EMLP 32 (38X14) BK	0822327	1
EMLP 32 (38X14) SR	0822343	1

Accessories	
Magazine, to hold 1 GPE label sheet	

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/GPE ENGRAVING	5145711	1

Marking and labeling - MARKING system

Device marking

Marker carrier



- The CARRIER-EMP ... marker carriers are used in conjunction with the UC-EMP ... / US-EMP ... and EMP-AL ... snap-in labels
- They are used to clearly identify devices and control cabinets
- They can be assembled using screws or rivets



For snap-in labels

General data

Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

PA
V2
-40 ... 105
Free from silicone and halogen

Technical data

Ordering data

Description	Color
Marker carrier, for UC-EMP ... / US-EMP ... / EMP-AL ... snap-in labels	
Marker size: 17 x 15 mm	black
Marker size: 27 x 15 mm	black
Marker size: 49 x 15 mm	black
Marker size: 60 x 15 mm	black
Marker size: 60 x 30 mm	black
Marker size: 85 x 54 mm	black

Type	Order No.	Pcs. / Pkt.
CARRIER-EMP (17X15)	0827450	80
CARRIER-EMP (27X15)	0827451	80
CARRIER-EMP (49X15)	0827452	40
CARRIER-EMP (60X15)	0827453	40
CARRIER-EMP (60X30)	0827454	30
CARRIER-EMP (85,6X54)	0829365	10

Marker carriers, can be marked using snap-in markers for control devices



- Snap-in UC-/US-EMP ... and EMP-AL ... labels are available for marking CARRIER-EMP 22 ... marker carriers
- Can be used for all buttons and switches with 22 mm diameter



For buttons and switches 22 mm in diameter

General data

Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

PA
V2
-40 ... 105
Free from silicone and halogen

Technical data

Ordering data

Description	Color
Marker carrier, for UC-EM ... / US-EMP ... / EMP-AL ... snap-in labels	
Marker size: 27 x 8 mm	black
Marker size: 27 x 12.5 mm	black
Marker size: 27 x 15 mm	black
Marker size: 27 x 18 mm	black
Marker size: 27 x 27 mm	black

Type	Order No.	Pcs. / Pkt.
CARRIER-EMP 22 (27X8)	0827445	50
CARRIER-EMP 22 (27X12,5)	0827446	50
CARRIER-EMP 22 (27X15)	0827447	50
CARRIER-EMP 22 (27X18)	0827448	50
CARRIER-EMP 22 (27X27)	0827449	50

Marker carriers, can be marked using control device labels



- Can be used for all buttons and switches with 22 mm diameter
- The large marking areas on the CARRIER-EMLP can be custom-marked with EML ... thermal transfer labels and UC-EMLP ... / US-EMLP ... and EMLP-AL ... labels
- EMLPR ... transparent adhesive protective foil can be used for additional protection of the label surfaces



For buttons and switches 22 mm in diameter

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Free from silicone and halogen
Button diameter	22 [mm]

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marker carrier , for buttons and switches with a 22 mm diameter, can be marked with self-adhesive labels EML ..., UC-EMLP ... / US-EMLP ... and EMLP-AL ...				
Marker size: 27 x 8 mm	black	CARRIER-EMLP 22 (27X8)	0828984	50
Marker size: 27 x 12.5 mm	black	CARRIER-EMLP 22 (27X12,5)	0828985	50
Marker size: 27 x 15 mm	black	CARRIER-EMLP 22 (27X15)	0828986	50
Marker size: 27 x 18 mm	black	CARRIER-EMLP 22 (27X18)	0828987	50
Marker size: 27 x 27 mm	black	CARRIER-EMLP 22 (27X27)	0828988	50

Transparent stick-on or snap-in cover



- Stuck or snapped onto marked CARRIER ... to protect the labels
- Extremely thick, yet flexible and transparent shock protection
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use



Shock protection

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Shock protection foil , designed for sticking into CARRIER-EMLP ...				
51 labels per sheet	transparent	EMLPR (26,5X14,5)	0800546	10
42 labels per sheet	transparent	EMLPR (26,5X17,5)	0800360	10
30 labels per sheet	transparent	EMLPR (26,5X26,5)	0800361	10
14 labels per sheet	transparent	EMLPR (30X40)	0800359	10
6 labels per sheet	transparent	EMLPR (80X42)	0800357	10
4 labels per sheet	transparent	EMLPR (80X60)	0800358	10
9 labels per sheet	transparent	EMLPR (100X30)	0800362	10
Shock protection , designed for snapping into CARRIER-EMP ...				
	transparent	EMPPR (27X15)	0829535	50
	transparent	EMPPR (27X18)	0829536	50

Marking and labeling - MARKING system

Device marking

Marking profiles

- Self-adhesive marker carriers, available by the meter for shortening to meet individual requirements
- Powerful adhesion and optimum grip on standard device surfaces
- The P-SS-ZB 100 is particularly suitable for accommodating SS-ZB, UC-EM (20X9), UCT-EM (20X9)
- The P-ZB METER can accommodate marking material for the tall and flat marker grooves found on Phoenix Contact modular terminal blocks

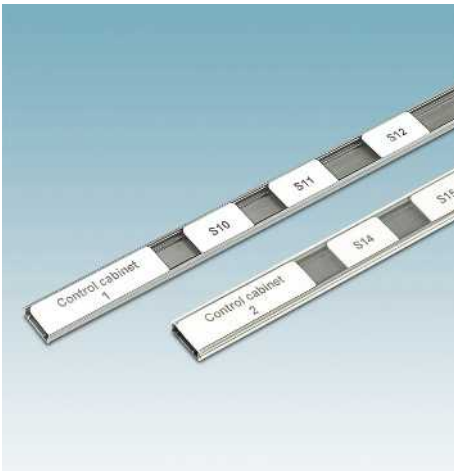


For self-adhesion

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-15 ... 80 [°C]
Description	Color
Profile , self-adhesive, for accommodating SS-ZB labels, UC-EM (20X9), UCT-EM (20X9), length: 1000 mm	gray
Profile , self-adhesive, designed to accommodate UC-TM ..., UCT-TM ..., ZB ..., length: 1 m	gray

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
P-SS-ZB 100	1013737	10
P-ZB METER	1051854	1

Marking profiles



- The CARRIER-EMP ... marker carriers can be individually equipped with UC-EMP ... / US-EMP ... / EMT ... and EMP-AL ... device markers
- For marking devices
- For marking assemblies
- For marking control and switchgear



Designed to be stuck on or for screwing/riveting

General data	
Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Free from silicone and halogen
Description	Color
Profile , for screwing or riveting, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL material with a height of 15 mm	gray
Profile , self-adhesive, 1000 mm long, for accommodating UC-... / US-... / EMT ... and EMP-AL ... material with a height of 15 mm	transparent
CARRIER cover , 1000 mm long	transparent

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CARRIER-EMP (1000X15) GY	0829366	25
CARRIER-EMP (1000X15) TR	0829530	25
CARRIER/L-EMP (1000X15) GY	0829559	25
CARRIER/L-EMP (1000X15) TR	0829560	25
CARRIER-EMP (1000X15) COVER	0829520	25

Marker carrier



- Self-adhesive marker carriers for marking devices and components
- Powerful adhesion and optimum grip on standard device surfaces
- These carrier materials can be fitted, e.g., with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT



For insert strips

General data

Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 60 [°C]
Components	Silicone-free

Technical data

Description	Color
-------------	-------

Component marking label, self-adhesive, can be marked with UC-WMT ..., US-WMT ..., EMT ..., and UCT-WMT

Lettering field size: 15 x 4 mm transparent
 Lettering field size: 30 x 4 mm transparent

UniCard, with insert strips for PATG and PATO marking collars, for lettering field size 15 x 4 mm, 32-section, 8 individual labels per strip

white	UC-WMT (15X4)	0819398	10
yellow	UC-WMT (15X4) YE	0819408	10
white	UC-WMT (30X4)	0819437	10
yellow	UC-WMT (30X4) YE	0819440	10

UniCard, with insert strips for PATG and PATO marking collars, with lettering field size 15 x 4 mm, 50-section

white	UCT-WMT (15X4)	0801446	10
yellow	UCT-WMT (15X4) YE	0801447	10
white	UCT-WMT (30X4)	0801422	10
yellow	UCT-WMT (30X4) YE	0801423	10

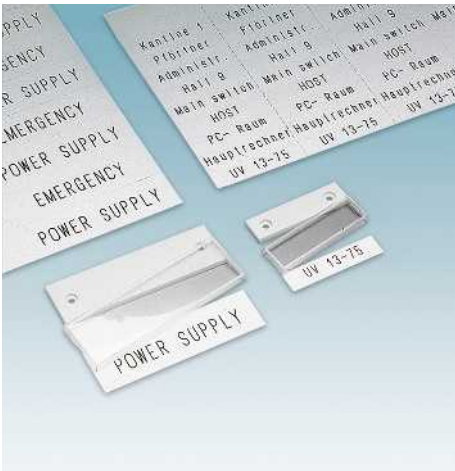
Ordering data

Type	Order No.	Pcs. / Pkt.
PAB-SK 15	1013287	500
PAB-SK 30	1013290	200

Device marking

Marker carriers with cover

Can be marked using:



Plotter



For screw or rivet fixing

- Control cabinet markers consisting of a transparent cap and a base carrier
- The base carrier features two fixing holes so that it can be screwed on
- Once marked, the insert label is inserted in the cap and this is then snapped onto the base carrier
- The marking is protected against external influences
- The ES-SSMK ... insert strips can be marked using the CMS-P1-PLOTTER and the CMS-P1-PAD magazine

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Drill hole spacing	[mm]
Hole diameter	[mm]

Technical data	
CMS-P1-PLOTTER	
PC	
V2	
-40 ... 115	
Free from silicone and halogen	
40	
3.5	

Description	Color
Control cabinet marker , two mounting holes M3	
Size: 60 x 18 mm, lettering field: 56 x 14 mm, incl. 1 x ES-SSMK-GB 60X18	transparent/white
Size: 96 x 30 mm, lettering field: 92 x 26 mm, incl. 1 x ES-SSMK-GB 90X30	transparent/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
SSMK 60X18	5032439	50
SSMK 96X30	5032442	50

Large format sheet insert strips, can be marked with plotter, DIN A4, perforated, material: Cardboard	
1 sheet = 75 strips, marking field: 56 x 14 mm	transparent/white
1 sheet = 22 strips, marking field: 92 x 26 mm	transparent/white

Accessories		
Type	Order No.	Pcs. / Pkt.
ES-SSMK-GB 60X18	5032468	10
ES-SSMK-GB 96X30	5032455	10



Transparent stick-on cover



Shock protection

- Extremely thick, but flexible and transparent label made from halogen-free PU
- Stuck over labels or markers that have been marked to protect them
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use

General data

Material
Components

Technical data

Polyester foil
Halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Shock protection foil, designed for sticking into CARRIER-EMLP ...				
51 labels per sheet	transparent	EMLPR (26,5X14,5)	0800546	10
42 labels per sheet	transparent	EMLPR (26,5X17,5)	0800360	10
30 labels per sheet	transparent	EMLPR (26,5X26,5)	0800361	10
14 labels per sheet	transparent	EMLPR (30X40)	0800359	10
6 labels per sheet	transparent	EMLPR (80X42)	0800357	10
4 labels per sheet	transparent	EMLPR (80X60)	0800358	10
9 labels per sheet	transparent	EMLPR (100X30)	0800362	10

Device marking

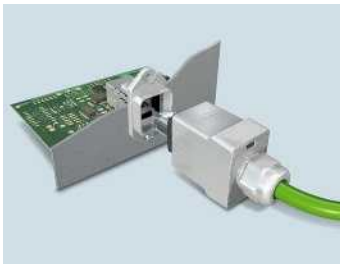
Device marking for Phoenix Contact



UC-TM 6	UCT-TM 6	UC-TMF 6	UC-TMF 12	UCT-TMF 6	UCT-TMF 12	UC-EM (17,5X9)	UC-EM (20X9)	UC-EMP (20X9)	US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X9)	ZB 5, ZB 6, ZB 15
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Catalog 7: interface technology and switching devices

INTERFACE Relay PLC power terminal Order No. 2966508	UC-TM 6	UCT-TM 6	UC-TMF 6	UC-TMF 12	UCT-TMF 6	UCT-TMF 12	UC-EM (17,5X9)	UC-EM (20X9)	UC-EMP (20X9)	US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X9)	ZB 5, ZB 6, ZB 15
INTERFACE Relay PLC-B..., PLC-O..., PLC-R...	■	■											
DEK-REL... relay terminal block	■	■											
DEK-OE... special relays	■	■											
DEK-TR... inverter module	■	■						■	■		■		
COMPACT-LINE UM 45...				■		■							
PROCESS INTERFACE PI-EX...			■		■								
RIFLINE complete													■



UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 16 UCT-TMF 16	UC-WMT (23X4) US-WMT (23X4)	UC-EM (17,5X9)	UC-EM (20X7)	UC-EMP (20X9) US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X7)	UCT-EM (20X9)
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Catalog 4: sensor/actuator cabling and industrial plug-in connectors

SACB with M8 slots	UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 16 UCT-TMF 16	UC-WMT (23X4) US-WMT (23X4)	UC-EM (17,5X9)	UC-EM (20X7)	UC-EMP (20X9) US-EMP (20X9)	UCT-EM (17,5X9)	UCT-EM (20X7)	UCT-EM (20X9)
SACB with M12 slots						■							
SACB with M5 slots		■											
SACB-SPEEDCON distributor boxes with M12 slots and metal threads								■			■		
SACB-SPEEDCON distributor boxes with M12 slots and plug-in screw connection								■			■		
Distributor boxes with QUICKON slots								■			■		
Sensor/actuator cabling accessories							■						
PSR-SACB sensor box with M12 slots						■							
VS-SCRJ..., VS-IL-2X... data plug-in connectors				■									
ASI CC DIST... AS-Interface distributor				■									
VS-SI... front plate									■			■	
HC-M... modular contact insert										■			■
HEAVYCON HC-B...A... heavy-duty plug-in connectors			■										
HEAVYCON HC-D...A... heavy-duty plug-in connectors	■												

Device marking

Device marking for devices from other manufacturers



ABB	UC-EM (17,5X7,5)	UC-EM (17,5X8)	UCT-EM (17X9)	UCT-EM (17,5X7,5)	UCT-EM (17,5X8)	UCT-EM (17X8)	UCT-EM (20X9)
Miniature circuit breaker S 221..., S 223..., S 281..., S 284...	■			■			
Residual current device F271..., F172...				■			
Switch, button, indicator light E 221..., E 222..., E 223...	■			■			
Switch, button, indicator light E 225..., E 226..., E 227...	■			■			
Power dimmer STD...	■			■			
Power supply unit NTL5...	■			■			
Power consumption meter RS 232...	■			■			
Installation contactors ESB..., EN...				■			
Miniature circuit breakers LE1..., LE3..., LP1-3..., LPUC 1/2, LP1NA..., LP3NA...	■			■			
Residual current devices F..., FIP..., FIK..., FI-LP..., FIS...	■			■			
FI signal generator FISG...	■			■			
Load switch IS...	■			■			
Surge arrester SA 4...	■			■			
Logic modules	■			■			
Logic and extension module LM..., DO..., DX...		■			■		
Miniature circuit breaker			■				
Switch contacts A9, A12, A16, A26, A30, A40, A50, A63, A75, A95, A110, A145, A185, A210, A260, A300, AF400, AF460, AF580, AF750						■	
Mini contacts B6, B7						■	
SZ-KZS							■

				UCT-EM (17X10)			
Allen Bradley							
100-C09Z*10, 100-F A22, 100-F A40				■			
Motor starter 140M x				■			

	UCT-EM (10X5)	UCT-EM (12X7)	UC1-TMF 5 UCT1-TMF 5
Beckhoff			
BK 3010, BK 3110			
BC 2000, BC 3100, BC 4000			
BC 9000, BC 9050			
Field distributor IE 3112-2-00			
IL 2301-B310			
SAI distributor (sensor/actuator interface)			

	UCT-EM (12X3,3)	UCT-EM (12X6)
Bernecke + Rainer		
X20 system		

	UCT-EM (10X8)
Bosch/Rexroth	
Bosch/distributor	

Device marking

Device marking for devices from other manufacturers



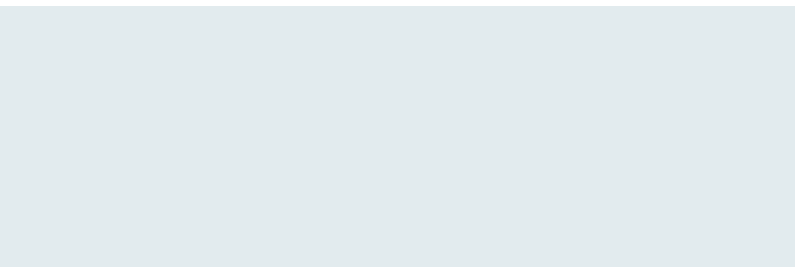
CONTA-CLIP

- PRSU
- CP V4, optocoupler, AOP
- PGSV, PSP

UCT-EM (5X10)

UCT-EM (6X10)

UC-EM (20X9)
UCT-EM (20X9)



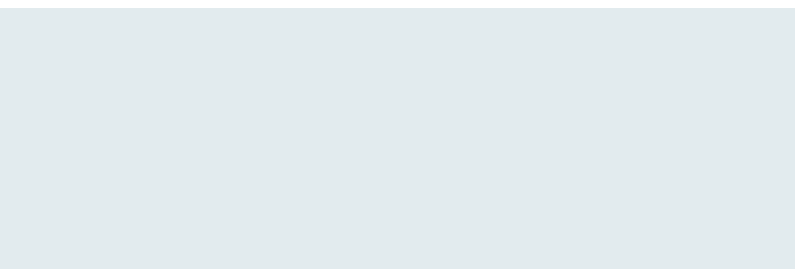
ESCHA

- Distributor block MB
- Distributor block FK/FKS
- M12 distributor
- Distributor block 8MB

UCT-EM (10X5)

UCT-EM (20X8)

UC-EM (20X9)
UCT-EM (20X9)



FESTO

- Compact Performance
- CPA10/EV1
- CP-E16 valve island
- CP-E16-KL-CL
- Electronics CP-16-M
- IBS 6x10
- MPV-E/A08-M8, MPV-E/A08-M12, MPV-E/A12-M8
- CPV pneumatics
- IBS 9/17
- IBS 10/17
- MT
- Valve island IBS 9/20
- CPV18-V1 valves

UCT-EM (6X10)

UCT-EM (17X9)

UCT-EM (17X10)

UC-EM (20X9)
UCT-EM (20X9)

Device marking

Device marking for devices from other manufacturers



Lumberg


	UC-EM (10X8)	UC-EM (17,5X7,5)	UC-EM (19X9)	UC-EM (20X9)	UCT-EM (10X5)	UCT-EM (10X8)	UCT-EM (17,5X7,5)	UCT-EM (20X9)
INTERBUS remote bus terminal block								
PROFIBUS DP..								
CANopen® device CSL...								
DeviceNet™ device DSL...								
AS-Interface module								
Ethernet switch EEC...								
Sensor/actuator distributor ASB								
Valve adapter VAD...								
Valve adapter VBD...								
I/O module UEM...								
PROFIBUS DP PSL 7...								
AS-Interface module ASL 501								
AS-Interface ABAS/UTAS								
Terminal strip SBS4/LED-3								
Distributors E2C and SB8								
AS-Interface IBA, IBI, IBP								
ASB 2-VC-1A, ASB 8								
ASBM 12/LED 3, ASBSM 4/LED 3								
PROFIBUS 0970-PSL-651								

	UC-EM (17,5X8)	UC-EM (20X9)	UCT-EM (17,5X8)	UCT-EM (20X9)
Moeller				
Function relay DILET 11..., DILET 70..., EMR 4...				
Basic device and extension module EASY 2..., EASY 5..., EASY 6..., EASY 7..., EASY 200...				
Relay ZE..., ZEV...				
Contactors DILER, DILEM				

	UC-EM (17,5X9)	UC-EM (20X9)	UC-EM (21X8)	UCT-EM (5X10)	UCT-EM (10X5)	UCT-EM (17X9)	UCT-EM (17,5X8)	UCT-EM (17,5X9)	UCT-EM (17X8)	UCT-EM (20X8)	UCT-EM (20X9)	UCT-EM (21X8)
MURR ELEKTRONIK												
ASI IO SL DIO 8/4/4												
M8 distributors												
MSUD valve plug combination												
AS-i bus module MVK8												
MVPS8 sensor/actuator box												
B6 mini contact												
Initiator holder												
M12 Y cable												
Plastic M12 distributor systems												
MERINO												
Merio M12 8-way distributor 27106												
MVK12 AS-i bus module												
MVM8 Order No. 276658												
MVP 12 distributor: 4-way 27114												
MVP 12 distributor: 6-way 27115												
MVP 12 distributor: 8-way 27116												
MVP 12 AS-i module distributor 27773 to 27778												
Cube 67												
MASI												
MICO 4.6												
MVP 12 distributor: 4-way 27530, MVP 12 distributor: 8-way 27535												
MVK MP DI 08, DI 8 PROFIBUS												
AMMS/AMMDS												
AMZS/AMZSW, Order No. 276397												
AS/S01/DIL/RC-BUG2												
Cube 67 BN-P, KM 5, Logic distributor 8-way M12, Order No. 276247												
M12 distributor, MAW/MDW, MBM bus modules IP20, MBV series												
MIS system wiring, MKS/MKSxxx, MPOT, MSUD valve connection technology												
MSVD/MSDO, MSVS, MUFW/ME...W/MIB												
MVK-I bus module Order No. ME 553300												
NEF mains interference suppression filter, RMM/RMME, UFL/UG-SB/UGS/SV/LUGS/PKB												
Valve plug type A, B, BI, C, CI, distributor MVB 8V												

Device marking

Device marking for devices from other manufacturers

		UC-EM (20X9)	UCT-EM (10X5)	UCT-EM (10X8)	UCT-EM (20X9)
Pepperl & Fuchs					
G6 compact modules					
ASI VAA-2E-64SN (pneumatic module VAA)					
AS-i bus module, G6 compact module, IPG-64-B7					
VAS 2A-K 12 U, WA-4E-62-ZE					

	UC-EM (18X8)	UC-EM (21X8)	UCT-EM (17X8)	UCT-EM (18X8)	UCT-EM (21X8)
Schneider Electric					
Standard contactors GC 1610, 1611, 1620, 2502, 2510, 2511, 2520					
Preselection contactors GY 1611, 1620, 2511, 2520					
TeSys D series, D control relay, K, K control relay					
TeSys model U					
Standard contactors GC 1622, 1630, 1640, 2504, 2522, 2530, 2540					
Standard contactors 4002, 4004, 4011, 4020, 4022, 4030, 4040, 6302, 6304, 6311, 6320, 6322, 6330, 6340, 10020, 10040					
Preselection contactors GY 1640, 2530, 2540, 4020, 4030, 4040, 6320, 6330, 6340					
Motor adjustment combination TeSys LD1...					
Motor adjustment combination HL contactors LD 4...					
Motor output/reversing combination LD5...					

	UC-EM (10X7)	UC-EM (10X8)	UC-EM (20X7)	UC-EM (20X9)	EMT (50/28X13)R...	EMT (50X26)R...	EMT (EX14)R...	EMT (23X109)R...	EMT (31X12,5)R...	EMT (103X17)R...	EMT (103X23)R...	UCT-EM (10X7)	UCT-EM (10X8)	UCT-EM (15X10)	UCT-EM (20X7)	UCT-EM (20X9)
Siemens																
AS-i slaves I/O module K45.../K60...																
ASi-safe module K45.../K60..., mounting plate K45/K60																
AS-i slaves SlimLine S22.5.../S45...																
AS-i slaves counter module, ground fault detection module																
AS-i slaves surge protection module																
AS-i repeater, 4-way distributor, round cable distributor																
AS-i compact module K20...																
Contactors, auxiliary contactors, contactor combination, auxiliary switch block																
Auxiliary switch blocks 3RH 1921...																
EMC interference suppr. module																
Solid-state relay, solid-state contactor, special function module																
Circuit breaker, el. overload relay, therm. overload relay																
Soft starter, direct starter																
Motor management and control devices, timer relays, monitoring relays, safety relays																
ET 200S																
ET 200SP																
S7-300																
S7-400																
S7-1500																
Bus module ET 200X, contact block, Signum button series, 3SB3 button, switching element 3SB14...																
Motor circuit breaker																
End block 8WA1 808																

Device marking

Device marking for devices from other manufacturers



	UC-EM (18X8)	UC-EM (21X8)	UCT-EM (18X8)	UCT-EM (21X8)
Telemecanique				
Standard contactor GC 1610, 1611, 1620, 2502	■		■	
Standard contactor GC 1622, 1630, 1640, 2504		■		■
Standard contactor GC 2510, 2511, 2520	■		■	
Standard contactor GC 2522, 2530, 2540		■		■
Standard contactor GC 4002, 4004, 4011, 4020, 4022, 4030, 4040		■		■
Standard contactor GC 6302, 6304, 6311, 6320, 6322, 6330, 6340		■		■
Standard contactor GC 10020, 10040		■		■
Preselection contactor GY 1611, 1620	■		■	
Preselection contactor GY 1640		■		■
Preselection contactor GY 2511, 2520	■		■	
Preselection contactor GY 2530, 2540		■		■
Preselection contactor GY 4020, 4030, 4040		■		■
Preselection contactor GY 6320, 6330, 6340		■		■
Motor output combination TeSys LD1...		■		■
Motor output combination HL contactors LD4...		■		■
Motor output combination/reversing combination LD5...		■		■

Device marking

Marker carriers from Phoenix Contact



	UC-EMP (27X8) US-EMP (27X8) US-EMLP (27X8) EML (26,5X7,5)R SR EMLP (27X8)R SR	UC-EMP (27X12,5) US-EMP (27X12,5) US-EMLP (27X12,5) EML (26,5X12)R SR EMLP (27X12,5)R SR	UC-EMP (27X15) US-EMP (27X15) US-EMLP (27X15) EMP-AL (27x15) EMLP-AL (27x15)	UC-EMP (27X18) US-EMP (27X18) US-EMLP (27X18) EML (26,5X17,5)R... EMLP (27X18)R SR EMP-AL (27x18) EMLP-AL (27x18)	UC-EMP (27X27) US-EMP (27X27) US-EMLP (27X27) EML (26,5X26,5)R SR EMLP (27X27)R SR
Phoenix Contact					
CARRIER-EMP 22 (27 x 8)					
CARRIER-EMP 22 (27 x 12,5)					
CARRIER-EMP 22 (27 x 15)					
CARRIER-EMP 22 (27 x 18)					
CARRIER-EMP 22 (27 x 27)					
CARRIER-EMLP 22 (27 x 8)					
CARRIER-EMLP 22 (27 x 12,5)					
CARRIER-EMLP 22 (27 x 15)					
CARRIER-EMLP 22 (27 x 18)					
CARRIER-EMLP 22 (27 x 27)					

	UC-EMP (17X15) US-EMP (17X15)	UC-EMP (27X15) US-EMP (27X15) EMP-AL (27x15) EMLP-AL (27x15)	UC-EMP (49X15) US-EMP (49X15) EMP-AL (49x15)	UC-EMP (60X15) US-EMP (60X15) EMP-AL (60x15)	UC-EMP (60X30) US-EMP (60X30) EMP-AL (60x30)	US-EMP (85,6X54) EMP-AL (85,6x54)
Phoenix Contact						
CARRIER-EMP (17 x 15)						
CARRIER-EMP (27 x 15)						
CARRIER-EMP (49 x 15)						
CARRIER-EMP (60 x 15)						
CARRIER-EMP (60 x 30)						
CARRIER-EMP (85,6 x 54)						
CARRIER-EMP (1000 x 15)						
CARRIER-EMP (1000 x 15) TR						
CARRIER/L-EMP (1000 x 15)						
CARRIER/L-EMP (1000 x 15) TR						

Marker carriers from other manufacturers



	UC-EMP (17X15) US-EMP (17X15)	UC-EMLP (22x22)	UC-EMP (27X8) US-EMP (27X8)	UC-EMP (27X12,5) US-EMP (27X12,5)	UC-EMP (27X15) US-EMP (27X15)	UC-EMP (27X18) US-EMP (27X18)	UC-EMP (27X27) US-EMP (27X27)	UC-EMP (49X15) US-EMP (49X15)	UC-EMP (60X15) US-EMP (60X15)	UC-EMP (60X30) US-EMP (60X30)
ABB										
MA6-1060										
BSH-A										
BSH-B										
CONTA-CLIP										
GSU-H 17 x 15										
GSU-H 27 x 15										
GSU-H 49 x 15										
GSU-H 60 x 15										
GSU-H 60 x 30										
Grafoplast										
SIT 0A06...										
SIT 0A07...										
SIT 0B05...										
SIT 0B07...										
SIT 0B08...										
SIT 0B09...										
Moeller										
M22S-ST-X										
Murrplastik										
BT 22,5										
BTK 22,5										
BT Harmony ZB4										
BT 15/27										
BT 15/49										
Siemens										
3SB3922-0AY										
3SB3925-0AV										
3SB1906-2AA										
3SB1906-2AW										
Empty housing 3SB38...										
Weidmüller										
SM-H 27/12,5										
SM-H 27/18										
SM-H 27/27										
CC-H 15/17										
CC-H 15/27										
CC-H 15/49										
CC-H 30/60										



System marking - MARKING system

Clear and extensive marking of systems not only guarantees safety but is also a legal requirement. Safety and information signs provide important information and help to improve operational processes.

Phoenix Contact provides numerous marking labels for system marking. From warning labels to multicolored symbol signs, the extremely diverse product range covers all applications. We offer a range of printing systems for marking.

HF and UHF handheld devices and matching markers with transponder/tag are also available. With the RFMARK RFID system, data can be received, transmitted, and scanned on a contact-free basis and without visual contact.

Product range overview

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RFMARK RFID system	310
PMLP... and PMP... system marking	
Unmarked system marking with transponder, UniCard material	312
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PML-W... warning labels	
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PML-P... prohibition signs	
Unmarked prohibition signs, UniSheet material	326
Unmarked prohibition signs, supplied in rolls	327
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Unmarked mandatory signs, supplied in rolls	335
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Unmarked magnetic labels, supplied in rolls	355

System marking



Unambiguous marking of systems helps to avoid operating errors and is therefore a key component of occupational safety. Information and safety signs also provide important information on site, making it easier to maintain systems.

Phoenix Contact provides a wide range of labels which meet the legal requirements for correct system marking. Depending on the type, they can be marked using the THERMOMARK LINE thermal transfer printers. The markers are characterized by a high level of wipe and scratch resistance.

The RFMARK-RFID system provides all the advantages of system marking using radio frequency identification handheld devices. The corresponding markers with transponder/tag can be marked with the BLUEMARK.

Please contact us if you are unable to find a suitable size or color for your application from the options available in our product range. It goes without saying that Phoenix Contact also provides a comprehensive marking service for system marking applications. Test us out!



PML-W warning labels

Warning labels are used to identify danger areas in systems and workshops. The unmarked warning labels allow you to create custom warning instructions.



PML-P prohibition signs

Prohibition signs prohibit potentially dangerous activities. They are therefore a key component of occupational health and safety.



PML-M mandatory signs

Mandatory signs prescribe a certain mode of behavior and are used to prevent accidents in the workplace.



PML-T pipeline signs

Pipeline markers are used to indicate fluids or gases. By removing the arrowhead that is not required, the direction of flow can also be defined.



PML-GHS hazardous substances labels

Hazardous substances labels are used for the additional marking of the pipeline markers if hazardous substances according to the Ordinance on Hazardous Substances (GefStoffV) are transported through the pipelines.



PMM magnetic labels

Magnetic labels provide a flexible solution if you do not wish to apply permanent marking. If required, they can be quickly attached to metallic surfaces and removed just as easily.

System marking

RFMARK RFID system



RFMARK high-frequency handheld

RFMARK HF is a powerful handheld device for contact-free reading and writing of HF transponders. The RFMARK HF can identify and locate HF transponders. Data can be received, transmitted, and scanned on a contact-free basis and without visual contact.



RFMARK ultra-high frequency handheld

The RFMARK UHF is a powerful handheld device which is equipped with a crossed dipole antenna. This allows UHF transponders to be written and read regardless of their position. Bulk detection of 150 transponders per second is also possible.



Advantages and accessories

- Advantages of the RFMARK readers:
- Easy operation via touch screen
 - Low power consumption and long battery life
 - 1D laser scanner and 2D imager

Matching accessories

You can make optimum use of the RFMARK readers and ensure they are as user-friendly as possible with our reader accessories.



Radio-frequency identification, RFID

Used for contact-free identification, data exchange, and localization of transponders/tags without visual contact. With the aid of an RFID handheld device, which acts as a transmitter and receiver, data is transmitted to and received from a transponder/tag by electromagnetic waves (UHF) or a magnetic field (HF).

Dimensions

General data	[mm]
Degree of protection	
Temperature range	[°C]
Weight	[kg]
Frequency	[MHz]
Read/write format	[m]
Memory	
Display	

Description

Handheld, high-frequency range

Range up to 0.1 m, depending on the environment

Handheld, ultra-high frequency range

Range up to 2.0 m, depending on the environment

Charging and data exchange station, with replacement battery, connection for USB 2.0 and Ethernet, charger,

For RFMARK HF, with power supply unit and power cable (EU/UK)

for RFMARK UHF, with power supply unit and power cable (EU/UK/US/CN)

Replacement battery,

For RFMARK HF, Li-ion 7.4 V, 2.6 Ah

For RFMARK UHF, Li-ion 3.7 V, 2.26 Ah

Protective bag, with strap, protection against splash water, touch screen operation not possible for RFMARK HF

Belt pouch, touch screen can be operated, for RFMARK HF

For RFMARK UHF

Read and write USB stick,

Crossed dipole antenna, range: 1 m



Handheld, high-frequency (HF)



Handheld, ultra-high frequency (UHF)

Technical data		
Width	Length	Height
90	250	45
IP54		
-20 ... 55		
0.55		
13.56		
max. 0.1		
256 MB DDR RAM		
3.5" color touch screen		

Technical data		
Width	Length	Height
60	147	39
IP54		
-20 ... 55		
0.235		
868		
max. 2		
256 MB DDR RAM		
2.2" color touch screen		

Ordering data		
Type	Order No.	Pcs. / Pkt.
RFMARK HF	5148010	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
RFMARK UHF	5148011	1

Accessories		
Type	Order No.	Pcs. / Pkt.
RFMARK HF POWER LINK STATION	5148013	1
RFMARK HF/ACCU	5148015	1
RFMARK HF PROTECTION CASE	5148017	1
RFMARK HF/BELTPOUCH	5148018	1

Accessories		
Type	Order No.	Pcs. / Pkt.
RFMARK UHF POWER LINK STATION	5148014	1
RFMARK UHF/ACCU	5148016	1
RFMARK UHF/BELTPOUCH	5148021	1
RFMARK UHF FD	5148012	1

System marking

Stick-on system marking with RFID transponder

Can be marked using:



UV LED technology



Self-adhesive label with integrated RFID transponder

Markers

- The PMLP-RFID ... marking range includes self-adhesive markers for system marking, pre-mounted in a frame, with good adhesive properties
- The markers are integrated in a uniform matrix and can be printed quickly and easily with the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors

Inlays

- The HF transponder inlays comply with ISO 15693 and ISO 18000-3 mode 1
- The UHF transponder inlays comply with EPC Class 1 Gen 2 and ISO 18000-6C

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED
PVC/PC
-
-25 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Self-adhesive plastic label , in a frame, with integrated HF transponder				
1-section, lettering field size: 90 x 38 mm, reading performance: max. 0.1 m, depending on the environment	white	PMLP-RFID/HF (90X38)	0830956	10
1-section, lettering field size: 110 x 38 mm, reading performance: 0.1 m, depending on the environment	white	PMLP-RFID/HF (110X38)	0831030	10
UniCard , self-adhesive plastic label, with integrated UHF transponder				
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment	white	PMLP-RFID/UHF (90X38)	0830957	10
1-section, lettering field size: 110 x 38 mm, reading performance: 2.0 m, depending on the environment	white	PMLP-RFID/UHF (110X38)	0831031	10



System marking for inserting into marker carriers, with RFID transponder

Can be marked using:



UV LED technology



Label with integrated RFID transponder

Markers

- The PMP-RFID ... marking range includes markers for system marking, pre-mounted in a frame, specially designed to fit into existing CARRIER-PMP (108/110x38) marker carriers
- The markers are integrated in a uniform matrix and can be printed quickly and easily with the BLUEMARK CLED
- The format automatically ensures printing with a high level of positional accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors
- The CARRIER-PM(L)P ... can be equipped with colored PMST markers according to DIN 2403

Inlays

- The HF transponder inlays comply with ISO 15693 and ISO 18000-3 mode 1
- The UHF transponder inlays comply with EPC Class 1 Gen 2 and ISO 18000-6C

General data

Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK CLED
PVC/PC
V0
-25 ... 80
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and cadmium

Description	Color
Plastic label, in a frame, with integrated HF transponder	
1-section, lettering field size: 90 x 38 mm, reading performance: max. 0.1 m, depending on the environment	white
1-section, lettering field size: 110 x 38 mm, reading performance: 0.1 m, depending on the environment	white
UniCard, plastic label with integrated UHF transponder	
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment	white
1-section, lettering field size: 90 x 38 mm, reading performance: max. 2.0 m, depending on the environment	orange
1-section, lettering field size: 110 x 38 mm, reading performance: 2.0 m, depending on the environment	white

Ordering data

Type	Order No.	Pcs. / Pkt.
PMP-RFID/HF (90X38)	0830954	10
PMP-RFID/HF (110X38)	0831028	10
PMP-RFID/UHF (90X38)	0830955	10
PMP-RFID/UHF (90X38) OG	0803048	10
PMP-RFID/UHF (110X38)	0831029	10

System marking

System marking for sticking on or inserting into marker carriers



- The UniCard UC-PMLP ... marking range includes self-adhesive markers for system marking, with good adhesive properties
- The UniCard UC-PMP ... marking range includes markers for system marking, specially designed to fit into existing CARRIER-PM(L)P... marker carriers
- The format automatically ensures printing with a high level of positional accuracy
- The wide temperature range means that the labels can be used both indoors and outdoors
- Marking service: Phoenix Contact can custom-mark all UniCard markers in accordance with your requirements
- The CARRIER-PM(L)P ... can be equipped with colored PMST markers according to DIN 2403

Can be marked using:



UV LED technology

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

General data	
Can be marked using	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
Can be marked using	BLUEMARK CLED
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Free from silicone and halogen

Description	Color
UniCard, with self-adhesive plastic label, 1-section, lettering field size: 90 x 38 mm Lettering field size: 110 x 38 mm	white white
UniCard, plastic label, 1-section lettering field size: 90 x 38 mm lettering field size: 90 x 38 mm	white
Lettering field size: 110 x 38 mm	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-PMLP (90X38)	0831017	10
UC-PMLP (110X38)	0831020	10



PRINTED
FOR YOU



Unmarked or marked according to customer specifications

Technical data

BLUEMARK CLED
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-PMP (90X38)	0831016	10
UC-PMP (90X38) YE	0831046	10
UC-PMP (90X38) VT	0831047	10
UC-PMP (90X38) BU	0831048	10
UC-PMP (110X38)	0831019	10

System marking

Marker carrier for UC-PMP... and PMP-RFID... markers



- CARRIER PMP (108x38) is a flexible marker carrier for the UC-PMP... and PMP-RFID... labels with a width of 90 mm
- The PMST markers for media marking according to DIN 2403 are designed specifically for the CARRIER-PMP (108x38)
- The RVT-PA 3,5 BK fixing rivet is suitable for fixing the PMST markers in the different CARRIER-PM(L)P ...
- The CARRIER-PMP can be attached to pipes using the SCRT ... hose clamp or the WT ... cable binder

Notes:

1) RVT-PA...BK rivet for fixing PMST ... marker strips to the CARRIER-PMP ...



For mounting with screws, screw clamps, or cable binders

General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marker carrier , for UC-PMP... and PMP-RFID... labels that can be inserted				
Carrier size: 108 x 38 mm	black	CARRIER-PMP (108X38)	0830958	10
Marking label for conveyed fluids , for equipping CARRIER-PMP ... according to DIN 2403	white yellow orange red violet green gray brown blue black			
Plastic body-bound rivet , 3.5 mm diameter ¹⁾				
Mounting strip , can be screwed, for CARRIER-PMP ...				



For attachment to the CARRIER-PMP (108x38) using rivets



Rivet for attaching the PMST markers



Screw clamp for attachment to pipes

Technical data
PVC
V0
-30 ... 80
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data
PVC
-
-30 ... 80
-
-

Technical data
Chromium steel 1.4016
-
-
-
-

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

PMST (9X38)	0830960	100
PMST (9X38) YE	0830964	100
PMST (9X38) OG	0830966	100
PMST (9X38) RD	0830962	100
PMST (9X38) VT	0830967	100
PMST (9X38) GN	0830961	100
PMST (9X38) GY	0830963	100
PMST (9X38) BN	0830968	100
PMST (9X38) BU	0830969	100
PMST (9X38) BK	0830965	100

RVT-PA 3,5 BK	0830959	100
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SCRT 9X16-27	0830970	50
SCRT 9X25-40	0830971	50
SCRT 9X40-60	0830972	25
SCRT 9X60-80	0830973	25
SCRT 9X80-100	0830974	25
SCRT 9X100-120	0830975	25
SCRT 9X140-160	0830976	25
SCRT 9X160-180	0830977	25
SCRT 9X180-200	0830978	25

System marking

Marker carrier for UC-PMP... and PMP-RFID... markers



- The CARRIER-PMP (110x38) is designed for mounting the UC-PMP ... and PMP-RFID ... labels. The carrier features snap-in pins which prevent the labels and the PM(S)T markers from falling out
- The self-adhesive CARRIER/L-PMP-ENCLOSED (110x38) consists of a closed housing and has an adhesive strip on the rear side for direct fixing onto smooth and clean surfaces. For difficult surfaces, it is also possible to fix the carrier with two M5 countersunk screws. The carrier is equipped with detents that prevent the labels and the PM(S)T marker from falling out
- The CARRIER-PMP-ENCLOSED (110x38) consists of a closed housing and is designed for the UC-PMP ... and PMP-RFID ... labels. Mounting takes place by screwing two M5 countersunk screws. The carrier is equipped with detents that prevent the labels and the PM(S)T marker from falling out
- The PMT and PMST (10 x 38) markers for media marking according to DIN 2403 are designed specifically for the CARRIER-PM(L)P... (110x38). These can be inserted quickly and easily into the carriers. The PMST (10x38) label has a hole for additional fixing in the three different carriers ... (110x38) using the RVT-PA 3,5 BK fixing rivet



For mounting with screws, screw clamps or cable binders

General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Wipe resistance	-
Components	Free from silicone and halogen

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Marker carrier , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black	CARRIER-PMP (110X38)	0831056	10
Closed, self-adhesive marker carrier , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 110 x 38 mm	black			
Closed marker carrier , for UC-PMP... and PMP-RFID labels that can be inserted, carrier size 140 x 68 mm	black			
Marking label for conveyed fluids, for equipping CARRIER-PMP (110x38), CARRIER/L-PMP (110x38), and CARRIER-PMP-ENCLOSED (110x38) according to DIN 2403	white yellow orange red violet green gray brown blue black			
Marking label for conveyed fluids, with centered hole, for additional attachment with a plastic expanding rivet, for equipping CARRIER-PMP (110x38), CARRIER/L-PMP (110x38), and CARRIER-PMP-ENCLOSED (110x38) according to DIN 2403	white yellow orange red violet green gray brown blue black			



For sticking or screwing on



For mounting with screws



Media markers for inserting into carriers

Technical data			Technical data			Technical data		
PA			PA			PVC		
V2			V2			-		
-40 ... 105			-40 ... 105			-30 ... 80		
-			-			DIN EN 61010-1 (VDE 0411-1)		
Free from silicone and halogen			Free from silicone and halogen			Free from silicone and cadmium		
Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CARRIER/L-PMP-ENCLOSED (110X38)	0831062	10						
			CARRIER-PMP-ENCLOSED (110X38)	0831068	10			
						PMT (10X38)	0831086	100
						PMT (10X38) YE	0831087	100
						PMT (10X38) OG	0831088	100
						PMT (10X38) RD	0831089	100
						PMT (10X38) VT	0831090	100
						PMT (10X38) GN	0831091	100
						PMT (10X38) GY	0831092	100
						PMT (10X38) BN	0831093	100
						PMT (10X38) BU	0831094	100
						PMT (10X38) BK	0831095	100
						PMST (10X38)	0831076	100
						PMST (10X38) YE	0831077	100
						PMST (10X38) OG	0831078	100
						PMST (10X38) RD	0831079	100
						PMST (10X38) VT	0831080	100
						PMST (10X38) GN	0831081	100
						PMST (10X38) GY	0831082	100
						PMST (10X38) BN	0831083	100
						PMST (10X38) BU	0831084	100
						PMST (10X38) BK	0831085	100

System marking

UniSheet - stick-on warning labels, unmarked

Can be marked using:



Thermal transfer for sheets and cards

PRINTED
FOR YOU



Unmarked or marked according to customer specifications

The unmarked US-PML warning labels allow you to create custom warning instructions. A variety of symbols are available in the CLIP PROJECT software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard
- The format automatically ensures printing with a high degree of positioning accuracy
- Marking service: Phoenix Contact can custom-mark all US-PML ... warning labels according to your requirements

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
UniSheet , with self-adhesive warning labels, triangular	
24-section, side length: 25 mm	yellow
6-section, side length: 50 mm	yellow
1-section, side length: 100 mm	yellow
UniSheet , with self-adhesive warning labels, triangular with additional rectangular lettering field	
16-section, side length: 25 mm	yellow
4-section, side length: 50 mm	yellow
1-section, side length: 100 mm	yellow

Ordering data

Type	Order No.	Pcs. / Pkt.
US-PML-W100 (25X25)	1014125	10
US-PML-W100 (50X50)	1014126	10
US-PML-W100 (100X100)	1014127	10
US-PML-W200 (25X25)	1014131	10
US-PML-W200 (50X50)	1014132	10
US-PML-W200 (100X100)	1014133	10

Magazine, for THERMOMARK CARD..., for accommodating all US-materials

Ink ribbon, length: 300 m, width: 110 mm

Accessories

Accessories	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1
THERMOMARK-RIBBON 110-TC	0801371	1

Stick-on warning labels, unmarked

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

The unmarked PML warning labels allow you to create custom warning instructions. A variety of symbols are available in the CLIP PROJECT software. The warning labels offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- The warning labels conform to the ISO 7010 international standard
- Marking service: Phoenix Contact can custom-mark all PML ... warning labels according to your requirements

General data

Can be marked using

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
 PVC
 -40 ... 90
 DIN EN 61010-1 (VDE 0411-1)
 Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label , triangular 500 labels per roll, side length: 25 mm	yellow	PML-W100 (25X25)R	0830429	1
500 labels per roll, side length: 50 mm	yellow	PML-W100 (50X50)R	0830430	1
250 labels per roll, side length: 100 mm	yellow	PML-W100 (100X100)R	0830431	1
Warning label , triangular, additional rectangular lettering field				
500 labels per roll, side length: 25 mm	yellow	PML-W200 (25X25)R	0830451	1
500 labels per roll, side length: 50 mm	yellow	PML-W200 (50X50)R	0830452	1
250 labels per roll, side length: 100 mm	yellow	PML-W200 (100X100)R	0830453	1
Warning label , rectangular				
500 labels per roll, width: 52 mm, height: 26 mm	yellow	PML-W300 (52X26)R	0830458	1
500 labels per roll, width: 74 mm, height: 37 mm	yellow	PML-W300 (74X37)R	0830459	1
250 labels per roll, width: 105 mm, height: 52 mm	yellow	PML-W300 (105X52)R	0830460	1

Ink ribbon, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
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System marking

Stick-on warning labels, triangular with lightning flash



The PML warning labels are available with various warning instructions. The warning labels offer the following features:

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard

General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label , triangular, with lightning flash 25 labels per sheet, side length: 25 mm	yellow	PML-W101 (25X25)	0830433	5
9 labels per sheet, side length: 50 mm	yellow	PML-W101 (50X50)	0830434	5
9 labels per sheet, side length: 100 mm	yellow	PML-W101 (100X100)	0830435	5
1 label per sheet, side length: 200 mm	yellow	PML-W101 (200X200)	0830436	5

Stick-on warning labels, triangular with lightning flash and details of voltage

- Printed cards
- Suitable for indoor and outdoor use
- The warning labels conform to the ISO 7010 international standard



General data		Technical data			Technical data		
Material		PVC		PVC			
Temperature range	[°C]	-40 ... 90		-40 ... 90			
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)			
Components		Silicone-free		Silicone-free			
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Warning label , triangular with lightning flash, additional rectangular lettering field, printed text in German/English: "Spannung Voltage"							
16 labels per sheet, side length: 25 mm	yellow	PML-W201 (25X25)	0830454	5			
4 labels per sheet, side length: 50 mm	yellow	PML-W201 (50X50)	0830455	5			
4 labels per sheet, side length: 100 mm	yellow	PML-W201 (100X100)	0830456	5			
1 label per sheet, side length: 200 mm	yellow	PML-W201 (200X200)	0830457	5			
Warning label , triangular, with lightning flash, additional rectangular lettering field, printed text: 230 V							
16 labels per sheet, side length: 25 mm	yellow				PML-W202 (25X25)	0830437	5
4 labels per sheet, side length: 50 mm	yellow				PML-W202 (50X50)	0830438	5
4 labels per sheet, side length: 100 mm	yellow				PML-W202 (100X100)	0830439	5
1 label per sheet, side length: 200 mm	yellow				PML-W202 (200X200)	0830440	5
Warning label , triangular, additional rectangular lettering field, printed items: lightning flash and 400 V							
16 labels per sheet, side length: 25 mm	yellow				PML-W203 (25X25)	0830441	5
4 labels per sheet, side length: 50 mm	yellow				PML-W203 (50X50)	0830442	5
4 labels per sheet, side length: 100 mm	yellow				PML-W203 (100X100)	0830443	5
1 label per sheet, side length: 200 mm	yellow				PML-W203 (200X200)	0830444	5
Warning label , triangular, additional rectangular lettering field, printed items: lightning flash and 120 V							
4 labels per sheet, side length: 50 mm	yellow				PML-W204 (50X50)	0830445	5
4 labels per sheet, side length: 100 mm	yellow				PML-W204 (100X100)	0830446	5
1 label per sheet, side length: 200 mm	yellow				PML-W204 (200X200)	0830447	5
Warning label , triangular, additional rectangular lettering field, printed items: lightning flash and 240 V							
4 labels per sheet, side length: 50 mm	yellow				PML-W205 (50X50)	0830448	5
4 labels per sheet, side length: 100 mm	yellow				PML-W205 (100X100)	0830449	5
1 label per sheet, side length: 200 mm	yellow				PML-W205 (200X200)	0830450	5

System marking

Stick-on warning labels, with lightning flash and warning instruction

- Printed cards
- Suitable for indoor and outdoor use



General data		Technical data		
Material		PVC		
Temperature range	[°C]	-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Warning label , rectangular, with lightning flash, printed text in German/English: "Danger! High voltage when main switch is off"				
4 labels per sheet, W x H: 52 x 26 mm	yellow	PML-W301 (52X26)	0830461	5
3 labels per sheet, W x H: 74 x 37 mm	yellow	PML-W301 (74X37)	0830462	5
4 labels per sheet, W x H: 105 x 52 mm	yellow	PML-W301 (105X52)	0830463	5
2 labels per sheet, W x H: 200 x 100 mm	yellow	PML-W301 (200X100)	0830464	5
Warning label , rectangular, printed text in German: "Achtung! Vor Öffnen des Gehäuses Netzstecker ziehen!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
Warning label , rectangular, with lightning flash, printed text in English: "Caution! Before opening housing, pull main plug!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
Warning label , rectangular, printed text in German: "Achtung! Vor Öffnen des Gehäuses Hauptschalter ausschalten!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			
Warning label , rectangular, with lightning flash, printed text in English: "Caution! Before opening housing, turn off main power switch!"				
4 labels per sheet, W x H: 52 x 26 mm	yellow			
3 labels per sheet, W x H: 74 x 37 mm	yellow			
4 labels per sheet, W x H: 105 x 52 mm	yellow			
2 labels per sheet, W x H: 200 x 100 mm	yellow			



Technical data

PVC
 -40 ... 90
 DIN EN 61010-1 (VDE 0411-1)
 Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-W302 (52X26)	0830465	5
PML-W302 (74X37)	0830466	5
PML-W302 (105X52)	0830467	5
PML-W302 (200X100)	0830468	5
PML-W303 (52X26)	0830469	5
PML-W303 (74X37)	0830470	5
PML-W303 (105X52)	0830471	5
PML-W303 (200X100)	0830472	5
PML-W304 (52X26)	0830473	5
PML-W304 (74X37)	0830474	5
PML-W304 (105X52)	0830475	5
PML-W304 (200X100)	0830476	5
PML-W305 (52X26)	0830477	5
PML-W305 (74X37)	0830478	5
PML-W305 (105X52)	0830479	5
PML-W305 (200X100)	0830480	5

System marking

UniSheet - stick-on prohibition signs, color preprinted without symbols



- The color preprinted US PML-P prohibition signs on US cards allow you to create custom prohibition notices
- A variety of symbols are available in the CLIP PROJECT software

Notes:
For accessories, visit phoenixcontact.net/products



Unmarked

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
Prohibition sign , color preprinted, without symbols	
4-section, diameter: 50 mm	red/white
1-section, diameter: 100 mm	red/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-PML-P100 (D50)	1014217	10
US-PML-P100 (D100)	1014218	10

Magazine , for THERMOMARK CARD..., for accommodating all US-materials
Ink ribbon , length: 300 m, width: 110 mm

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1
THERMOMARK-RIBBON 110-TC	0801371	1

Stick-on prohibition signs, color preprinted, without symbols



Unmarked

The color preprinted PML-P prohibition signs on a roll allow you to create custom prohibition notices. A variety of symbols are available in the CLIP PROJECT software. The prohibition signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The prohibition signs conform to the ISO 7010 international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all PML ... markers according to your requirements

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
Prohibition sign, color preprinted, without symbols	
500 labels per roll, diameter: 50 mm	red/white
250 labels per roll, diameter: 100 mm	red/white

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-P100 (D50)R	1014225	1
PML-P100 (D100)R	1014226	1

Ink ribbon, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
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System marking

Stick-on prohibition signs, preprinted with symbols



The PML-P... prohibition signs are available with various symbols. The prohibition signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - No smoking

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
Prohibition sign, preprinted with "No smoking" symbol	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white
Prohibition sign, preprinted with "Do not connect" symbol	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white
Prohibition sign, preprinted with "Forbidden for persons with pacemakers" symbol	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white
Prohibition sign, preprinted with "Do not touch" symbol	
3-section, diameter: 50 mm	red/white
3-section, diameter: 100 mm	red/white
1-section, diameter: 200 mm	red/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P101 (D50)	1014184	5
PML-P101 (D100)	1014185	5
PML-P101 (D200)	1014186	5



Symbol - Do not connect



Symbol - Forbidden for persons with pacemakers



Symbol - Do not touch

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P102 (D50)	1014187	5
PML-P102 (D100)	1014188	5
PML-P102 (D200)	1014189	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P103 (D50)	1014190	5
PML-P103 (D100)	1014191	5
PML-P103 (D200)	1014192	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P104 (D50)	1014193	5
PML-P104 (D100)	1014194	5
PML-P104 (D200)	1014195	5

System marking

Stick-on prohibition signs, preprinted with symbols

- Printed cards
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Do not walk here



Symbol - No fire, naked lights or smoking

General data		Technical data			Technical data				
		Material	Temperature range [°C]	Wipe resistance	Components	Material	Temperature range [°C]	Wipe resistance	Components
		PVC	-40 ... 90	DIN EN 61010-1 (VDE 0411-1)	Silicone-free	PVC	-40 ... 90	DIN EN 61010-1 (VDE 0411-1)	Silicone-free
Description		Ordering data			Ordering data				
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.		
Prohibition sign, preprinted with "Do not walk here" symbol									
3-section, diameter: 50 mm		red/white	PML-P105 (D50)	1014196	5				
3-section, diameter: 100 mm		red/white	PML-P105 (D100)	1014197	5				
1-section, diameter: 200 mm		red/white	PML-P105 (D200)	1014198	5				
Prohibition sign, preprinted with "No fire, naked lights or smoking" symbol									
3-section, diameter: 50 mm		red/white				PML-P106 (D50)	1014199	5	
3-section, diameter: 100 mm		red/white				PML-P106 (D100)	1014200	5	
1-section, diameter: 200 mm		red/white				PML-P106 (D200)	1014201	5	
Prohibition sign, preprinted with "Do not reach in" symbol									
3-section, diameter: 50 mm		red/white							
3-section, diameter: 100 mm		red/white							
1-section, diameter: 200 mm		red/white							
Prohibition sign, preprinted with "Do not extinguish with water" symbol									
3-section, diameter: 50 mm		red/white							
3-section, diameter: 100 mm		red/white							
1-section, diameter: 200 mm		red/white							
Prohibition sign, preprinted with "No mobile phones" symbol									
3-section, diameter: 50 mm		red/white							
3-section, diameter: 100 mm		red/white							
1-section, diameter: 200 mm		red/white							



Symbol - Do not reach in



Symbol - Do not extinguish with water



Symbol - No mobile phones

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P107 (D50)	1014202	5
PML-P107 (D100)	1014203	5
PML-P107 (D200)	1014204	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P108 (D50)	1014205	5
PML-P108 (D100)	1014206	5
PML-P108 (D200)	1014207	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-P109 (D50)	1014208	5
PML-P109 (D100)	1014209	5
PML-P109 (D200)	1014210	5

System marking

Stick-on prohibition signs, preprinted with symbols

- Printed cards
- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - No food

General data		Technical data		
Material		PVC		
Temperature range	[°C]	-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
Prohibition sign , preprinted with "No food" symbol				
3-section, diameter: 50 mm	red/white	PML-P110 (D50)	1014211	5
3-section, diameter: 100 mm	red/white	PML-P110 (D100)	1014212	5
1-section, diameter: 200 mm	red/white	PML-P110 (D200)	1014213	5
Prohibition sign , preprinted with "No access for unauthorized persons" symbol				
3-section, diameter: 50 mm	red/white			
3-section, diameter: 100 mm	red/white			
1-section, diameter: 200 mm	red/white			



Symbol - No access for unauthorized persons

Technical data

PVC
 -40 ... 90
 DIN EN 61010-1 (VDE 0411-1)
 Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-P111 (D50)	1014214	5
PML-P111 (D100)	1014215	5
PML-P111 (D200)	1014216	5

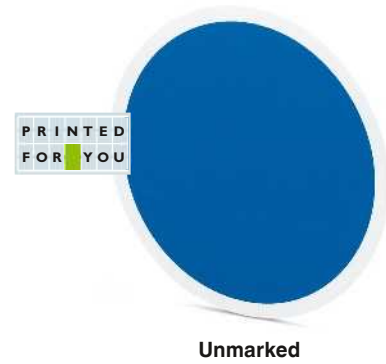
System marking

UniSheet - stick-on mandatory signs, color preprinted, without symbols

Can be marked using:



Thermal transfer for sheets and cards



Unmarked

The unmarked US-PML-M mandatory signs on US cards allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate
- Marking service: Phoenix Contact can custom-mark all US-PML ... markers according to your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
Mandatory sign , color preprinted, without symbols	
4-section, diameter: 50 mm	blue
1-section, diameter: 100 mm	blue

Ordering data

Type	Order No.	Pcs. / Pkt.
US-PML-M100 (D50)	1014176	10
US-PML-M100 (D100)	1014177	10

Magazine , for THERMOMARK CARD..., for accommodating all US-materials	
Ink ribbon , specially for US-PML..., US-EMLF...,	
Length: 240 m, width: 110 mm	white

Accessories

THERMOMARK CARD-US-MAG1	5146451	1
TM-RIBBON 110-TC/TR WH	1014402	1

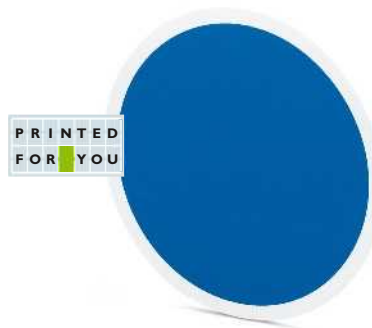
Stick-on mandatory signs, color preprinted, without symbols



Can be marked using:



Thermal transfer for rolls



Unmarked

The color preprinted PML-M mandatory signs on a roll allow you to create custom mandatory notices. A variety of symbols are available in the CLIP PROJECT software. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Mandatory sign , color preprinted, without symbols	
500 labels per roll, diameter: 50 mm	blue
250 labels per roll, diameter: 100 mm	blue

Ink ribbon, specially for US-PML..., US-EMLF...,	
Length: 240 m, width: 110 mm	white

Technical data	
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M100 (D50)R	1014180	1
PML-M100 (D100)R	1014181	1

Accessories		
TM-RIBBON 110-TC/TR WH	1014402	1

System marking

Stick-on mandatory signs, preprinted, with symbols



The PML-M mandatory signs are available with various symbols. The mandatory signs offer the following features:

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - General mandatory action symbol

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
PVC	
-40 ... 90	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
Mandatory sign, preprinted with "General mandatory action" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
Mandatory sign, preprinted with "Wear safety goggles" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
Mandatory sign, preprinted with "Observe instructions for use" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue
Mandatory sign, preprinted with "Wear ear protectors" symbol	
3-section, diameter: 50 mm	blue
3-section, diameter: 100 mm	blue
1-section, diameter: 200 mm	blue

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M101 (D50)	1014137	5
PML-M101 (D100)	1014138	5
PML-M101 (D200)	1014139	5



Symbol - Wear safety goggles



Symbol - Observe instructions for use



Symbol - Wear ear protectors

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M102 (D50)	1014140	5
PML-M102 (D100)	1014141	5
PML-M102 (D200)	1014142	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M103 (D50)	1014143	5
PML-M103 (D100)	1014144	5
PML-M103 (D200)	1014145	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M104 (D50)	1014146	5
PML-M104 (D100)	1014147	5
PML-M104 (D200)	1014148	5

System marking

Stick-on mandatory signs, preprinted, with symbols

Printed cards

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Wear face shield



Symbol - Wear safety helmet

		Technical data			Technical data		
General data							
Material		PVC			PVC		
Temperature range	[°C]	-40 ... 90			-40 ... 90		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free			Silicone-free		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Mandatory sign, preprinted with "Wear face shield" symbol							
3-section, diameter: 50 mm	blue	PML-M105 (D50)	1014149	5			
3-section, diameter: 100 mm	blue	PML-M105 (D100)	1014150	5			
1-section, diameter: 200 mm	blue	PML-M105 (D200)	1014151	5			
Mandatory sign, preprinted with "Wear safety helmet" symbol							
3-section, diameter: 50 mm	blue				PML-M106 (D50)	1014152	5
3-section, diameter: 100 mm	blue				PML-M106 (D100)	1014153	5
1-section, diameter: 200 mm	blue				PML-M106 (D200)	1014154	5
Mandatory sign, preprinted with "Use face mask" symbol							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
Mandatory sign, preprinted with "Wear protective gloves" symbol							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						
Mandatory sign, preprinted with "Wear protective clothing" symbol							
3-section, diameter: 50 mm	blue						
3-section, diameter: 100 mm	blue						
1-section, diameter: 200 mm	blue						



Symbol - Use face mask



Symbol - Wear protective gloves



Symbol - Wear protective clothing

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Technical data
PVC -40 ... 90 DIN EN 61010-1 (VDE 0411-1) Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M107 (D50)	1014155	5
PML-M107 (D100)	1014156	5
PML-M107 (D200)	1014157	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M108 (D50)	1014158	5
PML-M108 (D100)	1014159	5
PML-M108 (D200)	1014160	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M109 (D50)	1014161	5
PML-M109 (D100)	1014162	5
PML-M109 (D200)	1014163	5

System marking

Stick-on mandatory signs, preprinted, with symbols

Printed cards

- Highly flexible, plasticized PVC labels which are ideal for uneven surfaces
- Suitable for indoor and outdoor use
- The mandatory signs conform to the ISO 7010 international standard



Symbol - Disconnect before starting work



Symbol - Wear conductive footwear

General data		Technical data			Technical data				
		Material	Temperature range [°C]	Wipe resistance	Components	Material	Temperature range [°C]	Wipe resistance	Components
		PVC	-40 ... 90	DIN EN 61010-1 (VDE 0411-1)	Silicone-free	PVC	-40 ... 90	DIN EN 61010-1 (VDE 0411-1)	Silicone-free
Description		Ordering data			Ordering data				
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.		
Mandatory sign , preprinted with "Disconnect before starting work" symbol									
3-section, diameter: 50 mm	blue	PML-M110 (D50)	1014164	5					
3-section, diameter: 100 mm	blue	PML-M110 (D100)	1014165	5					
1-section, diameter: 200 mm	blue	PML-M110 (D200)	1014166	5					
Mandatory sign , preprinted with "Wear conductive footwear" symbol									
3-section, diameter: 50 mm	blue				PML-M111 (D50)	1014167	5		
3-section, diameter: 100 mm	blue				PML-M111 (D100)	1014168	5		
1-section, diameter: 200 mm	blue				PML-M111 (D200)	1014169	5		
Mandatory sign , preprinted with "Wear head cover" symbol									
3-section, diameter: 50 mm	blue								
3-section, diameter: 100 mm	blue								
1-section, diameter: 200 mm	blue								
Mandatory sign , preprinted with "Wear safety shoes" symbol									
3-section, diameter: 50 mm	blue								
3-section, diameter: 100 mm	blue								
1-section, diameter: 200 mm	blue								



Symbol - Wear head cover



Symbol - Wear safety shoes

Technical data
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Technical data
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M112 (D50)	1014170	5
PML-M112 (D100)	1014171	5
PML-M112 (D200)	1014172	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-M113 (D50)	1014173	5
PML-M113 (D100)	1014174	5
PML-M113 (D200)	1014175	5

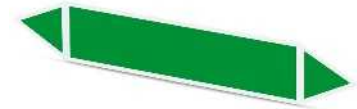
System marking

Stick-on pipeline markers, unmarked

Can be marked using:



Thermal transfer for rolls



Group 1 (water)

The color preprinted PML-T... pipeline markers supplied in rolls enable the custom marking of pipelines according to DIN 2403. The markers offer the following features:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Marking service: Phoenix Contact can custom-mark all markers according to your requirements

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Description	Color
Pipeline markers, green, group 1 (water), unprinted	
250 labels per roll, marker size: 26 x 280 mm	green
250 labels per roll, marker size: 52 x 560 mm	green
Pipeline markers, red, group 2 (steam), unprinted	
250 labels per roll, marker size: 26 x 280 mm	red
250 labels per roll, marker size: 52 x 560 mm	red
Pipeline markers, gray, group 3 (air), unprinted	
250 labels per roll, marker size: 26 x 280 mm	gray
250 labels per roll, marker size: 52 x 560 mm	gray
Pipeline markers, yellow/red, group 4 (combustible gases), unprinted	
250 labels per roll, marker size: 26 x 280 mm	yellow/red
250 labels per roll, marker size: 52 x 560 mm	yellow/red

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-T101 (26X280)R	1014229	1
PML-T101 (52X560)R	1014230	1

Ink ribbon, specially for US-PML..., US-EMLF...,

Length: 240 m, width: 110 mm
Ink ribbon, length: 300 m, width: 110 mm

Accessories

TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

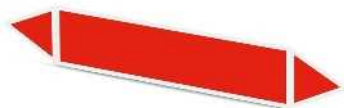
Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered

500 labels per roll, marker size: 13 x 13 mm
500 labels per roll, marker size: 25 x 25 mm

Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,

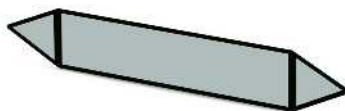
50-section, marker size: 13 x 13 mm
9-section, marker size: 25 x 25 mm

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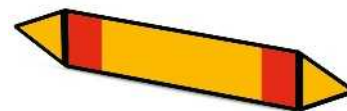
Group 2 (steam)

PRINTED
FOR YOU



Group 3 (air)

PRINTED
FOR YOU



Group 4 (combustible gases)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T102 (26X280)R	1014231	1
PML-T102 (52X560)R	1014232	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T103 (26X280)R	1014233	1
PML-T103 (52X560)R	1014234	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T104 (26X280)R	1014235	1
PML-T104 (52X560)R	1014236	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110	5145384	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110	5145384	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

System marking

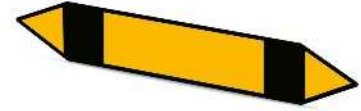
Stick-on pipeline markers, unmarked

Can be marked using:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied



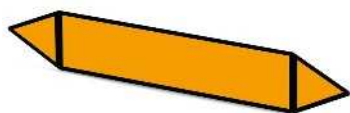
Thermal transfer for rolls



Group 5 (non-combustible gases)

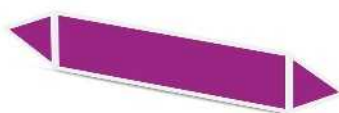
General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2		
Material		Polyester		
Temperature range		-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Pipeline markers, yellow/black, group 5 (non-combustible gases), unprinted				
250 labels per roll, marker size: 26 x 280 mm	yellow/black	PML-T105 (26X280)R	1014237	1
250 labels per roll, marker size: 52 x 560 mm	yellow/black	PML-T105 (52X560)R	1014238	1
Pipeline markers, orange, group 6 (acids), unprinted				
250 labels per roll, marker size: 26 x 280 mm	orange			
250 labels per roll, marker size: 52 x 560 mm	orange			
Pipeline markers, violet, group 7 (alkalis), unprinted				
250 labels per roll, marker size: 26 x 280 mm	violet			
250 labels per roll, marker size: 52 x 560 mm	violet			
Pipeline markers, brown/red, group 8 (combustible liquids), unprinted				
250 labels per roll, marker size: 26 x 280 mm	brown/red			
250 labels per roll, marker size: 52 x 560 mm	brown/red			
Ink ribbon, length: 300 m, width: 110 mm		Accessories		
Ink ribbon, specially for US-PML..., US-EMLF...,		THERMOMARK-RIBBON 110	5145384	1
Length: 240 m, width: 110 mm				
Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered				
500 labels per roll, marker size: 13 x 13 mm		PML-GHS100 (13X13)R	1014289	1
500 labels per roll, marker size: 25 x 25 mm		PML-GHS100 (25X25)R	1014290	1
Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,				
50-section, marker size: 13 x 13 mm		US-PML-GHS100 (13X13)	1014287	10
9-section, marker size: 25 x 25 mm		US-PML-GHS100 (25X25)	1014288	10

PRINTED
FOR YOU



Group 6 (acids)

PRINTED
FOR YOU



Group 7 (alkalis)

PRINTED
FOR YOU



Group 8 (combustible liquids)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2 Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T106 (26X280)R	1014239	1
PML-T106 (52X560)R	1014240	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T107 (26X280)R	1014241	1
PML-T107 (52X560)R	1014242	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-T108 (26X280)R	1014243	1
PML-T108 (52X560)R	1014244	1

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK-RIBBON 110	5145384	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

Accessories		
Type	Order No.	Pcs. / Pkt.
TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

System marking

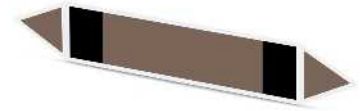
Stick-on pipeline markers, unmarked

Can be marked using:

- Finely perforated arrowheads enable the arrowheads which are not required to be easily removed
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- In combination with the PML-GHS hazardous substances labels, marking which conforms to the Ordinance on Hazardous Substances (GefStoffV) can be applied



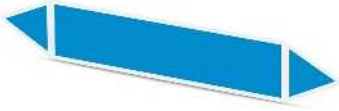
Thermal transfer for rolls



Group 9 (non-combustible liquids)

General data		Technical data		
Can be marked using		THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2		
Material		Polyester		
Temperature range	[°C]	-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Pipeline markers, brown/black, group 9 (non-combustible liquids), unprinted				
250 labels per roll, marker size: 26 x 280 mm	brown/black	PML-T109 (26X280)R	1014245	1
250 labels per roll, marker size: 52 x 560 mm	brown/black	PML-T109 (52X560)R	1014246	1
Pipeline markers, blue, group 0 (oxygen), unprinted				
250 labels per roll, marker size: 26 x 280 mm	blue			
250 labels per roll, marker size: 52 x 560 mm	blue			
Ink ribbon, specially for US-PML..., US-EMLF...,		Accessories		
Length: 240 m, width: 110 mm		TM-RIBBON 110-TC/TR WH	1014402	1
Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered				
500 labels per roll, marker size: 13 x 13 mm		PML-GHS100 (13X13)R	1014289	1
500 labels per roll, marker size: 25 x 25 mm		PML-GHS100 (25X25)R	1014290	1
Hazardous substances label, roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,				
50-section, marker size: 13 x 13 mm		US-PML-GHS100 (13X13)	1014287	10
9-section, marker size: 25 x 25 mm		US-PML-GHS100 (25X25)	1014288	10

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Group 0 (oxygen)

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-T110 (26X280)R	1014247	1
PML-T110 (52X560)R	1014248	1

Accessories

TM-RIBBON 110-TC/TR WH	1014402	1
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

System marking

UniSheet - stick-on hazardous substances labels, color preprinted, without symbols



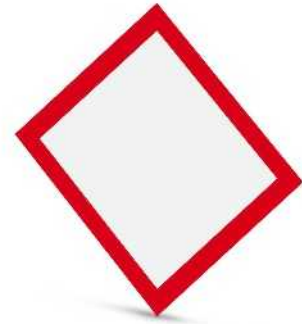
The unmarked US-PML-GHS hazardous substances labels on US cards allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and cost-effectively using the THERMOMARK CARD
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

Can be marked using:



Thermal transfer for sheets and cards



Unmarked

General data	
Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	

Description	Color
Hazardous substances label , roll, red/white, preprinted, can be marked with: THERMOMARK CARD, attachment type: adhered,	
50-section, marker size: 13 x 13 mm	red/white
9-section, marker size: 25 x 25 mm	red/white

Magazine , for THERMOMARK CARD..., for accommodating all US-materials
Ink ribbon , length: 300 m, width: 110 mm

Technical data	
THERMOMARK CARD	
Polyester	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-PML-GHS100 (13X13)	1014287	10
US-PML-GHS100 (25X25)	1014288	10

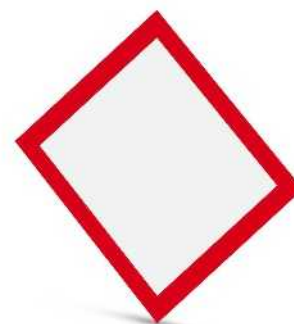
Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD-US-MAG1	5146451	1
THERMOMARK-RIBBON 110-TC	0801371	1

Stick-on hazardous substances labels, color preprinted, without symbols

Can be marked using:



Thermal transfer for rolls



Unmarked

The color preprinted PML-GHS...R hazardous substances labels on a roll allow you to create custom information signs. A variety of symbols are available in the CLIP PROJECT software. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The markers conform to the GHS international standard
- The format automatically ensures printing with a high level of positional accuracy
- The special packaging protects rolls that have already been started from the dirt found in industrial environments

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	

Description	Color
-------------	-------

Hazardous substances label , roll, red/white, preprinted, can be marked with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK X1.2, attachment type: adhered	
500 labels per roll, marker size: 13 x 13 mm	red/white
500 labels per roll, marker size: 25 x 25 mm	red/white

Ink ribbon , length: 300 m, width: 110 mm
--

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)

Ordering data

Type	Order No.	Pcs. / Pkt.
PML-GHS100 (13X13)R	1014289	1
PML-GHS100 (25X25)R	1014290	1

Accessories

THERMOMARK-RIBBON 110	5145384	1
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System marking

Stick-on hazardous substances labels, preprinted with symbol



The PML-GHS hazardous substances labels are available with various symbols and enable the additional custom marking of the PML-T pipeline markers according to the Ordinance on Hazardous Substances. The hazardous substances labels offer the following features:

- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The hazardous substances labels conform to the GHS international standard



Symbol - Explosive

General data	
Material	
Temperature range	[°C]
Wipe resistance	

Technical data	
Material	Polyester
Temperature range	-40 ... 150
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)

Description	Color
Hazardous substances label , preprinted with "Explosive" symbol	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white
Hazardous substances label , preprinted with "Flammable" symbol	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white
Hazardous substances label , preprinted with "Oxidizing" symbol	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white
Hazardous substances label , preprinted with "Pressurized gases" symbol	
35-section, marker size: 13 x 13 mm	red/white
12-section, marker size: 25 x 25 mm	red/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS101 (13X13)	1014269	5
PML-GHS101 (25X25)	1014270	5



Symbol - Flammable



Symbol - Oxidizing



Symbol - Pressurized gases

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS102 (13X13)	1014271	5
PML-GHS102 (25X25)	1014272	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS103 (13X13)	1014273	5
PML-GHS103 (25X25)	1014274	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS104 (13X13)	1014275	5
PML-GHS104 (25X25)	1014276	5

System marking

Stick-on hazardous substances labels, preprinted with symbol

- Printed cards
- High adhesive strength
- High temperature resistance
- Suitable for indoor and outdoor use
- The hazardous substances labels conform to the GHS international standard



Symbol - Corrosivity



Symbol - Toxic

		Technical data			Technical data		
General data							
Material		Polyester			Polyester		
Temperature range	[°C]	-40 ... 150			-40 ... 150		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Hazardous substances label , preprinted with "Corrosivity" symbol							
35-section, marker size: 13 x 13 mm	red/white	PML-GHS105 (13X13)	1014277	5			
12-section, marker size: 25 x 25 mm	red/white	PML-GHS105 (25X25)	1014278	5			
Hazardous substances label , preprinted with "Toxic" symbol							
35-section, marker size: 13 x 13 mm	red/white				PML-GHS106 (13X13)	1014279	5
12-section, marker size: 25 x 25 mm	red/white				PML-GHS106 (25X25)	1014280	5
Hazardous substances label , preprinted with "General symbol for hazardous substances"							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
Hazardous substances label , preprinted with "Hazardous to health" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						
Hazardous substances label , preprinted with "Hazardous to the environment" symbol							
35-section, marker size: 13 x 13 mm	red/white						
12-section, marker size: 25 x 25 mm	red/white						



Symbol - General symbol for hazardous substances



Symbol - Hazardous to health



Symbol - Hazardous to the environment

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Technical data
Polyester -40 ... 150 DIN EN 61010-1 (VDE 0411-1)

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS107 (13X13) PML-GHS107 (25X25)	1014281 1014282	5 5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS108 (13X13) PML-GHS108 (25X25)	1014283 1014284	5 5

Ordering data		
Type	Order No.	Pcs. / Pkt.
PML-GHS109 (13X13) PML-GHS109 (25X25)	1014285 1014286	5 5

System marking

UniSheet - stick-on combi labels, unprinted

Can be marked using:



Thermal transfer for sheets and cards

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Unmarked or marked according to customer specifications

The unmarked US-EMLF ... combi labels on US ... cards allow you to create custom information signs. A variety of symbols which conform to ISO 7010 are available in the CLIP PROJECT software. The markers offer the following features:

- High adhesive strength
- Suitable for indoor and outdoor use
- The markers, which are supplied in uniform sheets, can be marked quickly, easily, and inexpensively
- The format automatically ensures printing with a high level of positional accuracy
- The perforated markers are easy to separate

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
-40 ... 90
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive labels, 2-section, lettering field size: 104 x 70 mm				
	white	US-EMLF (104X70)	1014294	10
	yellow	US-EMLF (104X70) YE	1014295	10
	blue	US-EMLF (104X70) BU	1014296	10
UniSheet, with self-adhesive labels, 1-section, lettering field size: 104 x 140 mm				
	white	US-EMLF (104X140)	1014291	10
	yellow	US-EMLF (104X140) YE	1014292	10
	blue	US-EMLF (104X140) BU	1014293	10

Magnetic labels, unprinted

Can be marked using:



Thermal transfer for rolls



Unmarked or marked according to customer specifications

The PMM magnetic labels supplied in rolls represent an individual and flexible marking solution, e.g., for stock marking. A variety of symbols, linear and 2D codes are available in the CLIP PROJECT software. The magnetic labels offer the following features:

- High adhesive strength
- Magnetic tape coated with polyester foil
- The flexible magnetic tape will also adhere to round objects with a radius of 12 mm and higher
- The format automatically ensures printing with a high level of positional accuracy
- When used in conjunction with high-quality ink ribbons, a resistant form of marking is produced, which is even suitable for harsh environments
- The special packaging protects rolls that have already been started from the dirt found in industrial environments
- Easy to assemble with the THERMOMARK CUTTER

General data

Can be marked using	
Material	
Temperature range	[°C]
Wipe resistance	

Technical data

THERMOMARK ROLL • THERMOMARK X1.1 • THERMOMARK X1.2
Magnetic tape
-30 ... 55
DIN EN 61010-1 (VDE 0411-1)

Description

Description	Color
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 20 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 25 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 30 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 40 mm	white silver yellow
Magnetic foil as continuous media, anisotropic, 1 roll = 15 m, label height: 50 mm	white silver yellow

Ordering data

Type	Order No.	Pcs. / Pkt.
PMM (EX20)R	1014303	1
PMM (EX20)R SR	1014304	1
PMM (EX20)R YE	1014305	1
PMM (EX25)R	1014306	1
PMM (EX25)R SR	1014307	1
PMM (EX25)R YE	1014308	1
PMM (EX30)R	1014309	1
PMM (EX30)R SR	1014310	1
PMM (EX30)R YE	1014311	1
PMM (EX40)R	1014312	1
PMM (EX40)R SR	1014313	1
PMM (EX40)R YE	1014314	1
PMM (EX50)R	1014315	1
PMM (EX50)R SR	1014316	1
PMM (EX50)R YE	1014317	1

Ink ribbon, length: 300 m, width: 110 mm

Accessories

THERMOMARK-RIBBON 110	5145384	1
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Hand tools - TOOL fox

The TOOL fox range of tools provides processing and measuring tools for all electrical engineering applications.

The ergonomically designed tools for cutting, stripping, crimping, screwing, and testing impress with their optimum handling and quality. Specially hardened tool steels ensure maximum durability.

Cutting machines, stripping machines, and crimping machines are available which can be used to automate steps.

A wide range of connectors rounds off the product range.

Product range overview

Hand tools	358
CUTFOX ... cutting tools and UNIFOX ... universal tools	
Cable cutters	360
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Crimp pliers for ferrules	388
Crimping pliers for ring cable and tube lugs	394
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Crimping pliers for slip-on sleeves	400
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Tool sets	430
Customer-specific hand tools and tool sets	437
Connectors	444



Professional cutting



Professional stripping



Professional crimping



An ideal cable cutter is available for every application. The various versions enable professional processing of conductors and cables with a diameter of up to 100 mm. All parts of the cable cutters that are subject to particular strain are tempered and specially hardened.



Profile cutters are available for rapid processing of DIN rails and cable ducts without chips or burrs. An optional hydraulic unit can be attached to convert manual DIN-rail cutters into automatic ones.



The stripping tools can strip all types of conductors and cables quickly, precisely and reliably. They adapt automatically to the conductor cross section concerned.



CRIMPFOX 4 IN 1 are multi-functional crimping pliers for processing conductors and ferrules. A variety of work steps can be performed with just a single tool: cutting, stripping, twisting, and crimping.



The product innovation for switchgear manufacturing – the CRIMPHANDY, a battery-operated, portable hand-held machine. It strips and crimps the conductor in under two seconds, resulting in time savings of 75 percent.



The extensive range of professional crimping pliers can be used to process a variety of contact types with a cross section of up to 120 mm². The innovative design and ergonomically shaped handles reduce the forces required by up to 25 percent.



With their interchangeable dies, the CRIMPFOX-M universal crimping pliers can be used to process all kinds of contacts. The dies can be changed quickly and easily without the need for additional tools.



With their precise torque-setting feature, the torque and cordless screwdrivers are the perfect complement to the Phoenix Contact range of screw terminal blocks. The wide range of hardened BIT screwdriver inserts makes the products suitable for universal use.



Our multimeters, current pliers, and voltage testers are high-quality measuring tools, which have been tested and approved in accordance with national and international standards.

Hand tools

CUTFOX cable cutters

- CUTFOX ... cable cutters for professional cutting results
- Suitable for conductors with a max. diameter of 18 mm
- Ergonomic grip design to eliminate fatigue when working
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened



Up to a maximum conductor diameter of 12 mm



Up to a maximum conductor diameter of 18 mm

Description
Cable cutter , for copper and aluminum up to 12 mm diameter (up to 35 mm ²), size: 165 mm
Cable cutter , angled, for copper and aluminum up to 18 mm diameter (up to 50 mm ²), size: 180 mm
Electrician's scissors , high cutting performance, thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 12	1212128	1
CUTFOX-ES	1212621	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 18	1212129	1

CUTFOX one-handed ring cable cutters

- CUTFOX ... one-handed ring cable cutters for professional cutting results
- Extremely robust design
- Minimum deformation of the conductors and cables
- Can be released in all positions
- Superb cutting quality
- Little force needed due to ratchet function



Up to a maximum conductor diameter of 50 mm, steel-armored



Up to a maximum conductor diameter of 45 mm

Description
Ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 50 mm, for steel-armored CU/AL cables, for stranded steel cables up to a diameter of 12 mm, equipped with needle bearings, size: 260 mm
Ring cable cutter , with ratchet function, for copper and aluminum up to 45 mm diameter (up to 300 mm ²), size: 260 mm
Ring cable cutter , with ratchet function, for copper and aluminum up to 52 mm diameter (up to 300 mm ²), size: 325 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 50 STEEL	1212526	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 45	1212132	1
CUTFOX 52	1212133	1

CUTFOX cable cutters

- CUTFOX ... cable cutters for professional cutting results
- With ratchet function for minimum effort
- All parts of the cable cutters that are subject to particular strain are tempered or specially hardened
- Ideal in tight workspaces
- Adjustable screw joint
- Can be released in all positions
- Extremely robust



Up to a maximum conductor diameter of 25 mm



Up to a maximum conductor diameter of 35 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 25	1212130	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 35	1212131	1

Description
Cable cutter , with ratchet function, for copper and aluminum up to 25 mm diameter (up to 185 mm ²), size: 245 mm
Cable cutter , with ratchet function, for copper and aluminum up to 35 mm diameter (up to 300 mm ²), size: 245 mm

CUTFOX two-handed ring cable cutters

- CUTFOX ... two-handed ring cable cutters for professional cutting results
- Suitable for conductors with a diameter of up to 100 mm
- With ratchet function for minimum effort
- Can be released in all positions
- Superb cutting quality
- Extremely robust design
- Lowest possible deformation of conductors and cables



Up to a maximum conductor diameter of 62 mm



Up to a maximum conductor diameter of 100 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 62	1212134	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 100	1212135	1

Description
Two-hand ring cable cutter , with ratchet function, for copper and aluminum up to 62 mm diameter (up to 750 mm ²), size: 410 mm
Two-hand ring cable cutter , with ratchet function, for copper and aluminum up to 100 mm diameter (up to 1400 mm ²), size: 610 mm

Hand tools

Cutting tools for special applications

- The CUTFOX-FBS cutting tool is suitable for cutting out individual bars from FBS ... plug-in bridges
- Screw-on bridges can be cut to length with the CUTFOX FB without crushing them
- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for long-term stable cutting performance



Front cutting tool for cutting out plug-in and insertion bridges



Cutting tool for screw-on bridges

ERC

ERC

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cutting tool , for separating individual bridge bars from FBS ... jumpers and EB ... insertion bridges, size: 260 mm	CUTFOX-FBS	1212124	1			
Bridge cutting tool , for cutting FBI ... fixed bridges to length, size: 165 mm				CUTFOX FB	1205985	1
Cable cutter , precision blade with macro-notching, for copper and aluminum up to 50 mm ² , VDE 1000 V AC/1500 V DC tested, size: 160 mm						
Cable cutter , precision blade with macro-notching, for copper and aluminum up to 70 mm ² , VDE 1000 V AC/1500 V DC tested, size: 210 mm						
Cable cutter , for laminated busbars/ribbed tape measuring up to 6 x 16 x 0.8 mm, copper and aluminum cables with a diameter of up to 50 mm, VDE 1000 V AC, 1500 V DC, size: 210 mm						
Diagonal cutter , with optimized leverage, VDE 1000 V AC/1500 V DC tested, size: 160 mm						
Power diagonal cutter , with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested, size: 200 mm						
Diagonal cutter , with optimized leverage, VDE 1000 V AC/1500 V DC tested, size: 130 mm						



1000 V AC /
1500 V DC

Cable cutter for conductors with a diameter of up to 25 mm (VDE)



1000 V AC /
1500 V DC

Cable cutter for conductors and ribbed tape with a diameter of up to 50 mm (VDE)



1000 V AC /
1500 V DC

Diagonal cutter, also suitable for piano wire (VDE)



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CUTFOX 16 VDE	1212126	1						
CUTFOX 25 VDE	1212127	1						
			CUTFOX-LB VDE	1212527	1			
						CUTFOX-S VDE	1212207	1
						CUTFOX-SP VDE	1212206	1
						CUTFOX-S VDE M	1212830	1

Hand tools

CUTFOX bolt cutter

new

- The CUTFOX-SP BOLT VDE cutting tool is suitable for precise cutting of bolts, nails, rivets, steel wire, or similar hard materials
- VDE-tested cutting tools made from special high-grade tool steel
- Inductively hardened blades for permanently stable cutting performance



		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Power diagonal cutter , with optimized leverage, also suitable for bolts and piano wire, VDE 1000 V AC/1500 V DC tested, size: 200 mm		CUTFOX-SP BOLT VDE	1212831	1

CUTFOX cutting tools, angled design

new

new

- CUTFOX-SE LM electricians diagonal cutter with stripping and cutting range
- Ergonomic grip design to eliminate fatigue when working
- All parts of the diagonal cutters that are subject to particular strain are tempered or specially hardened



		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Diagonal cutter , angled design, size:180 mm		CUTFOX-SE	1212832	1			
Electricians diagonal cutter , angled design, with stripping, crimping, and bending function. Screw pincers up to M3.5/M4, size: 180 mm					CUTFOX-SE LM	1212833	1

UNIFOX universal tools

- UNIFOX ... VDE-totally-insulated combination pliers in straight and angled versions
- Ergonomic grip design to eliminate fatigue when working
- Excellent transmission ratios for excellent gripping and cutting performance
- Noticeably less force required on the part of the user



Combination pliers (VDE), straight



Combination pliers (VDE), angled

Ordering data			Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Combination pliers, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 180 mm	black	UNIFOX-C VDE	1212202	1			
Combination pliers, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 165 mm	black	UNIFOX-C VDE M	1212834	1			
Combination pliers, angled design, with opening spring and locking device, cross-notched gripping surface, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 200 mm	black				UNIFOX-CE VDE	1212203	1

UNIFOX universal tools

- Individually tested safety tools according to DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



Needle-nose pliers (VDE), straight



Needle-nose pliers (VDE), curved and angled

Ordering data			Ordering data				
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Needle-nose pliers with cutter, notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 170 mm	black	UNIFOX-P VDE	1212204	1			
Needle-nose pliers with cutter, angled 45°, notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 170 mm	black	UNIFOX-PC VDE	1212205	1			
Needle-nose pliers, angled design, with opening spring and locking device, finely notched gripping surface, stripping possible for 1.5 mm ² and 2.5 mm ² , integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested, size: 200 mm	black				UNIFOX-PE VDE	1212529	1

Hand tools

UNIFOX universal tools

- UNIFOX ... VDE-totally-insulated flat-nose, round-nose, and water pump pliers
- Notched grip areas
- Ergonomic grip design to eliminate fatigue when working
- Excellent transmission ratios for optimum gripping performance
- Forged die hardened in oil for maximum durability



Flat-nose pliers (VDE)



Water pump pliers

Description		Color	Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.			
Flat-nose pliers, finely notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 160 mm			UNIFOX-F VDE	1212363	1			
Round-nose pliers, finely notched gripping surface, VDE 1000 V AC/1500 V DC tested, size: 160 mm		black	UNIFOX-R VDE	1212364	1			
Water pump pliers, with groove joint, gripping surfaces with dual notching, acc. to VDE ISO 8976, size: 240 mm		black	UNIFOX-WP	1212365	1			

UNIFOX cable binder tools for plastic and high-grade steel cable binders



- Ergonomic tool for attaching and detaching cable binders in a single operation
- The infinitely adjustable tension force is indicated by a scale in the handle area
- When the tension force is reached, the remainder is automatically severed for a flush finish



Description		Ordering data		
Type	Order No.	Pcs. / Pkt.		
Cable binder pliers, for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm				
Ergonomically designed grip with comfortable tension force adjustment				
Cable binder tool, for steel cable binders with a width of up to 7.9 mm, material thickness of up to 0.3 mm				
UNIFOX-CT 4,8	1212475	1		
UNIFOX-CT 4,8P	1212609	1		
UNIFOX-CT M 7,9	1212610	1		

UNIFOX screw pliers

- Screw wrench and pliers in one: zero-play grip and secure screwing of screws and nut areas
- Smooth jaws prevent the usual damage to screws and nuts from wrenches and pipe wrenches
- With quick-snap ratchet infeed for rapid adjustment to the workpiece without push button



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Screw pliers, with rapid adjustment for wrench size 10 - 36 mm, 260 mm	UNIFOX-WRENCH	1212835	1

Hand tools

UNIFOX universal tools

- Compact, ergonomically shaped pliers
- 3 inserts for rivet diameter of 2.4 – 3.2 mm, 4 mm, and 4.8 – 5.0 mm
- Special rivets are available for fixing RW... and UW... high-current panel feed-through terminal blocks that are specifically designed for terminal blocks



Blind rivet pliers



Blind riveting with diameters of 2.4 to 5 mm

ERC

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Blind rivet pliers	black	UNIFOX-RVT M	1212476	1			
Rivet , aluminum/steel, rivet diameter/length					RVT-AL/ST 2,4L/8	3240548	500
2.4/8 mm, for UW 4... terminal blocks	silver				RVT-AL/ST 3/6	3240504	500
3/6 mm	silver				RVT-AL/ST 3/8	3240505	500
3/8 mm	silver				RVT-AL/ST 3/10	3240506	500
3/10 mm	silver				RVT-AL/ST 3/12	3240507	500
3/12 mm, for UW 10..., UW 16..., and RW 5... terminal blocks	silver				RVT-AL/ST 3,2/6	3240509	500
3.2/6 mm	silver				RVT-AL/ST 3,2/8	3240510	500
3.2/8 mm	silver				RVT-AL/ST 3,2/10	3240511	500
3.2/10 mm	silver				RVT-AL/ST 3,2/12	3240512	500
3.2/12 mm	silver				RVT-AL/ST 4/6	3240513	500
4/6 mm	silver				RVT-AL/ST 4/8	3240514	500
4/8 mm	silver				RVT-AL/ST 4/10	3240515	500
4/10 mm	silver				RVT-AL/ST 4/12	3240516	500
4/12 mm	silver				RVT-AL/ST 4/14	3240517	500
4/14 mm, for UW 25... and RW 8... terminal blocks	silver				RVT-AL/ST 4,8/6	3240518	500
4.8/6 mm	silver				RVT-AL/ST 4,8/8	3240519	500
4.8/8 mm	silver				RVT-AL/ST 4,8/10	3240520	500
4.8/10 mm	silver				RVT-AL/ST 4,8/12	3240521	500
4.8/12 mm	silver				RVT-AL/ST 4,8/14	3240553	500
4.8/14 mm	silver				RVT-AL/ST 4,8/16	3240522	500
4.8/16 mm	silver						
		Accessories			Accessories		
Rivet nozzle , long, specially designed for 3240548 rivet		UNIFOX-RVT M/BIT 2,4L	1212477	1			

Cable duct cutter



- Easy, burr-free cutting with minimum effort, thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With spring reset
- 45° limit stop
- 75 mm cutting width



Dimensions	
	[mm]

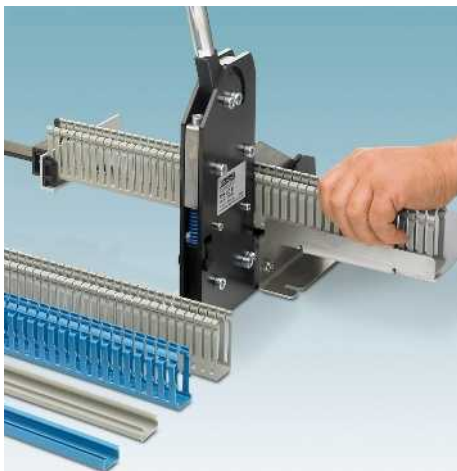
General data	
Weight	[kg]

Description	Color
Cable duct cutter	black

Technical data		
Width	Length	Height
-	245	-
0.43		

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-CD	1212474	1

Cable duct cutters



- Leverage and special cutting geometry enables easy, burr-free cutting with minimum effort
- Grip protection for safety
- Metric measuring rail with adjustable limit stop
- 125 mm cutting width
- Material thickness of up to 2.5 mm



Dimensions	
	[mm]

General data	
Length of the measuring bar	[mm]
Length of the hand lever	[mm]

Description	Color
Cable duct cutters	black

Replacement blade, for PPS CD M	
Replacement counter support (grip protection), for PPS CD M	

Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes	
--	--

Technical data		
Width	Length	Height
285	280	290

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS CD M	1207569	1

Accessories		
PPS CD BLADE	1207572	1
PPS CD M COHO	1208995	1
PPS TABLE	1206285	1

Hand tools

Profile cutters



DIN rail cutter

- The PPS BASIC I/M is the lightweight version of the profile cutters. It can process the common EN DIN rails NS 35/15, NS 35/7,5 and NS 15, and the NLS-CU 3/10 neutral busbar
- The PPS STANDARD ... and PPS CLASSIC ... can be equipped with two stamping bits for round holes or elongated holes
- The PPS CLASSIC ... is the best choice if hole formats are changed on a frequent basis. By simply folding open the upper part of the PPS..., the stamping bits can be changed in no time at all

Dimensions	
	[mm]
General data	
Weight	[kg]
Length of the measuring bar	[mm]
Length of the hand lever	[mm]

Technical data		
Width	Length	Height
150	60	180
8.3	1000	590

Description	Color
Profile cutter , for cutting standard DIN rails to length, NS 15/NS 35/7,5/NS 35/15 and for cutting the NLS-CU 3/10 neutral busbar to length, with inch/metric measuring rail	black
Profile cutter , for cutting and stamping holes in standard DIN rails, NS 15/NS 32/NS 35/7,5/NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, can accommodate 2 stamping bits, with metric measuring rail, supplied without stamping bits	black
Same as before, but with inch/metric measuring rail	black
Profile cutter , for cutting and stamping holes in standard DIN rails, NS 15/NS 32/NS 35/7,5/NS 35/15, and for cutting the NLS-CU 3/10 neutral busbar to length, can accommodate 2 stamping bits, stamping bits are easily interchangeable, with metric measuring rail, supplied without stamping bits	black
Same as before, but with inch/metric measuring rail	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS BASIC I/M	1207585	1

Stamping insert , for elongated holes, longitudinal: 3.5 x 12 mm 4.5 x 12 mm 5.5 x 12 mm 6.5 x 15 mm
Stamping insert , for elongated holes, traverse: 3.5 x 12 mm 4.5 x 12 mm 5.5 x 12 mm 6.5 x 15 mm
Stamping bit , for bore holes 3.8 mm Ø 4.3 mm Ø 5.3 mm Ø 6.4 mm Ø 7.0 mm Ø 8.4 mm Ø
Hydraulic cylinder , for connection to an existing hydraulic system, operating pressure of 160 – 220 bar, G 1/4" connection thread, with spring reset
Workbench , with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes

Accessories		
Type	Order No.	Pcs. / Pkt.
PPS TABLE	1206285	1



DIN rail cutter with bore hole die



DIN rail cutter with piercer and quick change mechanism

Technical data		
Width	Length	Height
180	100	220
19	1000	1000

Technical data		
Width	Length	Height
250	100	230
19	1000	1000

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS STANDARD M	1206175	1
PPS STANDARD I/M	1206230	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS CLASSIC M	1206243	1
PPS CLASSIC I/M	1206256	1

Accessories		
PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1
PPS HYDRAULIC CYL	1208924	1
PPS TABLE	1206285	1

Accessories		
PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,5X15)L	1202593	1
PPS-ST (3,5X12)Q	1203550	1
PPS-ST (4,5X12)Q	1203547	1
PPS-ST (5,5X12)Q	1203411	1
PPS-ST (6,5X15)Q	1203408	1
PPS-ST (3,8)	1204892	1
PPS-ST (4,3)	1202616	1
PPS-ST (5,3)	1202629	1
PPS-ST (6,4)	1202632	1
PPS-ST (7,0)	1204889	1
PPS-ST (8,4)	1202726	1
PPS TABLE	1206285	1

Hand tools

MICROFOX electronics pliers

- Various head shapes, even for areas that are difficult to access
- Precision-ground for exact cutting applications with minimum effort
- Mirror-polished and oiled metal surfaces
- Additional inductive hardened cutting for long-term, stable cutting performance

Notes:
 Technical data regarding cutting capacity, see phoenixcontact.net/products



Diagonal cutter, with chamfer



Front cutter

Description
Electronic diagonal cutter , round head, with chamfer, with opening spring
Electronic diagonal cutter , tapered head, angled (21°), without chamfer, with opening spring
Electronic diagonal cutter , tapered head, without chamfer, with opening spring, non-reflective phosphate-treated surface, punched version
Electronic front cutter , without chamfer, with opening spring
Electronic front cutter , 20° angle, without chamfer, with opening spring

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-SB	1212489	1
MICROFOX-SP	1212488	1
MICROFOX-SP-1	1212487	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E	1212494	1
MICROFOX-EO	1212495	1

MICROFOX electronic pliers

- Ergonomically designed two-component grip for fatigue-proof and non-slip use
- Opening spring for uniform, smooth opening
- Through-connected joint for permanent stability and optimum distribution of force
- Smooth grip to prevent damage to components when gripping and bending



Needle-nose pliers



Flat/round-nose pliers

Description
Electronic needle-nose pliers , smooth grip, with opening spring
Electronic needle-nose pliers , 45° angle, smooth grip, with opening spring
Electronic flat-nose pliers , smooth grip, with opening spring
Electronic round-nose pliers , smooth grip, with opening spring

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P	1212491	1
MICROFOX-PC	1212492	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F	1212493	1
MICROFOX-R	1212490	1

MICROFOX ESD electronics pliers

- Mirror-polished and phosphate-treated metal surfaces for optimum corrosion protection and no glare when working
- Various head shapes, even for areas that are difficult to access
- Screwed precision-joint
- Precision-ground for exact cutting applications



Notes:
 Technical data regarding cutting capacity, see phoenixcontact.net/products

Description
ESD electronic diagonal cutter, round head, without chamfer, with opening spring
ESD electronic front cutter, without chamfer, with opening spring

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-S ESD	1212480	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1

MICROFOX ESD electronic pliers

- Special conductive, ESD-compliant plastics according to, for example: DIN EN 61340-5
- Ergonomically designed two-component handles for fatigue-proof and non-slip use
- Opening spring for uniform, smooth opening
- Smooth grip to prevent damage to components when gripping and bending



Description
ESD electronic needle-nose pliers, smooth grip, with opening spring
ESD electronic needle-nose pliers, 45° angle, smooth grip, with opening spring
ESD electronic flat-nose pliers, smooth grip, with opening spring
ESD electronic round-nose pliers, smooth grip, with opening spring

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P ESD	1212482	1
MICROFOX-PC ESD	1212483	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F ESD	1212484	1
MICROFOX-R ESD	1212481	1

Hand tools

WIREFOX stripping tools

- Ergonomically shaped pliers
- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Practical integrated wire cutter
- Flexible, adjustable conductor limit stop
- The blade cartridges can be replaced quickly and easily and can be combined with one another



0.08 - 2.5 mm² conductor cross section



Conductor cross section of 0.1 - 4 mm² for special conductors

ERIC

		Technical data			Technical data		
Conductor/cable stripping range							
Conductor / cable	[mm ²] / AWG	0.08 - 2.5 / 28 - 12			0.1 - 4 / 28 - 12		
Stripping length up to ...	[mm]	15			18		
Wire cutter solid // stranded	[mm ²] / AWG	2.5 / 14 // 6 / 10			1.5 / 16 // 10 / 8		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Stripping tool , angled design, for cables and conductors with a cross section of 0.08 mm – 2.5 mm ² , self-adjusting, stripping length of up to 15 mm, cutting capacity: solid up to 2.5 mm ² , stranded up to 6 mm ²							
	black	WIREFOX 2,5	1212368	1			
Stripping tool , angled shape, for cables and conductors (specifically also intended for rubber and other kinds of special insulation) from 0.1 mm – 4 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²							
	Black/green				WIREFOX-E 4	1212704	1
Stripping tool , angled shape, for cables and conductors (specifically also intended for short-circuit-proof cables) from 1.5 mm – 6 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²							
	Black/green						
Stripping tool , angled design, for cables and conductors from 0.02 mm – 10 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²							
	Black/green						
Stripping tool , angled design, for cables and conductors from 4 mm – 16 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²							
	Black/green						
		Accessories			Accessories		
Replacement blade cartridge		WIREFOX 2,5/SB	1212369	1	WIREFOX 4/SB	1212151	1
Spare limit stop		WIREFOX 2,5/WS	1212370	1			



Conductor cross section of 1.5 - 6 mm² for short-circuit-proof cables



0.02 - 10 mm² conductor cross section



4 - 16 mm² conductor cross section

Technical data
1.5 - 6 / 16 - 8
18
1.5 / 16 // 10 / 8

Technical data
0.02 - 10 / 34 - 8
18
1.5 / 16 // 10 / 8

Technical data
4 - 16 / 12 - 5
18
1.5 / 16 // 10 / 8

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-E 6SC	1212705	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-E 10	1212706	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-E 16	1212707	1

Accessories		
WIREFOX 6SC/SB	1212314	1

Accessories		
WIREFOX 10/SB	1212152	1

Accessories		
WIREFOX 16/SB	1212153	1

WIREFOX stripping tools



- Ergonomically shaped pliers
- Anti-slip handle design provides a safe and comfortable grip
- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Practical integrated wire cutter
- Highly adjustable limit stop for the stripping length
- The blade cartridges can be replaced quickly and easily and can be combined with one another



Conductor cross section 0.1 - 4 mm² for special conductors

ERC

Conductor/cable stripping range	
Conductor / cable	[mm ²] / AWG
Stripping length up to ...	[mm]
Wire cutter solid // stranded	[mm ²] / AWG

Technical data	
Conductor / cable	0.1 - 4 / 28 - 12
Stripping length up to ...	18
Wire cutter solid // stranded	1.5 / 16 // 10 / 8

Description	Color
Stripping tool , for cables and conductors (specifically also intended for rubber and other kinds of special insulation) with a cross section of 0.1 – 4 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green
Stripping tool , for lines and conductors (specially for short-circuit-proof lines) of 1.5 - 6 mm ² , self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green
Stripping tool , for 0.02 - 10 mm ² cables and conductors, self-adjusting, stripping length up to 18 mm, cutting capacity: solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green
Stripping tool , for wires and conductors of 4 - 16 mm ² , self-aligned, stripping length up to 18 mm, cutting capacity: Solid up to 1.5 mm ² , stranded up to 10 mm ²	Black/green

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 4	1212156	1

Replacement blade cartridge

Accessories		
WIREFOX 4/SB	1212151	1



Conductor cross section of 1.5 - 6 mm² for short-circuit-proof cables



0.02 - 10 mm² conductor cross section



4 - 16 mm² conductor cross section

ERC

ERC

ERC

Technical data		
1.5 - 6 / 16 - 8		
18		
1.5 / 16 // 10 / 8		

Technical data		
0.02 - 10 / 34 - 8		
18		
1.5 / 16 // 10 / 8		

Technical data		
4 - 16 / 12 - 5		
18		
1.5 / 16 // 10 / 8		

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

WIREFOX 6SC	1212158	1
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WIREFOX 10	1212150	1
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WIREFOX 16	1212155	1
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Accessories		
WIREFOX 6SC/SB	1212314	1

Accessories		
WIREFOX 10/SB	1212152	1

Accessories		
WIREFOX 16/SB	1212153	1

Hand tools

WIREFOX stripping tools

- WIREFOX ... stripping pliers feature an automatic adjustment mechanism for a wide range of different types of insulation and conductor sizes
- Special blade geometries for various applications
- Precise and clean stripping results
- Any stripping lengths possible, thanks to the special design of the pliers



For sensor/actuator cables (SAC cables)



For both shielded and unshielded cables

		ERC			ERC		
		Technical data			Technical data		
Conductor/cable stripping range							
Conductor / cable		[mm ²] / AWG			6 - 16 / 10 - 5		
					- / -		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Stripping pliers , for cables and conductors with a cross section of 6 – 16 mm ² , self-adjusting, any stripping length, also suitable for sensor/actuator cables	black	WIREFOX 16-1	1212157	1			
Stripping pliers , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, for diameters from 4.4 mm to 7 mm, any stripping length	black	WIREFOX SAC	1212623	1			
Stripping pliers , for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from 3.2 mm to 4.4 mm diameter, any stripping length	black	WIREFOX SAC-1	1212757	1			
Stripping pliers , for removing jackets from cables for cable cutouts, cable tap-offs, and shield connections with a diameter of 8 - 9 mm, insulation thickness of up to 1.2 mm, stripping lengths of 20 mm and above	black				WIREFOX-D SHIELD	1212172	1
Stripping pliers , for 0.75 - 2.5 mm ² flat cables up to 15 mm wide, any stripping length	black						
Stripping pliers , for AS interface flat wires, any desired stripping length	black						
Stripping pliers , for stripping conductors with a cross section of up to 10 mm ² , VDE-tested	black						
Multifunction stripping tool , for removing the jacket from cables with a diameter of 8 to 13 mm, for stripping cables with a cross section of 0.2 to 10 mm ² , with full-fledged diagonal cutter, VDE 1000 V AC/1500 V DC tested	black						
		Accessories			Accessories		
Spare knife		WIREFOX 16-1/SB	1204944	1			

WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Possible to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm
- The blades are precision-ground and are designed for long-term stable use
- Quick, easy, and reliable to use



Conductor diameter of 2.5 - 11 mm

ERC

Description	Color
Stripping tool , for stripping multicore signal, control and fiberglass wires of 2.5 - 11-mm-Ø, insulation thickness up to 1 mm	black
Stripping tool , for stripping installation wires with 8 - 13 mm-Ø, for example, NYM 3x1.5 mm ² to NYM 5x2.5 mm ² , single-wire stripping, 0.2 - 4 mm ² , with blade for lateral cutting and extendable knife	black
Stripping tool , for stripping wires (especially fiber optics wires) of 4 - 16-mm-Ø	black
Stripping tool , for stripping wires of 8 - 28-mm-Ø	black
Stripping tool , for stripping conductors of 4.5 - 40-mm-Ø, insulation strength up to 4.5 mm, swiveling knife for round, longitudinal and spiral cuts	black

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX-D 11	1212160	1

Accessories

Spare knife	WIREFOX-D 11/SB	1212312	1
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Conductor diameter of 8 - 13 mm



Conductor diameter of 4.5 - 40 mm

ERC

ERC

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 13	1212162	1

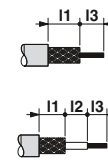
Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 16	1212173	1
WIREFOX-D 28	1212174	1
WIREFOX-D 40	1212161	1

Accessories		

Accessories		
WIREFOX-D 40/SB	1212313	1

Hand tools

WIREFOX stripping tools



For coaxial cables, conductor diameter of 2.5 - 7.6 mm

- Large selection of precision stripping tools
- The right tool for every application
- Possible to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm
- Easy to use
- Use of high-quality components for durability

ERC

Description	Color
Stripping tool , for coaxial cables from 2.5 - 7.6 mm Ø, I3 = variable	
2-stage, setting dimension I1 = 6.0 mm	black
2-stage, setting dimension I1 = 9.2 mm	black
2-stage, setting dimension I1 = 12 mm	black
2-stage, setting dimension I1 = 6.8 mm	black
3-stage, setting dimension I1 = 5.5 mm, I2 = 5.5 mm	black
3-stage, strip-off dimension I1 = 8.3 mm, I2 = 2.7 mm	black
3-stage, setting dimension I1 = 6.0 mm, I2 = 6.0 mm	black
3-stage, strip-off dimension I1 = 6.8 mm, I2 = 2.5 mm	black
3-stage, strip-off dimension I1 = 7.5 mm, I2 = 3.5 mm	black
Stripping tool , for standard 2.5, 4, and 6 mm ² solar cables, with 15 mm length stop, for SUNCLIX field connectors	black
Stripping tool , for 2.5 - 6 mm ² solar cables, 8.5 mm stripping length, for MC3, MC4 and SOLARLOK contacts	black
Stripping tool , for CATV type F, stripping length: 6.35 mm	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D CX-1	1212163	1
WIREFOX-D CX-2	1212164	1
WIREFOX-D CX-3	1212165	1
WIREFOX-D CX-4	1212166	1
WIREFOX-D CX-5	1212167	1
WIREFOX-D CX-6	1212168	1
WIREFOX-D CX-7	1212169	1
WIREFOX-D CX-8	1212170	1
WIREFOX-D CX-9	1212171	1

Spare knife

Accessories		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D CX-1/SB	1212303	1
WIREFOX-D CX-2/SB	1212304	1
WIREFOX-D CX-3/SB	1212305	1
WIREFOX-D CX-4/SB	1212306	1
WIREFOX-D CX-5/SB	1212307	1
WIREFOX-D CX-6/SB	1212308	1
WIREFOX-D CX-7/SB	1212309	1
WIREFOX-D CX-8/SB	1212310	1
WIREFOX-D CX-9/SB	1212311	1



new



For solar cables, conductor cross section of 2.5 - 6 mm²

For coaxial cables, RG 59 and RG 6

ERIC

Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WIREFOX-D SR 6-1	1212511	1			
WIREFOX-D SR 6	1212507	1			
			WIREFOX-D CX 6,35	1212733	1
Accessories			Accessories		

Hand tools

CRIMPHANDY, portable hand-held machine, for a 1.0 mm² conductor cross section



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- The Crimphandy impresses with its easy, effortless handling, which helps protect your joints and tendons
- The compact lightweight tool is ideal for mobile use in the field. Up to 2000 crimping operations can be performed, thanks to the high-performance lithium-ion polymer battery
- Automatic cross section monitoring prevents faulty crimping as a result of incorrect conductor sizes
- The attachable waste receptacle catches the discarded insulation and thereby helps to ensure a clean working environment

Notes:
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



1.0 mm² conductor cross section

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm ²] / AWG
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
43	205	70
0.43	- 1 / -	< 2
Square crimp		

Description	
Portable hand-held machine, battery-powered , for ferrules, 1.0 mm ² , incl. battery and charger, 100 -240 V, in a robust case	
For standard PVC conductors (class 5)	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,0	1212465	1

Reel ferrules , 1.0 mm ² , 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack
Red, according to DIN 46228-4 and NF C 63-023: 1994-02
Yellow, special color, according to DIN 46228-4 and NF C 63-023: 1994-02
Replacement battery , for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah
Replacement charger , for CF CRIMPHANDY..., 100 - 240 V AC
Receptacle tray for CF-CRIMPHANDY
Replacement service tool , for CF-CRIMPHANDY 1.0

Accessories		
Type	Order No.	Pcs. / Pkt.
AI 1,0-8 RD-S	1212523	1000
AI 1,0-8 YE-S	1212782	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	1



CRIMPHANDY, portable hand-held machine, for a 1.5 mm² conductor cross section



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- Ferrules are automatically fed in, in strip form, via the integrated magazine, enabling multiple conductors to be crimped one after another without interruption
- The sleeves can be reloaded within a matter of seconds. The special sleeves with function end prevent incorrect insertion

The square crimp mold is ideal for the terminal blocks from the CLIPLINE complete system

- UT... screw connection terminal blocks
- ST... spring-cage connection terminal blocks
- PT... push-in connection terminal blocks
- COMBI plug-in connection solutions

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



1.5 mm² conductor cross section

Dimensions

[mm]

General data

Weight	[kg]	0.43
Conductor	[mm ²] / AWG	- 1.5 / -
Working cycle	[s]	< 2
Compression		Square crimp

Description

Portable hand-held machine, battery-powered, for ferrules, 1.5 mm², incl. battery and charger, 100 - 240 V, in a robust case

For standard PVC conductors (class 5)

Reel ferrules, 1.5 mm², 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack

Black, according to DIN 46228-4 and NF C 63-023: 1994-02

Red, special color, according to DIN 46228-4 and NF C 63-023: 1994-02

Replacement battery, for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah

Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC

Receptacle tray for CF-CRIMPHANDY

Service tool, for CF-CRIMPHANDY 1,5, for rectifying malfunctions

Technical data

Width	Length	Height
43	205	70

Ordering data

Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,5	1212466	1

Accessories

Type	Order No.	Pcs. / Pkt.
AI 1,5-8 BK-S	1212524	1000
AI 1,5-8 RD-S	1212781	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	1



Hand tools

CRIMPFOX 4 IN 1 multi-functional crimping pliers



- The multi-functional CRIMPFOX 4 IN 1 crimping pliers are used to process taped ferrules according to DIN 46228-4
- 4 functions combined in a single tool: cutting, stripping, twisting, and crimping
- An effective handling process enables all steps to be performed without putting the tool down



- Fitted with a releasing pressure lock, the pliers provide consistently high-quality crimping and are therefore ideal for industrial use



- The robust stripping unit with its special blade geometry provides permanently consistent stripping results
- Length and cross section settings are not necessary
- In order to re-establish the twist which is lost during the stripping process, a twisting system is included



- The cross section can be conveniently changed in a matter of seconds by replacing the magazine which is loaded with taped product

Application range

Conductor	[mm ²] / AWG
Compression	

Description

Tool for processing ferrules with cutting, stripping, twisting, and crimping unit, with one magazine

Tool for processing ferrules with cutting, stripping, twisting, and crimping unit, with three magazines, including one strip each of ferrules from 0.5 mm² - 2.5 mm², packaged in a robust plastic case

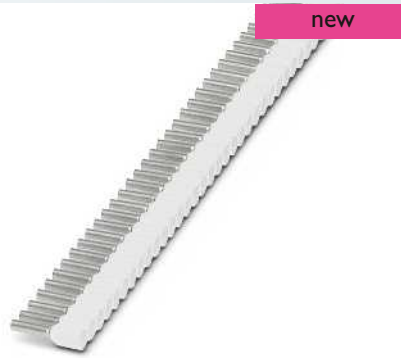
Taped ferrules, 0.5 mm², sleeve length: 8 mm, with plastic collar, according to DIN 46228-4, white, for processing with the CRIMPFOX 4 IN 1, 10 strips each with 50 sleeves per strip

10 strips each with 40 sleeves per strip blue

Ferrule magazine for CRIMPFOX 4 IN 1, for ferrules with insulating collars from 0.5 - 2.5 mm with a length of 8 mm



Multi-functional ferrule crimping pliers



Conductor cross section of 0.5 - 2.5 mm²

Technical data
0.5 - 2.5 / 20 - 14 Indent crimp

Technical data
- / - -

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 4 IN 1	1200101	1
CRIMPFOX 4 IN 1 SET	1200102	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
Al 0,5-8 WH S1	1200104	500
Al 0,75-8 GY S1	1200105	500
Al 1,0-8 RD S1	1200106	500
Al 1,5-8 BK S1	1200107	500
Al 2,5-8 BU S1	1200108	400

Accessories		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 4 IN 1/MAG	1200103	1

Accessories		
Type	Order No.	Pcs. / Pkt.

Hand tools

CRIMPFOX crimping pliers for ferrules



- Extensive range of crimping pliers
- All ferrules can be optimally crimped with a minimum amount of effort even in the case of large conductor cross sections
- Consistently high crimping quality thanks to the integrated pressure lock
- Marked die stations for precise processing of corresponding cross sections



0.25 - 2.5 mm² conductor cross section

Application range	
Conductor	[mm ²] / AWG
Compression	

Description
Crimping pliers , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, five marked die stations, pressure lock can be released, lateral entry
Crimping pliers , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry
Crimping pliers , compact pliers, for ferrules according to DIN 46228-1 and DIN 46228-4, unlockable pressure lock, lateral entry

Replacement die
Replacement recuperating spring

Technical data	
Conductor	0.25 - 2.5 / 24 - 12
Compression	Trapezoidal crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 2,5-M	1212719	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1



Conductor cross section of 0.25 - 6 mm²



0.25 - 6 mm² conductor cross section



4 - 10 mm² conductor cross section

ERIC

Technical data
0.25 - 6 / 24 - 10 Trapezoidal crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6	1212034	1

Accessories		
CRIMPFOX 6/DIE	1212035	1
CRIMPFOX/ SPR-3	1212036	1

Technical data
0.25 - 6 / 24 - 10 Trapezoidal crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6-M	1212720	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Technical data
4 - 10 / 12 - 8 Trapezoidal crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 10	1212721	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for ferrules

- Extensive range of crimping pliers
- All ferrules can be optimally crimped with a minimum amount of effort even in the case of large conductor cross sections
- Consistently high crimping quality, thanks to the integrated pressure lock

CRIMPFOX 6T-F

- Self-adjusting die automatically adapts to the connector size
- Bound to impress, thanks to the quick and reliable contact processing method
- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working



Conductor cross section of 0.25 - 6 mm²

ERC

Application range	
Conductor	[mm ²] / AWG
Compression	

Technical data	
Conductor	0.25 - 6 / 24 - 10
Compression	Trapezoidal crimp

Description
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, lateral entry
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, front entry
Crimping pliers , for ferrules as per DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be released, front entry

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6T	1212037	1

Replacement recuperating spring

Accessories		
CRIMPFOX/ SPR-1	1212069	1



Conductor cross section of 0.25 - 6 mm²



Conductor cross section of 0.5 - 6 mm²

ERC

ERC

Technical data		
0.25 - 6 / 24 - 10 Trapezoidal crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6T-F	1212038	1
Accessories		
CRIMPFOX/ SPR-1	1212069	1

Technical data		
0.5 - 6 / 20 - 10 Square crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6S-F	1212043	1
Accessories		
CRIMPFOX/ SPR-3	1212036	1

Hand tools

CRIMPFOX crimping pliers for ferrules

- These compact crimping pliers have been designed to reduce effort when working
- Self-adjusting die automatically adapts to the connector size

Notes:
For corresponding ferrules, see from page 444.



Conductor cross section of 0.14 - 10 mm²



Conductor cross section of 0.14 - 6 mm²

ERC

	Technical data		
Application range			
Conductor	0.14 - 10 / 25 - 7		
Compression	[mm ²] / AWG Square crimp		
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for ferrules as per DIN 46228, 0.14 – 10 mm ² , pressure lock can be released, lateral entry	CRIMPFOX 10S	1212045	1
Crimping pliers , for ferrules as per DIN 46228, 0.14 – 6 mm ² , pressure lock can be released, lateral entry			
Accessories			
Replacement recuperating spring	CRIMPFOX/SPR-2	1212047	1

ERC

	Technical data		
Application range			
Conductor	0.14 - 6 / 25 - 10		
Compression	HEX crimp		
Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for ferrules as per DIN 46228, 0.14 – 6 mm ² , pressure lock can be released, lateral entry	CRIMPFOX 6H	1212046	1
Accessories			
Replacement recuperating spring	CRIMPFOX/SPR-2	1212047	1

CRIMPFOX crimping pliers for ferrules

- These crimping pliers can be used to process ferrules measuring up to 50 mm²
- Ergonomically designed handles ensure an optimum grip and reduce the amount of force required by 25 percent

Notes:
For corresponding ferrules, see from page 444.



Conductor cross section of 10 - 25 mm²



Conductor cross section of 35 - 50 mm²

ERC

Technical data		
Application range		
Conductor	[mm ²] / AWG	
Compression	10 - 25 / 8 - 4 WM crimp	
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 25R	1212039	1
Accessories		
CRIMPFOX 25R/DIE	1212040	1
CRIMPFOX/ SPR-1	1212069	1

ERC

Technical data		
Application range		
Conductor	[mm ²] / AWG	
Compression	35 - 50 / 2 - 1 WM crimp	
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 50R	1212041	1
Accessories		
CRIMPFOX 50R/DIE	1212042	1
CRIMPFOX/ SPR-1	1212069	1

Description	<p>Crimping pliers, for ferrules as per DIN 46228-1 and DIN 46228-4, three marked die stations, pressure lock can be released, lateral entry</p> <p>Crimping pliers, for ferrules as per DIN 46228-1 and DIN 46228-4, two marked die stations, pressure lock can be released, lateral entry</p>
Replacement die	
Replacement recuperating spring	

Hand tools

CRIMPFOX crimping pliers for cable lugs and connectors

- Consistently high crimping quality, thanks to the pressure lock. It is released as soon as the required crimping pressure is reached, therefore ensuring sufficient pressure is applied
- The color coded dies clearly indicate the cross section



Conductor cross section of 0.14 - 1 mm²



Conductor cross section of 0.5 - 2.5 mm²

Notes:
 Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.
 For replacement dies and retaining springs, go to the product area on the website at phoenixcontact.net/products.

ERC

ERC

Application range	Technical data			Technical data		
	Conductor	[mm ²] / AWG	Compression	Conductor	[mm ²] / AWG	Compression
			0.14 - 1 / 26 - 18 Oval crimp			0.5 - 2.5 / 20 - 14 Oval crimp
Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for insulated cable lugs (light green, red), three marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RCI 1	1212055	1			
Crimping pliers , compact pliers, for insulated cable lugs (light green, red), three marked die stations, unlockable pressure lock, lateral entry						
Crimping pliers , for insulated cable lugs (red, blue), two marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RCI 1-M	1212727	1			
Crimping pliers , compact pliers, for insulated cable lugs (red, blue), two marked die stations, unlockable cable lug, lateral entry				CRIMPFOX-RCI 2,5	1212053	1
Crimping pliers , for insulated cable lugs symmetric (red, blue, yellow), three marked die stations, pressure lock can be released, lateral entry				CRIMPFOX-RCI 2,5-M	1212728	1
Crimping pliers , compact pliers, for symmetrical insulated cable lugs (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						
Crimping pliers , compact pliers, for symmetrical insulated DIN cable lugs (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						
Crimping pliers , for insulated cable lugs asymmetric (red, blue, yellow), three marked die stations, pressure lock can be released, lateral entry						
Crimping pliers , compact pliers, for fully insulated shrink connectors (red, blue, yellow), three marked die stations, unlockable pressure lock, lateral entry						



Conductor cross section of 0.5 - 6 mm²



Conductor cross section of 0.5 - 6 mm²



Conductor cross section of 0.5 - 6 mm²

ERC

ERC

Technical data
0.5 - 6 / 20 - 10 Oval crimp

Technical data
0.5 - 6 / 20 - 10 Oval crimp

Technical data
0.5 - 6 / 20 - 10 Oval crimp

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

CRIMPFOX-RCI 6	1212057	1
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CRIMPFOX-RCI 6-M	1212730	1
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CRIMPFOX-RCI DIN 6	1212729	1
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CRIMPFOX-RCI 6-1	1212059	1
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CRIMPFOX-HS 6	1212722	1
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Hand tools

CRIMPFOX crimping pliers for non-insulated cable lugs

- For processing non-insulated cable lugs
- Compact and lightweight design
- Unlockable pressure lock
- Marked die stations for precise processing of the relevant cross sections

Notes:
Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.
For replacement dies and retaining springs, visit phoenixcontact.net/products



Conductor cross section of 0.35 - 2.5 mm²



Conductor cross section of 0.5 - 6 mm²

ERC

	Technical data			Technical data		
Application range						
Conductor	[mm ²] / AWG	0.35 - 2.5 / 22 - 14		0.5 - 6 / 20 - 10		
Compression		Indent crimp		Indent crimp		
	Ordering data			Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for non-insulated cable lugs, three marked die stations, pressure lock can be released, lateral entry	CRIMPFOX-RC 2,5	1212063	1			
Crimping pliers , compact pliers, for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry	CRIMPFOX-RC 2,5-M	1212723	1			
Crimping pliers , compact pliers, for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry				CRIMPFOX-RC 6-M	1212724	1
Crimping pliers , for uninsulated cable lugs, two marked die stations, unlockable pressure lock, lateral entry						
Crimping pliers , for uninsulated cable lugs, three marked die stations, unlockable pressure lock, lateral entry						



Conductor cross section of 0.5 - 6 mm²



Conductor cross section of 4 - 10 mm²



Conductor cross section of 10 - 25 mm²

ERC

ERC

Technical data
0.5 - 6 / 20 - 10 Indent crimp

Technical data
4 - 10 / 12 - 8 Indent crimp

Technical data
10 - 25 / 8 - 4 Indent crimp

Ordering data

Ordering data

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 6	1212710	1

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 10	1212061	1

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 25	1212065	1

Hand tools

CRIMPFOX crimping pliers for uninsulated tube lugs

- For processing uninsulated tube lugs
- Consistently high crimping quality, thanks to the integrated pressure lock



4 - 16 mm² conductor cross section



10 - 70 mm² conductor cross section

	Technical data			Technical data		
Application range						
Conductor	[mm ²] / AWG	4 - 16 / 4 - 12		10 - 70 / 8 - 00		
Compression		Indent crimp		Indent crimp		
	Ordering data			Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for standard, uninsulated tube lugs, three marked die stations	CRIMPFOX-RCT 16-1	1212731	1			
Crimping pliers , for standard, uninsulated tube lugs, three marked die stations, unlockable pressure lock, lateral entry, 10 - 25 mm ² conductor cross section, crimping: HEX crimp				CRIMPFOX-RCT 25-1	1212066	1
Crimping pliers , for standard, uninsulated tube lugs, with rotatable die, 5 stations, 10 - 70 mm ² conductor cross section				CRIMPFOX-RCT 70-1	1212732	1

CRIMPFOX basic pliers, for accommodating various crimp inserts

- Universal crimping pliers up to 120 mm²
- Wide variety of available dies
- Easily foldable jaw holders mean that the dies can be changed quickly
- A mechanical drive system keeps the level of force required to an absolute minimum



For dies up to 50 mm²



For dies up to 120 mm²

Notes:
Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.
For more dies, see phoenixcontact.net/products.

ERC

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C50	1212340	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C50 RCI 10/DIE	1212346	1
CRIMPFOX-C50 RCI 16/DIE	1212347	1
CRIMPFOX-C50 RCI 25/DIE	1212348	1
CRIMPFOX-C50 RC 35/M-DIE	1212343	1
CRIMPFOX-C50 RC 25/F-DIE	1212344	1
CRIMPFOX-C50 RC 35/F-DIE	1212345	1
CRIMPFOX-C50 RCT 35-1/DIE	1212341	1
CRIMPFOX-C50 RCT 50-1/DIE	1212342	1
CRIMPFOX-C50 R25-35/DIE	1212349	1
CRIMPFOX-C50 R35-50/DIE	1212350	1
CRIMPFOX-C50 R50-70/DIE	1212351	1

ERC

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C120	1212318	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C120 AI 70/M-DIE	1212335	1
CRIMPFOX-C120 AI 95/M-DIE	1212336	1
CRIMPFOX-C120 AI 50/F-DIE	1212337	1
CRIMPFOX-C120 AI 70/F-DIE	1212338	1
CRIMPFOX-C120 AI 95/F-DIE	1212339	1
CRIMPFOX-C120 AI 120/DIE	1209910	1
CRIMPFOX-C120 RCI 10/DIE	1212327	1
CRIMPFOX-C120 RCI 16/DIE	1212328	1
CRIMPFOX-C120 RCI 25/DIE	1212329	1
CRIMPFOX-C120 RCI 35/DIE	1212330	1
CRIMPFOX-C120 RC 70/M-DIE	1212331	1
CRIMPFOX-C120 RC 35/F-DIE	1212332	1
CRIMPFOX-C120 RC 50/F-DIE	1212333	1
CRIMPFOX-C120 RC 70/F-DIE	1212334	1
CRIMPFOX-C120 RCT 35-1/DIE	1212320	1
CRIMPFOX-C120 RCT 50-1/DIE	1212321	1
CRIMPFOX-C120 RCT 70-1/DIE	1212319	1
CRIMPFOX-C120 RCT 95-1/DIE	1212322	1
CRIMPFOX-C120 RCT 120-1/DIE	1212323	1
CRIMPFOX-C120 R25-50/DIE	1212324	1
CRIMPFOX-C120 R35-70/DIE	1212325	1
CRIMPFOX-C120 R95/DIE	1212326	1

Hand tools

CRIMPFOX crimping pliers for non-insulated slip-on sleeves

- For processing non-insulated flat connectors and slip on sleeves with a cross section of up to 6 mm²
- Consistently high crimping quality, thanks to the integrated pressure lock
- Marked die stations for precise processing of the relevant cross sections

Notes:
Suitable ferrules, cable lugs and flat connectors have been documented, see from page 444.



Conductor cross section of 0.1 - 1.5 mm²



Conductor cross section of 0.1 - 1.5 mm²

ERC

		Technical data			Technical data		
Application range							
Conductor	[mm ²] / AWG	0.1 - 1.5 / 26 - 16			0.1 - 1.5 / 26 - 16		
Compression		B crimp			B crimp		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimping pliers , for 2.8 / 4.8 / 6.3 mm non-insulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry							
Crimping pliers , compact pliers, for uninsulated slip-on sleeves, 2.8 / 4.8 / 6.3 mm, three marked die stations, unlockable pressure lock, lateral entry		CRIMPFOX-SC 1,5	1212048	1			
Crimping pliers , for 2.8 / 4.8 / 6.3 mm non-insulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-SC 1,5-M	1212725	1
	black						
Crimping pliers , for 2.8 / 4.8 / 6.3 mm non-insulated slip-on sleeves, three marked die stations, unlockable pressure lock, lateral entry, incl. positioning tool							
	black						
Crimping pliers , compact pliers, for angled, uninsulated slip-on sleeves, marked die station, unlockable pressure lock, lateral entry							
		Accessories			Accessories		
Replacement die		CRIMPFOX-SC 1,5/DIE	1212049	1			
Replacement recuperating spring		CRIMPFOX/ SPR-3	1212036	1	CRIMPFOX/ SPR-1	1212069	1



Conductor cross section of 0.5 - 6 mm²



Conductor cross section of 0.5 - 6 mm²



For angled slip-on sleeves, 1.0 - 2.5 mm² conductor cross section

ERC

ERC

Technical data		
0.5 - 6 / 22 - 10 B crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 6	1212050	1

Technical data		
0.5 - 6 / 22 - 10 B crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 6L	1212052	1

Technical data		
1 - 2.5 / 18 - 14 B crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SCA 2,5-M	1212726	1

Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

Accessories		
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for turned contacts

- Crimping pliers for processing turned contacts of up to 10 mm²
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- Marked die stations for precise processing of the relevant cross sections



Conductor cross section of 0.5 - 4 mm²

Application range	
Conductor	[mm ²] / AWG
Compression	
Description	
Color	
Crimping pliers , for turned contacts with a pin diameter of 1.6 / 2.5 / 4.0 mm - For CK1,6-ED ... , CK2,5-ED..., CK4,0-E D... 0,5-4 mm ² turned contacts	
For conductor cross sections of 6 – 10 mm ²	black
Replacement die - For CRIMPFOX-TC 4 - For CRIMPFOX-TC 10	
Replacement recuperating spring	

Technical data		
0.5 - 4 / 22 - 12 Square crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-TC 4	1212113	1
CRIMPFOX-TC 10	1212114	1
Accessories		
CRIMPFOX-TC 4/DIE	1212295	1
CRIMPFOX-TC 10/DIE	1212296	1
CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX four-mandrel crimping pliers for turned contacts, with digital display

- Crimping pliers for processing turned pin and socket contacts of up to 2.5 mm²
- Crimp depth setting in increments from 0.01 mm possible
- Low strain and length adjustment of the contacts, thanks to special crimp geometry
- The integrated positioning tool ensures that the contacts are perfectly aligned in the die
- You can find further details on this product (incl. connector matrix) at phoenixcontact.net/products



Conductor cross sections up to 2.5 mm²

Application range	
Conductor	[mm ²] / AWG
Compression	
Description	
Color	
Crimping pliers , for turned contacts, universal cross section setting, up to a maximum of 2.5 mm ² , digital display with 0.01 mm increments, unlockable pressure lock, lateral entry, including positioning tool	
	black
Crimping pliers , for turned contacts, universal cross section setting, from 0.08 mm ² up to a maximum of 2.5 mm ² , digital display with 0.01 mm increments, pressure lock can be unlocked, lateral entry, including positioning tool	
	black

Technical data		
0.08 - 2.5 / 28 - 13 Four-mandrel crimping		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-TC MP	1212510	1
CRIMPFOX-TC MP-1	1212620	1

CRIMPFOX crimping pliers for coaxial connectors

- CRIMPFOX-CX... are crimping pliers for processing coaxial connectors
- Consistently high crimping quality, thanks to the pressure lock, which can be unlocked without tools
- Marked die stations for precise processing of corresponding cross sections



For coaxial connectors

Notes:
For replacement dies and retaining springs, go to the product area on the website at phoenixcontact.net/products.

ERC

Application range		Technical data			Technical data		
Compression		HEX crimp			HEX crimp		
Description		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Crimp pliers, for: Coaxial connector 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, pressure lock can be released, lateral entry, Hex crimp		CRIMPFOX-CX 4,52	1212094	1			
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp					CRIMPFOX-CX 4,52-M	1212713	1
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp					CRIMPFOX-CX 6,48-M	1212714	1
Crimping pliers, for: coaxial connectors, 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, unlockable pressure lock, lateral entry, Hex crimp		CRIMPFOX-CX 6,48	1212095	1			
Crimping pliers, compact pliers, coaxial connectors, 0.7 mm, 1.07 mm, 1.69 mm, 3.25 mm, 4.52 mm, 5.41 mm, six marked die stations, unlockable pressure lock, lateral entry, Hex crimp					CRIMPFOX-CX 5,41-M	1212712	1
Crimping pliers, for: coaxial connectors, 1.73 mm, 8.23 mm, 9.14 mm, three marked die stations, unlockable pressure lock, lateral entry	black				CRIMPFOX-CX 9,14	1212096	1
Crimping pliers, for: coaxial connectors, 2.54 mm, 10.54 mm, two marked die stations, unlockable pressure lock, lateral entry	black				CRIMPFOX-CX 10,54	1212097	1
Crimping pliers, for: coaxial connectors, 2.54 mm, 10.90 mm, two marked die stations, unlockable pressure lock, lateral entry	black				CRIMPFOX-CX 10,90	1212098	1
Crimping pliers, compact pliers, coaxial connectors, 1.69 mm, 2.54 mm, 5.41 mm, 10.90 mm, four marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 10,90-1	1212715	1
Crimping pliers, compact pliers, coaxial connectors, HDTV, BNC, TNC, 1.04 mm, 4.52 mm, 6.48 mm, 7.06 mm, four marked die stations, unlockable pressure lock, lateral entry					CRIMPFOX-CX 7,06 HD-M	1212718	1

Hand tools

CRIMPFOX crimping pliers for coaxial CATV connectors

- CRIMPFOX-CATV... are crimping pliers for processing coaxial CATV connectors
- Consistently high crimping quality, thanks to the pressure lock
- It is released as soon as the required crimping pressure is reached, therefore ensuring sufficient pressure is applied
- Ergonomically designed handle for fatigue-proof and non-slip use



For 1.69 mm, 8.23 mm



For 6.65 mm, 8.23 mm, 9.70 mm

Application range

Compression

Description

Crimping pliers, for CATV connectors, RG 6.59, 1.69 mm, 8.23 mm, two marked die stations, unlockable pressure lock, lateral entry

Crimping pliers, for CATV connectors, 6.65 mm, 8.23 mm, 9.70 mm, three marked die stations, unlockable pressure lock, lateral entry

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-CATV 8,23	1212716	1

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-CATV 8,23-1	1212717	1

CRIMPFOX crimping pliers for D-SUB, coaxial, and fiber optic connectors

- The integrated positioning tool of the CRIMPFOX D-SUB... ensures that the contacts are perfectly aligned in the die

Notes:

For replacement dies and retaining springs, go to the product area on the website at phoenixcontact.net/products.



Crimping pliers, for D-SUB contacts



Crimping pliers, for fiber optic connectors

Application range

Compression

Description

Color

Crimping pliers
- For rolled D-SUB contacts, high-density, 0.08 mm² - 0.5 mm², incl. contact locator

black

- For rolled D-SUB contacts, standard, 0.05 mm² - 0.5 mm², incl. contact locator

Crimping pliers, for fiber optics connector, 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, 5.41 mm, five marked die stations, pressure lock can be released, lateral entry

Technical data

B crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-DSUB 5	1212111	1
CRIMPFOX-DSUB 5-1	1212711	1

Technical data

HEX crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-FO 5,41	1212099	1

CRIMPFOX crimping pliers for solar connectors



- Safe crimping of MC3 and MC4 solar connectors from Multi-Contact and SOLARLOK connectors from Tyco
- Ergonomically designed grip
- Optimized mechanical transmission reduces the force required by up to 25 percent



Conductor cross section of 2.5 - 6 mm²

Description

Crimping pliers, square crimp, for MC3 solar connectors, 2.5 – 6 mm², unlockable pressure lock, lateral entry, with three marked die stations

Crimping pliers, B-crimp, for MC4 solar connectors, 2.5 – 6 mm², unlockable pressure lock, lateral entry, with three marked die stations

Crimping pliers, square crimp, for SOLARLOK solar connectors, 2.5 – 6 mm², unlockable pressure lock, lateral entry, with three marked die stations

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SR 6-1	1212467	1
CRIMPFOX-SR 6-2	1212468	1
CRIMPFOX-SR 6-3	1212469	1

CRIMPFOX universal pliers for accommodating various crimp inserts



Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 plugs, visit phoenixcontact.net/products



Basic pliers

Description

Basic pliers, for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry

Crimping pliers set, consisting of CRIMPFOX-M and dies
1212074, 1212079, 1212080, 1212081

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-M	1212072	1
CRIMPFOX-M SET	1212093	1

- One of the key features of the CRIMPFOX-M crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes it a space-saving universal tool for all crimping applications
- Suitable for one and two-hand operation. Contacts up to 50 mm² can also be processed easily, with minimum effort

Hand tools

Dies for the CRIMPFOX-M universal pliers

Notes:
For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 plugs, visit phoenixcontact.net/products



Dies for CRIMPFOX-M

ERC

Ordering data

Description	Type	Order No.	Pcs. / Pkt.	
Die, for MC3 solar connectors, lateral entry, 2.5 - 6 mm²				
For MC4 solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-1/DIE	1212471	1	
	CRIMPFOX-M SR 6-2/DIE	1212472	1	
For SOLARLOK solar connectors, lateral entry, 2.5 - 6 mm ²	CRIMPFOX-M SR 6-3/DIE	1212473	1	
Die, for ferrules, 0.25 - 10 mm²				
For 16 - 25 mm ²	CRIMPFOX-M 10/DIE	1212080	1	
For 35 - 50 mm ²	CRIMPFOX-M 25/DIE	1212081	1	
	CRIMPFOX-M 50/DIE	1212082	1	
Die, for insulated cable lugs, 0.5 - 1.5 mm² and 1.5 - 2.5 mm²				
For insulated cable lugs, 0.1 - 0.4 mm ² and 4 - 6 mm ²	CRIMPFOX-M RCI 2,5/DIE	1212074	1	
	CRIMPFOX-M RCI 6/DIE	1212073	1	
Die, for non-insulated cable lugs, 0.75 - 2.5 mm²				
For 0.5 - 6 mm ²	CRIMPFOX-M RC 2,5/DIE	1212078	1	
For 4 - 6 and 10 mm ²	CRIMPFOX-M RC 6/DIE	1212079	1	
For 4 - 10 mm ²	CRIMPFOX-M RC 10-1/DIE	1212744	1	
	CRIMPFOX-M RC 10/DIE	1212077	1	
Die, for non-insulated slip-on sleeves, 0.1 - 1 mm²				
For 0.5 - 2.5 mm ²	CRIMPFOX-M SC 1/DIE	1212083	1	
For 0.5 - 6 mm ²	CRIMPFOX-M SC 2,5/DIE	1212084	1	
with wide, flat crimp for 0.5 - 6 mm ²	CRIMPFOX-M SC 6/DIE	1212085	1	
	CRIMPFOX-M SC 6-FL/DIE	1212741	1	
For angled slip-on sleeves, for 6.3 mm, 1.0 - 2.5 mm ²	CRIMPFOX-M SCA 2,5/DIE	1212742	1	
For angled slip-on sleeves, for 8 mm, 1.0 - 2.5 mm ²	CRIMPFOX-M SCA 2,5-1/DIE	1212743	1	
Die, for turned contacts with pin diameters 2.5 mm and 4.0 mm (CK 2,5...CK 4,0), cross section 0.14 - 4 mm²	CRIMPFOX-M TC 4/DIE	1212075	1	
For turned contacts with pin diameter 4 mm (CK 4,0...), cross section 6 - 10 mm ²	CRIMPFOX-M TC 10/DIE	1212076	1	
Die, for RG 174, RG 179, BNC, TNC coaxial connectors				
For RG 58, RG 59, RG 62, RG 71, BNC, TNC	black black	CRIMPFOX-M CX-1/DIE CRIMPFOX-M CX-2/DIE	1212087 1212088	1 1
For CATV RG 6,59	black	CRIMPFOX-M CX-3/DIE	1212089	1
For BNC, TNC, RG6, 1.73, 6.48, 8.23 mm		CRIMPFOX-M CX-4/DIE	1212745	1
For BNC, TNC, 0.70, 3.25, 3.85 mm		CRIMPFOX-M CX-5/DIE	1212746	1
For BNC, TNC, 1.07, 6.48, 8.23 mm		CRIMPFOX-M CX-6/DIE	1212747	1
For BNC, TNC, 1.72, 5.41 mm		CRIMPFOX-M CX-7/DIE	1212748	1
For CATV RG 6.59 1.72, 8.23 mm		CRIMPFOX-M CX-8/DIE	1212749	1
Die, for unshielded RJ45 connectors				
For unshielded RJ11 connectors	black black	CRIMPFOX-M RJ45/DIE CRIMPFOX-M RJ11/DIE	1212090 1212091	1 1
Die, for shrink connectors, 0.5 - 1.5 mm² red and 1.5 - 2.5 mm² blue	black	CRIMPFOX-M HS/DIE	1219092	1
Die, for shrink connectors, 0.1 - 0.4 mm² green and 4 - 6 mm² yellow		CRIMPFOX-M HS-1/DIE	1212282	1

CRIMPFOX universal pliers for accommodating various dies for data plugs

- One of the key features of the CRIMPFOX–C D crimping pliers is the way the crimp inserts can be quickly replaced without the need for tools
- The variety of inserts makes them a space-saving universal tool for data plug applications



Basic pliers



Die for CRIMPFOX-C D

Description	Color	Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Basic pliers , for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry	black	CRIMPFOX-C D	1212734	1			
Die , for unshielded RJ11 plugs					CRIMPFOX-C RJ11/DIE	1212735	1
Die , for unshielded RJ22 plugs					CRIMPFOX-C RJ22/DIE	1212736	1
Die , for unshielded RJ45 plugs					CRIMPFOX-C RJ45/DIE	1212737	1
Die , for unshielded RJ45 plugs, universal					CRIMPFOX-C RJ45U/DIE	1212738	1
Die , 10-pos.					CRIMPFOX-C 10P/DIE	1212739	1
Die , for DEC MML plugs					CRIMPFOX-C MMJ/DIE	1212740	1

Hand tools

SCREWFOX screwdrivers for slotted-head screws



- Large contact surface of blades inside screw head
- Individually tested safety screwdrivers acc. to DIN EN 60900 (VDE 0682-201)
- For working on or in the vicinity of live parts up to 1000 V AC or 1500 V DC
- The tools feature ergonomic two-component safety handles



VDE flat-bladed screwdriver



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver , for slotted-head screws, with VDE approval			
Blade: 0.4 x 2.5 x 80 mm, length: 161 mm	SZS 0,4X2,5 VDE	1205037	10
Blade: 0.5 x 3.5 x 100 mm, length: 181 mm	SZS 0,5X3,0 VDE	1207404	10
Blade: 0.6 x 2.5 x 80 mm, length: 161 mm	SZS 0,6X2,5 VDE	1205040	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZS 0,6X3,5 VDE	1212602	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SZS 0,8X4,0 VDE	1212508	1
Blade: 1.0 x 4.0 x 100 mm, length: 198 mm	SZS 1,0X4,0 VDE	1205066	10
Blade: 1.0 x 5.5 x 125 mm, length: 223 mm	SZS 1,0X5,5 VDE	1209114	10
Blade: 1.0 x 6.5 x 150 mm, length: 248 mm	SZS 1,0X6,5 VDE	1205079	10
Blade: 1.2 x 8.0 x 175 mm, length: 287 mm	SZS 1,2X8,0 VDE	1205082	10
Screwdriver , two-component handle, with non-slip grip, for slotted-head screws			
Blade: 0.4 x 2.0 x 60 mm, length: 130 mm			
Blade: 0.4 x 2.5 x 75 mm, length: 145 mm			
Blade: 0.4 x 2.5 x 80 mm, length: 161 mm			
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm			
Blade: 0.6 x 3.5 x 200 mm, length: 281 mm			
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm			
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm			
Blade: 1.2 x 6.5 x 150 mm, length: 255 mm			
Screwdriver , two-component handle, with non-slip grip, with impact cap, with hexagon wrench aid for open-end wrench and ring wrench, for slotted-head screws			
Blade: 1.2 x 7 x 125 mm, length: 230 mm			
Blade: 1.6 x 10 x 175 mm, length: 287 mm			



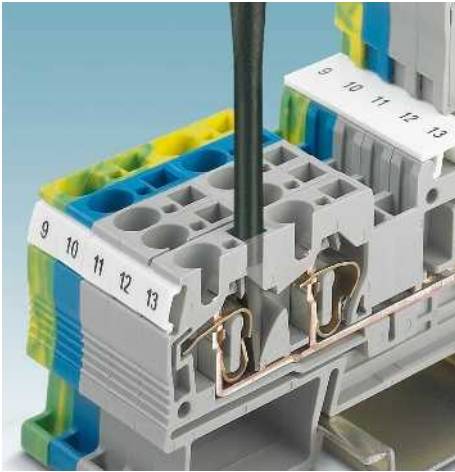
Flat-bladed screwdriver, non-insulated

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-SL 0,4X2,0-60	1212546	10
SF-SL 0,4X2,5-75	1212547	10
SF-SL 0,5X3,0-80	1212548	10
SF-SL 0,6X3,5-100	1212549	10
SF-SL 0,6X3,5-200	1212550	10
SF-SL 0,8X4,0-100	1212551	10
SF-SL 1,0X5,5-150	1212552	10
SF-SL 1,2X6,5-150	1212553	10
SF-SLIC 1,2X7,0-125	1212554	10
SF-SLIC 1,6X10-175	1212555	10

Hand tools

SCREWFOX VDE
screwdriver/actuation tool for ST...
terminal blocks



- In addition to catering for standard applications, SF-SL ... screwdrivers are particularly suited to the assembly of modular terminal blocks
- VDE-tested, for maximum safety
- As the insulation runs into the shaft, there is no protruding edge

Description
<p>Screwdriver/actuation tool, for slotted-head screws/spring-cage terminal blocks, insulated, two-component handle, with non-slip grip, VDE Blade: 0.6 x 3.5 x 100 mm, length: 181 mm</p> <p>Blade: 0.8 x 4.0 x 100 mm, length: 198 mm</p> <p>Blade: 1.0 x 5.5 x 150 mm, length: 248 mm</p>
<p>Screwdriver, protective insulation integrated into shaft, insulated according to VDE Size: PZ1 x 80 mm Size: PZ2 x 100 mm</p>
<p>Screwdriver, protective insulation integrated into shaft, insulated according to VDE Size: PH1 x 80 mm Size: PH2 x 100 mm</p>
<p>Screwdriver, protective insulation integrated into shaft, insulated according to VDE Size: Pozidriv® - bladed (plus-minus) PZ1 x 80 mm</p> <p>Size: Pozidriv® - bladed (plus-minus) PZ2 x 100 mm</p>
<p>Screwdriver, protective insulation integrated into shaft, insulated according to VDE Size: Phillips-Recess® - bladed (plus-minus) PH1 x 80 mm Size: Phillips-Recess® - bladed (plus-minus) PH2 x 100 mm</p>
<p>Screwdriver set, protective insulation integrated into shaft, bladed/Phillips crosshead/combined profile, Pozidriv® + bladed (plus-minus), insulated according to VDE, 7-piece, including rack, set contains the following products: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZ1 x 80; PZ2 x 100</p>



VDE flat-bladed screwdrivers with integrated insulation



Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-SL 0,6X3,5-100 S-VDE	1212587	10
SF-SL 0,8X4,0-100 S-VDE	1212588	10
SF-SL 1,0X5,5-125 S-VDE	1212589	10





VDE screwdrivers with Pozidriv® or Phillips-Recess® drive, with integrated insulation



VDE screwdrivers with plus-minus drive, with integrated insulation



VDE screwdriver with various drives



Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZ 1-80 S-VDE	1212695	10
SF-PZ 2-100 S-VDE	1212696	10
SF-PH 1-80 S-VDE	1212693	10
SF-PH 2-100 S-VDE	1212694	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZSL 1-80 S-VDE	1212699	10
SF-PZSL 2-100 S-VDE	1212700	10
SF-PHSL 1-80 S-VDE	1212697	10
SF-PHSL 2-100 S-VDE	1212698	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-SL/PH/PZ-SL SET S-VDE	1212701	1

Hand tools

SCREWFOX screwdriver and actuation tool for ST..., QTC..., and TB... terminal blocks



- In addition to the standard application, these screwdrivers are also ideal for actuating modular terminal blocks from the ST ... and QTC ... series
- The defined blade angle opens the spring terminal block as far as possible without leaving any damage



Flat-bladed screwdriver, non-insulated

ERC

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks Blade: 0.4 x 2.5 x 75 mm, length: 156 mm	SZF 0-0,4X2,5	1204504	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZF 1-0,6X3,5	1204517	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm	SZF 2-0,8X4,0	1204520	10
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm	SZF 3-1,0X5,5	1206612	10
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks, insulated Blade: 0.6 x 3.5 x 100 mm, length: 181 mm	SZS 0,6X3,5	1205053	10
Actuation tool, insulated , for all 2.5 mm ² and 4 mm ² ST... spring-cage terminal blocks, plus push-in and QT... fast connection terminal blocks			





Actuation tool for push-in technology,
ST... and QTC... terminal blocks

ERIC

Ordering data

Type	Order No.	Pcs. / Pkt.
ST-BW	1207608	10

Hand tools

SCREWFOX screwdrivers for Phillips and slotted-head screws



- Screwdrivers for Phillips screws with Pozidriv and Phillips Recess screw head
- VDE approval
- The SZG... screwdrivers have been specially designed for driving in test socket screws safely and without slipping

Notes:
 Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
 Phillips Recess®, trademark of Phillips Screw Company



1000 V AC /
 *500 V DC

VDE crosshead screwdrivers with Pozidriv® and Phillips-Recess® drive



Description
<p>Screwdrivers, for Pozidriv®/Supadriv® Phillips screws, VDE approval Size: PZ0 x 80 mm, length: 161 mm Size: PZ1 x 80 mm, length: 178 mm Size: PZ2 x 100 mm, length: 205 mm Size: PZ3 x 150 mm, length: 262 mm</p> <p>Screwdrivers, for Phillips Recess® screws, VDE approval Size: PH0 x 80 mm, length: 161 mm Size: PH1 x 80 mm, length: 178 mm Size: PH2 x 100 mm, length: 205 mm Size: PH3 x 150 mm, length: 262 mm</p> <p>Screwdrivers, for Pozidriv® Phillips screws Size: PZ0 x 60 mm, length: 141 mm Size: PZ1 x 80 mm, length: 178 mm Size: PZ2 x 100 mm, length: 205 mm Size: PZ3 x 150 mm, length: 262 mm</p> <p>Screwdrivers, for Phillips Recess® screws Size: PH0 x 60 mm, length: 141 mm Size: PH1 x 80 mm, length: 178 mm Size: PH2 x 100 mm, length: 205 mm Size: PH3 x 150 mm, length: 262 mm</p> <p>Screwdriver, for Pozidriv®/Supadriv® Phillips screws, VDE approval Size: PZ1 x 80 mm, length: 178 mm Size: PZ2 x 100 mm, length: 205 mm Size: PH1 x 80 mm, length: 178 mm Size: PH2 x 100 mm, length: 205 mm</p> <p>Screwdriver, for test socket screws, with VDE approval For 2.3 mm Ø screw, blade: 0.6 x 3.5 x 100 mm, length: 198 mm For 4 mm Ø screw, blade: 0.9 x 6.5 x 175 mm, length: 287 mm</p>

Ordering data		
Type	Order No.	Pcs. / Pkt.
SZK PZ0 VDE	1206447	10
SZK PZ1 VDE	1206450	10
SZK PZ2 VDE	1206463	10
SZK PZ3 VDE	1212599	10
SZK PH0 VDE	1205147	10
SZK PH1 VDE	1205150	10
SZK PH2 VDE	1205163	10
SZK PH3 VDE	1212536	10





Crosshead screwdrivers with Pozidriv® and Phillips-Recess® drive



VDE screwdriver with plus-minus drive



VDE screwdriver for test socket screws



Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZ 0-60	1212562	10
SF-PZ 1-80	1212563	10
SF-PZ 2-100	1212564	10
SF-PZ 3-150	1212565	10
SF-PH 0-60	1212558	10
SF-PH 1-80	1212559	10
SF-PH 2-100	1212560	10
SF-PH 3-150	1212561	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-PZSL 1-80 VDE	1212556	10
SF-PZSL 2-100 VDE	1212557	10
SF-PHSL 1-80 VDE	1212283	10
SF-PHSL 2-100 VDE	1212288	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
SZG 0,6X3,5 VDE	1205121	10
SZG 0,9X6,5 VDE	1205134	10

SCREWFOX torque screwdrivers



- Torque screwdrivers with hexagonal quick connection holder
- High-precision, finely adjustable torque screwdrivers according to EN ISO 6789
- TSD-M ... torque screwdrivers are adjustable from 0.3 - 6.0 Nm
- The figure below shows the other TSD-M 6NM version



Torque screw driver, 0.3 - 1.2 Nm, adjustable

ERIC

Description	Color
Torque screwdrivers	
Adjustable from 0.3 - 1.2 Nm	black
Adjustable from 1.2 - 3 Nm	black
Adjustable from 3 - 6 Nm	black

Battery-powered screwdriver bit set, 1 attachment set each in 5.5 mm, 8 mm, 13 mm, adapter to 1/4"

Socket wrench insert, magnetic, hexagonal, 1/4" drive, suitable for holders according to DIN 3126-F 6,3 / ISO 1173

- Wrench size of 5.5 mm
- Wrench size of 8 mm
- Wrench size of 10 mm
- Wrench size of 13 mm

Adapter for 1/4"

Adapter insert, for torque screwdrivers with adjustable torque, for accommodating SAC nuts for 4 mm hexagonal screwdrivers

Ordering data		
Type	Order No.	Pcs. / Pkt.
TSD-M 1,2NM	1212224	1
TSD-M 3NM	1212225	1
TSD-M 6NM	1212226	1

Accessories		
Type	Order No.	Pcs. / Pkt.
ASD BIT SET HN	1209952	1
BHN 5,5	1209965	1
BHN 8	1209978	1
BHN 10	1209981	1
BHN 13	1209994	1
BF 6,3	1209936	1
TSD-M SAC-BIT ADAPTER	1212600	1



SCREWFOX cordless screwdriver



- Cordless screwdriver with two-speed gearbox, forward/reverse running and 21-stage clutch with drilling stage of up to 600 rpm
- 6.3 mm hexagonal quick connection drill chuck
- Integrated LEDs are used to illuminate the working area
- With optional snap-on protective cap to prevent unintentional torque adjustment
- High torque accuracy through electronic disconnecting coupling
- Ergonomic, non-slip handle design



21 different torque stages

Description

Cordless screwdriver, 3.6 V, incl. rechargeable battery, 1.5 Ah

Cordless screwdriver set, incl. two batteries and charger, 230 V, packaged in a robust aluminum case

Replacement charger, for SF-ASD 21 cordless screwdriver, 230 V

Replacement battery, for SF-ASD 21, Li-ion 3.6 V, 1.5 Ah

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-ASD 21	1212532	1
SF-ASD 21 SET 230V	1212530	1

Accessories

SF-ASD 21/CHARGER 230V	1212535	1
SF-ASD 21/ACCU 1,5 AH	1212533	1



Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle



- Tools for SF-ASD 21 cordless screwdriver, various designs
- The hardened bits are suitable for hard and soft screws
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened

Notes:
 Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
 Phillips Recess®, trademark of Phillips Screw Company
 Torx®, trademark of Acument Intellectual Properties, LLC, Troy, Mich.,US



Universal bit holder

Description	Color
Bit screwdriver , with 1/4" quick-action chuck, suitable for bits according to DIN 3126-C 6,3 and E 6,3/ISO 1173, magnetic	black
Universal bit holder , E6,3-1/4" drive, with automatic locking, one-hand operation, magnetic, for bits according to DIN 3126 C 6,3 and E 6,3	silver
Screw bit , slotted, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: 0.45 x 2.4 x 70 mm	silver
Size: 0.5 x 3.0 x 50 mm	silver
Size: 0.5 x 3.0 x 70 mm	silver
Size: 0.6 x 3.5 x 50 mm	silver
Size: 0.6 x 3.5 x 70 mm	silver
Size: 0.8 x 4.0 x 50 mm	silver
Size: 0.8 x 4.0 x 70 mm	silver
Size: 1.0 X 4.0 x 70 mm	silver
Size: 1.0 x 5.5 x 50 mm	silver
Size: 1.0 x 5.5 x 70 mm	silver
Size: 1.2 x 6.5 x 70 mm	silver
Screw bit , PH cross, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: PH 1 x 50 mm	silver
Size: PH 2 x 50 mm	silver
Size: PH 3 x 50 mm	silver
Size: PH 1 x 70 mm	silver
Size: PH 2 x 70 mm	silver
Size: PH 3 x 70 mm	silver
Screw bit , PZ cross, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: PZ 1 x 50 mm	silver
Size: PZ 2 x 50 mm	silver
Size: PZ 3 x 50 mm	silver
Size: PZ 1 x 70 mm	silver
Size: PZ 2 x 70 mm	silver
Size: PZ 3 x 70 mm	silver
Size: PZ 1 x 70 mm	silver
Size: PZ 2 x 70 mm	silver
Size: PH 1 x 70 mm	silver
Size: PH 2 x 70 mm	silver
Screw bit , slotted, graduated, E6,3-1/4" drive, for test socket screws, hardened, suitable for holder according to DIN 3126-F 6,3/ISO 1173	silver
Size: 0.6 x 3.5 x 50 mm	silver
Size: 0.9 x 6.5 x 50 mm	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-M BH	1212070	1
SF-UBH	1212590	1





Screw bit, slotted



Screw bit, PH and PZ cross-recessed



Screw bit, plus/minus

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-BIT-SL 0,45X2,4-70	1212607	5						
SF-BIT-SL 0,5X3,0-50	1212566	5						
SF-BIT-SL 0,5X3,0-70	1212567	5						
SF-BIT-SL 0,6X3,5-50	1212568	5						
SF-BIT-SL 0,6X3,5-70	1212569	5						
SF-BIT-SL 0,8X4,0-50	1212571	5						
SF-BIT-SL 0,8X4,0-70	1212572	5						
SF-BIT-SL 1,0X4,0-70	1212754	1						
SF-BIT-SL 1,0X5,5-50	1212574	5						
SF-BIT-SL 1,0X5,5-70	1212575	5						
SF-BIT-SL 1,2X6,5-70	1212577	5						
			SF-BIT-PH 1-50	1212579	5			
			SF-BIT-PH 2-50	1212580	5			
			SF-BIT-PH 3-50	1212581	5			
			SF-BIT-PH 1-70	1212582	5			
			SF-BIT-PH 2-70	1212583	5			
			SF-BIT-PH 3-70	1212584	5			
			SF-BIT-PZ 1-50	1212591	5			
			SF-BIT-PZ 2-50	1212592	5			
			SF-BIT-PZ 3-50	1212593	5			
			SF-BIT-PZ 1-70	1212594	5			
			SF-BIT-PZ 2-70	1212595	5			
			SF-BIT-PZ 3-70	1212596	5			
						SF-BIT-PZSL 1-70	1212603	5
						SF-BIT-PZSL 2-70	1212604	5
						SF-BIT-PHSL 1-70	1212479	5
						SF-BIT-PHSL 2-70	1212601	5
SF-BIT-SLS 0,6X3,5-50	1212605	5						
SF-BIT-SLS 0,9X6,5-50	1212606	5						

Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle



- Tools for SF-ASD 21 cordless screwdriver, various designs
- The hardened bits are suitable for hard and soft screws
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened



Screw bit, Torx®

		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Screw bit, Torx®, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6,3 / ISO 1173, size: TX 8 x 50 mm				
Size: TX 10 x 50 mm	silver	SF-BIT-TX 8-50	1212570	5
Size: TX 15 x 50 mm	silver	SF-BIT-TX 10-50	1212573	5
Size: TX 20 x 50 mm	silver	SF-BIT-TX 15-50	1212576	5
Size: TX 25 x 50 mm	silver	SF-BIT-TX 20-50	1212578	5
Size: TX 30 x 50 mm	silver	SF-BIT-TX 25-50	1212585	5
		SF-BIT-TX 30-50	1212586	5
Screw bit, hexagonal, E6,3-1/4" drive, hardened, suitable for holder according to DIN 3126-F6,3/ISO 1173				
Size: hex 2 x 50 mm	silver			
Size: hex 2.5 x 50 mm	silver			
Size: hex 3 x 50 mm	silver			
Size: hex 4 x 50 mm	silver			
Size: hex 5 x 50 mm	silver			
Size: hex 6 x 50 mm	silver			
Size: hex 8 x 50 mm	silver			



Screw bit, hex

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-BIT-HEX 2-50	1212645	5
SF-BIT-HEX 2,5-50	1212646	5
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
SF-BIT-HEX 5-50	1212649	5
SF-BIT-HEX 6-50	1212650	5
SF-BIT-HEX 8-50	1212651	5

SCREWFOX socket wrenches



SHN ...

- Ergonomically designed two-component grip for fatigue-proof and non-slip use

SF-THEX ...

- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working
- The hardened blades are designed for durability
- Optimum edge geometries increase the bearing surface and prevent the screws from being over-tightened

VDE-ISS ...

- VDE-insulated Allen wrench with double-layer insulation, for twice as much safety

Allen screw set

- Offset screwdriver set in convenient holder
- The strict fabrication tolerances and special hardening process ensure reliability and optimum work results
- The ball head on the long limb makes it possible to carry out work in hard-to-access areas



Hexagon insert bit, wrench size of 5.5 / 8 / 13 mm

Description

Socket wrench, hexagon

Wrench size of 5.5 mm

Wrench size of 8 mm

Wrench size of 13 mm

T-handle screwdriver, for Allen screws, ergonomically shaped handle, matt chrome-plated

Size: hex 2 x 100 mm

Size: hex 2.5 x 100 mm

Size: hex 3 x 100 mm

Size: hex 4 x 150 mm

Size: hex 5 x 150 mm

Size: hex 6 x 200 mm

Size: hex 8 x 200 mm

Size: hex 10 x 200 mm

Allen wrench, fully insulated, safety tool in accordance with EN 60900, length: 150 mm, handle width: 110 mm

Wrench size 5 mm, for M6 screws

Wrench size 6 mm, for M8 screws

Wrench size 8 mm, for M10 screws

Allen wrench set, 9-part, 1.5 to 10.0 mm, chrome-plated matt finish, with ball head, incl. bracket

Ordering data

Type	Order No.	Pcs. / Pkt.
SHN 5.5	1209855	10
SHN 8	1209868	1
SHN 13	1209923	1



Allen screw, wrench size 2 - 10 mm



Allen screw (VDE), wrench size of 5 / 6 / 8 mm



Allen screw, L-shaped, 1.5 - 10 mm



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
SF-THEX 2-100	1212637	5						
SF-THEX 2,5-100	1212638	5						
SF-THEX 3-100	1212639	5						
SF-THEX 4-150	1212640	5						
SF-THEX 5-150	1212641	5						
SF-THEX 6-200	1212642	5						
SF-THEX 8-200	1212643	5						
SF-THEX 10-200	1212644	5						
			VDE-ISS 5	1203343	1			
			VDE-ISS 6	1201934	1			
			VDE-ISS 8	1201947	1			
						SF-LHEX SET	1212544	1

Hand tools

SCREWFOX preset torque screwdrivers



- TSD ... SAC torque screwdrivers with a range of preset torques from 0.2 Nm to 2.5 Nm
- A wide variety of SAC ... nuts for all kinds of applications
- With the TSD-M... torque screwdrivers, the torque can be custom-set
- The TSD-M... adapters can accommodate the various nuts



ERIC

Description	Color
Torque screwdriver With preset torque of 0.2 Nm and 4 mm hexagonal drive	black
With preset torque of 0.4 Nm and 4 mm hexagonal drive	black
With a preset torque of 0.8 Nm and a 4 mm hexagonal drive	black
With a preset torque of 2.0 Nm and 4 mm hexagonal drive	black
With a preset torque of 2.5 Nm and 4 mm hexagonal drive	black
Torque screwdrivers Adjustable from 0.3 - 1.2 Nm	black
Adjustable from 1.2 - 3 Nm	black
Adjustable from 3 - 6 Nm	black
Adapter insert , for torque screwdrivers with adjustable torque, for accommodating SAC nuts for 4 mm hexagonal screwdrivers	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
TSD 02 SAC	1208487	1
TSD 04 SAC	1208429	1
TSD 08 SAC	1212597	1
TSD 20 SAC	1212020	1
TSD 25 SAC	1212315	1
TSD-M 1,2NM	1212224	1
TSD-M 3NM	1212225	1
TSD-M 6NM	1212226	1
TSD-M SAC-BIT ADAPTER	1212600	1

Nut
For assembling sensor/actuator cables with M8 connectors and for M8 connectors with insulation displacement connection, for 4 mm hexagonal screwdriver
For assembling SACC M8 connectors with longitudinal knurl, excluding those with insulation displacement connection, for 4 mm hexagonal screwdriver
For assembling sensor/actuator cables with M12 connectors and for M12 connectors with insulation displacement connection, for 4 mm hexagonal screwdriver
For assembling SACC M12 connectors, excluding those with insulation displacement connection, for 4 mm hexagonal screwdriver
For mounting M12 connectors with hexagonal stainless steel knurl, wrench size 14, with 4 mm hexagonal drive
For assembling 7/8" connectors, with 4 mm hexagonal drive
For the reliable tightening of the pressure nuts with a wrench size of 13 mm, for 4 mm hexagonal screwdriver
For reliable tightening of the pressure nuts with a wrench size of 24 mm, for 4 mm hexagonal screwdriver

Accessories		
Type	Order No.	Pcs. / Pkt.
SAC BIT M8-D10	1208461	1
SACC BIT M8-D12	1208474	1
SAC BIT M12-D15	1208432	1
SACC BIT M12-D20	1208445	1
SAC BIT M12-W14	1212513	1
SAC BIT MIN-D25	1212512	1
SAC BIT QUICKON-W13	1212033	1
SAC BIT HOOD-W 24	1212486	1

SCREWFOX universal control cabinet key



1



2



3

– Universal control cabinet key with the following closures:

- 1 = 6 mm, 8 mm square
- 2 = 8 mm triangle
- 3 = 5 mm two-way key bit



Four-way closure

Description
Control cabinet key , metal, for all common types of control cabinet

Ordering data		
Type	Order No.	Pcs. / Pkt.
USS 4	1203149	1

SCREWFOX universal control cabinet key



1



2



3



4

– **Universal control cabinet key**, with strong chain and snap hook, for the following closures:

- 1 = 5, 6, 7-8, 9-10 mm square
- 2 = 7, 8 - 9, 10 - 11 mm triangle
- 3 = 3-5 mm two-way key bit
- 4 = 6 mm semicircle



Nine-way closure

Description
Control cabinet key , metal, for all common types of control cabinet

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-CCK 9	1212525	1

Tools - TOOL fox

Hand tools

TESTFOX phasing and voltage tester

The PROFIPOL voltage tester has the following features:

- DC and AC voltage tests in the range between 6 V and 400 V
- Polarity test (+/-) for DC voltage
- Shock-proof housing that is protected against dust and splash water, IP65
- LED display



Single-position voltage tester



Two-position voltage tester

General data

Voltage range	[V DC]	- ... -
Voltage range	[V AC]	150 ... 250

Description	Color
-------------	-------

Voltage tester, single-position, for 150 - 250 V, conforms to DIN 57680/6 and VDE 0680/6, can also be used as an actuation tool for spring-cage terminal blocks, VDE insulated, with non-slip grip, size: 0.5 x 3.0 x 70 mm

Voltage tester	black
-----------------------	-------

Technical data

Voltage range	[V DC]	- ... -
Voltage range	[V AC]	150 ... 250

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-VT VDE	1212598	10

Technical data

Voltage range	[V DC]	6 ... 400
Voltage range	[V AC]	6 ... 400

Ordering data

Type	Order No.	Pcs. / Pkt.
PROFIPOL	1209101	1

TESTFOX voltage and continuity tester



- DC and AC voltage tests in the range from 12 V to 1000 V AC/1000 V DC
- Acoustic and optical continuity test
- Vibration alarm for safe voltage detection
- Shock-proof housing that is protected against dust and splash water, IP65



Technical data

General data		
Voltage range	[V DC]	12 ... 1000
Voltage range	[V AC]	12 ... 1000

Ordering data

Description	Color
Voltage tester	black

Type	Order No.	Pcs. / Pkt.
DUSPOL EXPERT	1209091	1

TESTFOX, digital current probe multimeter

- The current probes can be used for voltages of up to 600 V, category III
- They combine the functions of a digital multimeter with those of a current probe
- Contained within a compact and practical housing, so ideal for use in cramped conditions
- All measuring ranges are protected against overload



For AC current



For DC and AC current



Technical data	
Display scope	2000 digits
Accuracy of display	1,0 %
AC voltage measuring range	0.1 V ... 600 V
DC voltage measuring range	0.1 V ... 600 V
AC current measuring range	0.1 A ... 400 A
DC current measuring range	- ... -
Resistance measuring range	0.1 Ω ... 20 MΩ
Continuity test range	Acoustic (20 Ω)
Degree of protection	IP30
Measuring category	CAT III 600 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE 0411



Technical data	
Display scope	4000 digits
Accuracy of display	0,5 %
AC voltage measuring range	0.1 mV ... 600 V
DC voltage measuring range	0.1 mV ... 600 V
AC current measuring range	10 mA ... 300 A
DC current measuring range	10 mA ... 300 A
Resistance measuring range	0.1 Ω ... 40 MΩ
Continuity test range	Acoustic (50 Ω)
Degree of protection	IP30
Measuring category	CAT III 300 V / CAT II 600 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE 0411

Ordering data			
Type	Order No.	Pcs. / Pkt.	
TESTFOX CC	1212210	1	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
TESTFOX CC-1	1212211	1	

General data	
Description	Color
Current pliers/multimeter	black
Current pliers/multimeter	black

TESTFOX digital multimeter



For DC and AC voltages

- You are bound to be enthused by the technology of the digital multimeters and impressed by their quality
- The devices are extremely versatile
- Tested and approved according to applicable IEC/EN 61010 standards independently of certification body
- Suitable for measuring AC voltages and resistance as well as testing continuity and diodes
- TESTFOX M-1 also allows you to measure DC and AC currents, capacitance, and frequencies, as well as temperatures within the range of -20°C to +800°C

High-level safety

- Phase voltages can be detected precisely, thanks to the audible and red light signals
- The devices can be used for voltages of up to 600 V category III or 1000 V category II
- They provide professional service technicians and operating engineers with a higher level of protection, thereby ensuring maximum safety during work

Safe cable breakage detection

- Cable breaks and faulty lamps in exposed cables can be traced from the phase infeed side right through to the point of interruption

General data

Display scope
 Accuracy of display
 Volt sensor
 AC voltage measuring range
 DC voltage measuring range
 AC current measuring range
 DC current measuring range
 Resistance measuring range
 Continuity test range
 Frequency measuring range
 Capacity measuring range
 Temperature measuring range
 Diode test
 Degree of protection
 Measuring category
 Voltage supply
 Test certificate

ERC

Technical data

2000 digits
 0.5 %
 yes
 0.1 mV ... 750 V
 0.1 mV ... 1000 V
 - ... -
 - ... -
 0.1 Ω ... 20 MΩ
 Yes (25 Ω)
 - ... -
 - ... -
 - ... -
 Yes (1.5 mA)
 IP30
 CAT III 600 V / CAT II 1000 V
 2 x micro battery 1.5 V, LR03, AAA
 IEC/EN 61010-1, DIN VDE 0411

Description	Color
Digital multimeter	black
Digital multimeter	black

Ordering data

Type	Order No.	Pcs. / Pkt.
TESTFOX M	1212208	1



For DC and AC voltages/currents



Technical data

2000 digits
 0.5 %
 yes
 0.1 mV ... 750 V
 0.1 mV ... 1000 V
 1 mA ... 10 A
 1 mA ... 10 A
 0.1 Ω ... 20 M Ω
 Yes (25 Ω)
 1 Hz ... 20 MHz
 1.00 pF ... 2.00 mF
 -20°C ... 800°C
 Yes (1.5 mA)
 IP30
 CAT III 600 V / CAT II 1000 V
 2 x micro battery 1.5 V, LR03, AAA
 IEC/EN 61010-1, DIN VDE 0411

Ordering data

Type	Order No.	Pcs. / Pkt.
TESTFOX M-1	1212209	1

Tools - TOOL fox

Hand tools

TOOL fox, tool sets for convenient use on site

- Universal tool sets, with cutting, stripping, crimping, and testing tools from the TOOL fox tool range
- Robust and heavy-duty tool bags for long-term use
- With permanently closeable business card pocket
- With various compartments and options for storing tools and materials
- For further sets, visit phoenixcontact.net/products



Tool set in a case



Tool set in a carry case wrap

Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Tool case , equipped with one of each of the following tools: CRIMPFOX 6S-F WIREFOX 10 WIREFOX-D 40 CUTFOX 18 SZF 1-0,6X3,5 5 m tape measure 50 pcs. JBC 2,5/5 junction box connectors TOOL-KIT STANDARD EMPTY	TOOL-KIT STANDARD	1212422	1			
Tool kit , empty, with elastic straps to hold tools of different sizes in place	TOOL-KIT STANDARD EMPTY	1212423	1			
Tool carry case wrap , equipped with one of each of the following tools: CUTFOX-S VDE CUTFOX 16 VDE UNIFOX-C VDE UNIFOX-P VDE SZS 0,4X2,5 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 PROFIPOL TOOL-WRAP EMPTY				TOOL-WRAP	1212505	1
Tool carry-on bag , empty				TOOL-WRAP EMPTY	1212501	1
Tool belt pouch , equipped with one of each of the following tools: CUTFOX-S VDE CUTFOX 18 WIREFOX-D 13 UNIFOX-CE VDE USS 4 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X5,5 SZK PH1 SZK PH2 Cutting knife 5 m tape measure PROFIPOL TOOL-BELTPOUCH EMPTY						
Tool bag , equipped with one of each of the following tools: CUTFOX S VDE CUTFOX 18 WIREFOX 10 VDE WIREFOX-D 13 WIREFOX-D 28 CRIMPFOX-M CRIMPFOX-M 10/DIE UNIFOX-CE VDE UNIFOX-P VDE UNIFOX WP SZS 0,4X2,5 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 PROFIPOL USS 4 Cutting knife 5 m tape measure TOOL CARRIER EMPTY						
Tool bag , with laptop and document compartments, equipped with one of each of the following tools: CUTFOX 25 VDE CUTFOX-S VDE WIREFOX 10 WIREFOX-D 40 CRIMPFOX-M SET UNIFOX-C VDE UNIFOX-P VDE UNIFOX WP SZS 0,4X2,5 SZS 0,5X3,0 SZS 1,0X4,0 SZS 1,0X6,5 SZK PH0 SZK PH1 SZK PH2 DUSPOL EXPERT USS 4 AI SORTI BOX RD Cutting knife 5 m tape measure TOOL-BAG EMPTY						
Tool bag , with document and laptop compartments, empty						



Tool set in a belt pouch



Tool set in a shoulder bag



Tool set in a bag with laptop and document compartments

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH	1212506	1						
TOOL-BELTPOUCH EMPTY	1212502	1						
			TOOL-CARRIER	1212503	1			
			TOOL-CARRIER EMPTY	1212499	1			
						TOOL-BAG	1212504	1
						TOOL-BAG EMPTY	1212500	1

Tools - TOOL fox

Hand tools

TOOL fox, tool sets

- We have put together a number of attractive tool sets for you by selecting products from our comprehensive range of professional tools



Ordering data			
Description	Type	Order No.	Pcs. / Pkt.
<p>Stripping, crimping and cutting set, consisting of: cable cutter for copper and aluminum up to Ø 12 mm, stripping tool for stripping multicore signal, control and fiberglass wires of Ø 2.5 – 11 mm, insulation thickness up to 1 mm, basic pliers for accommodating dies for different contact types, die, for CRIMPFOX-M, for unshielded RJ45 connectors</p>			
<p>Cutting, stripping, and crimping set, comprising: cable cutter for copper and aluminum up to Ø 12 mm, stripping tool for cables and conductors with a cross section of 0.02 – 10 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, crimping pliers for ferrules measuring 0.14 – 10 mm²</p>	TOOL DATA SET	1208856	1
<p>Stripping, crimping, and screwing set, comprising: screwdriver for slotted-head screws, stripping tool for 0.02 – 10 mm² cables and conductors, self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, crimping pliers for ferrules acc. to DIN 46228 Parts 1+4, 0.5 – 6 mm², front insertion, square crimping ferrules, CSA-certified, 50 pcs. each of: Al 0,5-8 WH, Al 2,5-8 BU ferrules, CSA-certified, 100 pcs. each of: Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK</p>			
<p>Range box, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of Al 0,25-6 YE, Al 0,34-6 TQ, Al 0,5-8 WH, Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK, 300 pieces of Al 2,5-8 BU, 200 pieces of Al 4-10 GY, 100 pieces of Al 6-12 YE as well as stripping tool for wires and conductors of up to 6 mm² crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 0.5 – 6 mm², front insertion, trapezoidal crimp</p>			
<p>Range box, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of Al 10-12 RD, 200 pieces of Al 16-12 BU, 100 pieces of Al 25-16 YE as well as stripping tool, for stripping wires of 4,5 - 40 mm, crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm², lateral insertion, WM crimp</p>			
<p>Assortment box, metal, no components mounted</p>			

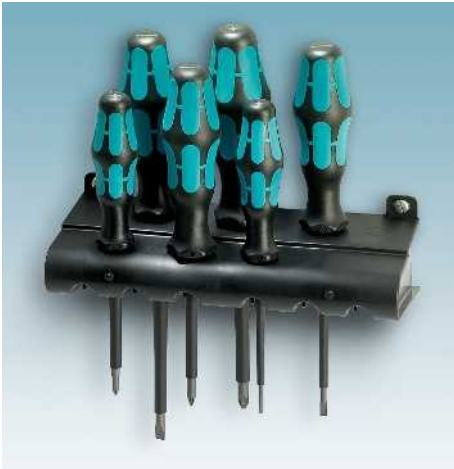


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Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
TOOL SET ALLROUND 2	1208843	1						
			TOOL-SET ALLROUND 3	1208953	1			
						CRIMPSET 6	1202072	1
						CRIMPSET 25	1202580	1
						CRIMPSET 6/25 LEER	1204041	1

Hand tools

TOOL fox, screwdriver set



- The SF-SL ... screwdriver sets are available with a variety of contents
- Wall-mountable screwdriver rack included

Notes:
 Pozidriv®/Supadriv®, trademarks of European Ind. Serv. Ltd.
 Phillips Recess®, trademark of Phillips Screw Company
 Torx®, trademark of Acument Intellectual Properties, LLC, Troy, Mich., US



Description
Screwdriver set , slotted/Phillips Recess® 6-part, incl. rack, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PH 1, PH 2
Screwdriver set , slotted/Pozidriv® cross-recessed, 6-part, incl. rack, contents: 0.5 x 3.0 x 80; 0.8 x 4.0 x 100; 1.0 x 5.5 x 150; 1.2 x 6.5 x 150, PZ 1, PZ 2
Screwdriver set , slotted/Pozidriv® cross-recessed, VDE insulated, 6-part, incl. rack, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PZ 1, PZ 2
Screwdriver set , slotted/Phillips Recess®, VDE insulated, 6-part, incl. rack, contents: 0.4 x 2.5 x 80; 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH 1, PH 2
Screwdriver set , protective insulation integrated into shaft, bladed/Phillips crosshead/combined profile, Pozidriv® + bladed (plus-minus), insulated according to VDE, 7-piece, including rack, set contains the following products: 0.6 x 3.5 x 100; 0.8 x 4.0 x 100; 1.0 x 5.5 x 125; PH1 x 80; PH2 x 100; PZ1 x 80; PZ2 x 100
Screwdriver set , Torx® with drill bit, 6-part, incl. rack, contents: TX 8 x 60; TX 10 x 80; TX 15 x 80; TX 20 x 100; TX 25 x 100; TX 30 x 115
Screwdriver set , Torx®, VDE insulated, 6-part, incl. rack, contents: TX 8 x 80; TX 10 x 80; TX 15 x 80; TX 20 x 80; TX 25 x 100; TX 30 x 100

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-SL/PH SET	1212541	1
SF-SL/PZ SET	1212542	1
SF-SL/PZ SET VDE	1212540	1
SF-SL/PH SET VDE	1212539	1
SF-SL/PH/PZ-SL SET S-VDE	1212701	1
SF-TXH SET	1212538	1
SF-TX SET VDE	1212537	1



TOOL fox, bit set



- Bit set, in compact plastic box, with quick-change bit holder and the following 25 mm long bits: 0.8 x 5.5, 1.0 x 5.5, 1.2 x 6.5, PH1, PH2, PH3, PZ1, PZ2, PZ3
- Clearly arranged storage
- Bits can be accessed quickly, thanks to convenient, one-handed opening mechanism
- Equipped with hardened bits for durability



Description

Bit set, with SF-UBH universal bit holder, 25 mm long slotted/cross-recessed (PZ and PH) bits, 10-part

Battery-powered screwdriver bit set, 1 attachment set each in 5.5 mm, 8 mm, 13 mm, adapter to 1/4"

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-BIT SET	1212545	10
ASD BIT SET HN	1209952	1

TOOL fox, screwdriver set



- Bit screwdriver set, packed in a practical belt pouch
- Equipped with the most common types of screw bit



Description

Bit screwdriver set with quick-action chuck, 89 mm long slotted/cross-recessed (PZ and PH)/hex / Torx® bits, 17-part, in folding belt pouch, contents: PH 1,2,3 x 89; PZ 1,2,3 x 89; SL 1.5 x 5.5 x 89; TX 10-30 x 89; SW 3,4,5,6 x 89

Bit screwdriver set with quick-action chuck, 89 mm long slotted/crosshead/hex/Torx® bits, 17-piece, in folding belt pouch, contents: PH 1, 2, 3 x 89, SL 0.4 x 2.5, 0.6 x 3.5, 0.8 x 3.5, 1.0 x 5.5, 1.2 x 6.5 x 89, TX 10-30, SW 3, 4, 5 x 89

Ordering data

Type	Order No.	Pcs. / Pkt.
SF-M SET	1212543	1
SF-M SET 2	1212756	1

Hand tools

CRIMPFOX pliers, laser marked according to customer specifications



- Customize your crimping tool!
- You can now use robust laser engraving to mark CRIMPFOX pliers
- Individual laser marking prevents your tools from being mixed up

Notes:
 Matching accessories can be found in main catalog 5 or the product area on our website at phoenixcontact.net/products.
¹⁾ Tools with customer-specific laser marking can be ordered quickly and easily in the product area on our website at phoenixcontact.net/products.

- The advantages of our CRIMPFOX tools:
- Consistently high crimping quality
 - Unlockable pressure lock
 - Marked die stations for precise processing of the relevant cross sections
 - Easy work, thanks to improved force transfer
 - Ergonomically designed, non-slip handles

Description

Crimping pliers, for ferrules, according to DIN 46228-1 and -4, five marked die stations, **laser marked according to customer specifications¹⁾**

Lateral entry, 0.25 - 6.0 mm², unlockable pressure lock, trapezoidal crimp

Front insertion, 0.5 - 6 mm², square crimp

Crimping pliers, unlockable pressure lock, lateral entry, oval crimp, **laser marked according to customer specifications¹⁾**

For insulated cable lugs (light green, red), 0.14 - 1 mm², three marked die stations

For insulated cable lugs (red, blue), 0.75 - 2.5 mm², two marked die stations

Crimping pliers, for uninsulated cable lugs, three marked die stations, 0.34 - 2.5 mm², unlockable pressure lock, lateral entry, indent crimp, **laser marked according to customer specifications¹⁾**

Crimping pliers, for uninsulated slip-on sleeves 2.8/4.8/6.3 mm, three marked die stations, B-crimp, 0.1 - 1.5 mm², unlockable pressure lock, lateral entry, **laser marked according to customer specifications¹⁾**

Crimping pliers, for ferrules according to DIN 46228-1 and -4, self-adjusting die, trapezoidal crimp, 0.5 - 6 mm², unlockable pressure lock, **laser marked according to customer specifications¹⁾**

Front insertion
 Lateral entry

Crimping pliers, three marked die stations, 0.75 - 6 mm², oval crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications¹⁾**

For insulated cable lugs, symmetrical (red, blue, yellow)
 For insulated cable lugs, asymmetrical (red, blue, yellow)

Crimping pliers, for ferrules according to DIN 46228-1 and -4, WM crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications¹⁾**

Three marked die stations, 10 - 25 mm²

Two marked die stations, 35 - 50 mm²

TOOLS FOR YOU



TOOLS FOR YOU



TOOLS FOR YOU



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6 CUS	1212767	1						
CRIMPFOX 6S-F CUS	1212769	1						
CRIMPFOX-RCI 1 CUS	1212772	1						
CRIMPFOX-RCI 2,5 CUS	1212773	1						
CRIMPFOX-RC 2,5 CUS	1212777	1						
CRIMPFOX-SC 1,5 CUS	1212779	1						
			CRIMPFOX 6T-F CUS	1212771	1			
			CRIMPFOX 6T CUS	1212770	1			
						CRIMPFOX-RCI 6 CUS	1212774	1
						CRIMPFOX-RCI 6-1 CUS	1212775	1
						CRIMPFOX 25R CUS	1212765	1
						CRIMPFOX 50R CUS	1212766	1

Hand tools

CRIMPFOX and WIREFOX pliers, laser marked according to customer specifications



- Customize your crimping and stripping tool!
- You can now use robust laser engraving to mark CRIMPFOX and WIREFOX pliers
- Individual laser marking prevents your tools from being mixed up

Notes:
Matching accessories can be found in main catalog 5 or the product area on our website at phoenixcontact.net/products .
¹⁾ Tools with customer-specific laser marking can be ordered quickly and easily in the product area on our website at phoenixcontact.net/products .

- The advantages of our WIREFOX tools:
- The special spring mechanism helps you to work precisely and safely
 - Ergonomically designed, non-slip handles
 - The WIREFOX pliers automatically adjust to different insulations and conductor diameters
 - Highly adjustable limit stop for the stripping length
 - Practical integrated wire cutter
 - Easily replaceable blade cassettes for different cross sections and insulation

Description

Crimping pliers, for uninsulated cable lugs, three marked die stations, indent crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications¹⁾**

4 - 10 mm²
10 - 25 mm²

Crimping pliers, for uninsulated slip-on sleeves 2.8/4.8/6.3 mm, three marked die stations, 0.5 - 6 mm², B-crimp, unlockable pressure lock, lateral entry, **laser marked according to customer specifications¹⁾**

Crimping pliers, for ferrules according to DIN 46228, unlockable pressure lock, lateral entry, **laser marked according to customer specifications¹⁾**

Square crimp, 0.14 - 10 mm²

HEX crimp, 0.14 - 6 mm²

Stripping tool, self-adjusting, easily replaceable blade cassettes, stripping length of up to 18 mm, cutting capacity: up to 1.5 mm² solid, up to 10 mm² stranded, **laser marked according to customer specifications¹⁾**

For cables and conductors from 0.1 - 4 mm², specifically also intended for rubber and other kinds of special insulation

For cables and conductors from 1.5 - 6 mm², specifically for short-circuit-proof cables and rubber insulation

For standard cables and conductors from 0.02 - 10 mm²

For standard cables and conductors from 4 - 16 mm²

TOOLS FOR YOU



TOOLS FOR YOU



TOOLS FOR YOU



Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 10 CUS	1212776	1						
CRIMPFOX-RC 25 CUS	1212778	1						
CRIMPFOX-SC 6 CUS	1212780	1						
			CRIMPFOX 10S CUS	1212764	1			
			CRIMPFOX 6H CUS	1212768	1			
						WIREFOX 4 CUS	1212762	1
						WIREFOX 6SC CUS	1212763	1
						WIREFOX 10 CUS	1212760	1
						WIREFOX 16 CUS	1212761	1

Tools - TOOL fox

Hand tools

CUS tool sets, equipped with tools according to customer requirements



You can put together your own CUS tool set according to your individual requirements

- Six different bags are available, designed for typical applications
- Products are configured and ordered with web code:

i #0290

TOOLS FOR YOU



Tool case, lockable, with straps

Description

Toolbox, lockable, with adjustable strap, equipped with: cable cutter, diagonal cutter, micro cutter, stripping and sheath stripping tools, crimping tool set, combination, needle-nose, and water pump pliers, VDE bladed and Phillips screwdrivers, control cabinet key, voltage tester, ferrule box, blades, tape measure, continuity tester, marking tool, ring, open-end, and adjustable wrench set, T-handle hexagonal wrench, safety glasses, hammer, 41-piece ratchet socket wrench set, 1/4"

Tool case, empty, lockable, with permanently closeable business card pocket, very comfortable to carry thanks to padded strap, with document compartment

Tool case, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-CASE	1212629	1
TOOL-CASE EMPTY	1212628	1
TOOL-CASE CUS	1200072	1

CUS tool sets, equipped with tools according to customer requirements

- Products are configured and ordered with web code:

i #0290

TOOLS FOR YOU



Tool bag, with document and laptop compartments

TOOLS FOR YOU



Tool bag, with strap

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-BAG CUS	1200081	1

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-CARRIER CUS	1200082	1

Description

Tool bag, with adjustable straps, with document and laptop compartments, equipped with tools according to customer requirements

Tool bag, with strap, equipped with tools according to customer requirements

CUS tool sets, equipped with tools according to customer requirements



- Individual tool sets, with cutting, stripping, crimping, installation, and testing tools from the TOOL fox tool range
- Rugged and heavy-duty tool bags
- Products are configured and ordered with web code:

i #0290

TOOLS FOR YOU



Tool belt pouch

Description

Tool belt pouch, with two robust internal pockets, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH CUS	1200084	1

CUS tool sets, equipped with tools according to customer requirements

- Products are configured and ordered with web code:

i #0290

TOOLS FOR YOU



Tool case

TOOLS FOR YOU



Wrap-up tool bag

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-KIT CUS	1200085	1

Description

Tool case, with elastic straps to hold the tools in place, equipped with tools according to customer requirements

Tool wrap, equipped with tools according to customer requirements

Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-WRAP CUS	1200083	1

Hand tools

Tool case with customized marking

new



- A business card sized label is available for customization. This can be marked according to customer requirements
- Products are configured and ordered with web code:

i #0290



Description
Tool case , with permanently closable business card pocket, with US EMP (85.6 x 54) marking label marked according to customer requirements

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-CASE EMPTY CUS	8191312	1

Tool bags with customized marking

new

new

- The tool bags impress with their hard-wearing materials and robust construction
- Products are configured and ordered with web code:

i #0290



Description
Tool bag , with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements
Tool bag , with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-BAG EMPTY CUS	8191308	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-CARRIER EMPTY CUS	8191310	1

new

Tool belt pouch with customized marking



- The business card pocket can be permanently closed using the plastic rivets supplied as standard
- Products are configured and ordered with web code:

i #0290

Description
Tool belt pouch, with permanently closable business card pocket, with US EMP (85.6 x 54) marking label marked according to customer requirements

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-BELTPOUCH EMPTY CUS	8191311	1

Tool kit, tool wrap with customized marking

new

new

- No risk of switching tool bags thanks to the clearly printed labels
- Products are configured and ordered with web code:

i #0290



Description
Tool kit, with permanently closeable business card pocket, with US EMP (85.6 x 54) marking label, marked according to customer requirements

Tool wrap, with permanently closeable business card pocket, with marking label US EMP (85.6 x 54) marked according to customer requirements

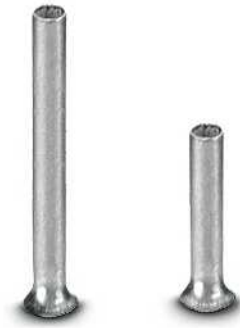
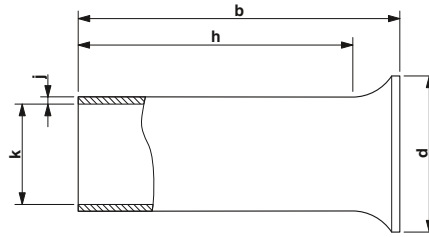
Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-KIT STANDARD EMPTY CUS	8191307	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
TOOL-WRAP EMPTY CUS	8191309	1

Hand tools

Ferrules without insulating collar, according to DIN 46228-1

- The ferrules without plastic sleeve are made from soft tin-plated electrolytic copper
- The dimensions of the ferrules conform to DIN 46228-1
- The A 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Conductor cross sections from 0.14 to 35 mm²

Notes:
 1) These ferrules are not included in DIN 46228-4:1990-09.



General data
Material / coating

Technical data							
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Technical data		
E-CU / tin-plated (galvanic)		

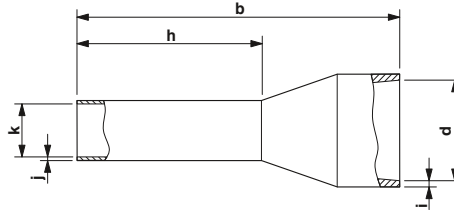
Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, without plastic sleeves, CSA-certified			
	0.25 ¹⁾	24	silver
	0.25 ¹⁾	24	silver
	0.34 ¹⁾	22	silver
	0.5	20	silver
	0.5 ¹⁾	20	silver
	0.5	20	silver
	0.75	18	silver
	0.75 ¹⁾	18	silver
	0.75	18	silver
	1	18	silver
	1 ¹⁾	18	silver
	1	18	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	2.5	14	silver
	2.5	14	silver
	2.5	14	silver
	4	12	silver
	4	12	silver
	4	12	silver
	6	10	silver
	6	10	silver
	10	8	silver
	10	8	silver
	16	6	silver
	25 ¹⁾	4	silver
	25	4	silver
	25	4	silver
	25 ¹⁾	4	silver
	25	4	silver
	35	2	silver
	35 ¹⁾	2	silver
	35	2	silver
	50	1/0	silver
	70	2/0	silver
	95	3/0	silver

Dimensions [mm]							
a	b	d	h	i	j	k	
-	5.00	1.70	-	-	0.15	0.80	
-	7.00	1.70	-	-	0.15	0.80	
-	7.00	1.80	-	-	0.15	0.90	
-	6.00	2.10	-	-	0.15	1.00	
-	8.00	2.10	-	-	0.15	1.00	
-	10.00	2.10	-	-	0.15	1.00	
-	6.00	2.30	-	-	0.15	1.20	
-	8.00	2.30	-	-	0.15	1.20	
-	10.00	2.30	-	-	0.15	1.20	
-	6.00	2.50	-	-	0.15	1.40	
-	8.00	2.50	-	-	0.15	1.40	
-	10.00	2.50	-	-	0.15	1.40	
-	7.00	2.80	-	-	0.15	1.70	
-	10.00	2.80	-	-	0.15	1.70	
-	12.00	2.80	-	-	0.15	1.70	
-	15.00	2.80	-	-	0.15	1.70	
-	18.00	2.80	-	-	0.15	1.70	
-	7.00	3.40	-	-	0.15	2.20	
-	12.00	3.40	-	-	0.15	2.20	
-	18.00	3.40	-	-	0.15	2.20	
-	9.00	4.00	-	-	0.20	2.80	
-	12.00	4.00	-	-	0.20	2.80	
-	18.00	4.00	-	-	0.20	2.80	
-	10.00	4.70	-	-	0.20	3.50	
-	12.00	4.70	-	-	0.20	3.50	
-	12.00	5.80	-	-	0.20	4.50	
-	18.00	5.80	-	-	0.20	4.50	
-	12.00	7.50	-	-	0.20	5.80	
-	12.00	9.50	-	-	0.20	7.30	
-	15.00	9.50	-	-	0.20	7.30	
-	18.00	9.50	-	-	0.20	7.30	
-	20.00	9.50	-	-	0.20	7.30	
-	40.00	9.50	-	-	0.20	7.30	
-	18.00	11.00	-	-	0.20	8.30	
-	20.00	11.00	-	-	0.20	8.30	
-	40.00	11.00	-	-	0.20	8.20	
-	40.00	13.00	-	-	0.30	10.30	
-	40.00	15.00	-	-	0.40	12.50	
-	40.00	17.00	-	-	0.40	14.50	

Ordering data		
Type	Order No.	Pcs. / Pkt.
A 0,25- 5	3202465	1000
A 0,25- 7	3202478	1000
A 0,34- 7	3009202	1000
A 0,5- 6	3200218	1000
A 0,5- 8	3202481	1000
A 0,5-10	3202494	1000
A 0,75- 6	3200221	1000
A 0,75- 8	3202504	1000
A 0,75-10	3200234	1000
A 1- 6	3200247	1000
A 1- 8	3202517	1000
A 1-10	3200250	1000
A 1,5- 7	3200263	1000
A 1,5-10	3200276	1000
A 1,5-12	3202588	1000
A 1,5-15	3202591	1000
A 1,5-18	3202601	1000
A 2,5- 7	3200289	1000
A 2,5-12	3200292	1000
A 2,5-18	3202821	1000
A 4- 9	3200302	1000
A 4-12	3200315	1000
A 4-18	3202834	1000
A 6-10	3202520	500
A 6-12	3200328	500
A 10-12	3200331	500
A 10-18	3200344	500
A 16-12	3200425	100
A 25-12	3200357	100
A 25-15	3200360	100
A 25-18	3200373	100
A 25-20	3200386	100
A 25-40	3241238	100
A 35-18	3200399	100
A 35-20	3200409	100
A 35-40	3241239	100
A 50-40	3241240	100
A 70-40	3241241	100
A 95-40	3241242	100

Ferrules with insulating collar, according to DIN 46228-4

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- The insulation reliability of close connections is increased and the splicing of wires is prevented
- The AI 0,25.. can also be used to process conductors with a cross section of 0.14 mm²



Notes:
 1) These ferrules are not included in DIN 46228-4:1990-09.



Conductor cross sections from 0.14 to 120 mm²



General data	
Material / coating	E-CU / tin-plated (galvanic)
Plastic sleeve material	polypropylene
Long/short-term temperature	105°C / 120°C

Technical data							
a	b	d	h	i	j	k	

Technical data		
E-CU / tin-plated (galvanic)		
polypropylene		
105°C / 120°C		

Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified			
	0.25 ¹⁾	22	yellow
	0.25 ¹⁾	22	yellow
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5 ¹⁾	20	white
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	0.75	18	gray
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1.5 ¹⁾	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	2.5	14	blue
	2.5	14	blue
	2.5 ¹⁾	14	blue
	2.5	14	blue
	2.5	14	blue
	4	12	gray
	4	12	gray
	4	12	gray
	6	10	yellow
	6	10	yellow
	10	8	red
	10	8	red
	16	6	blue
	16	6	blue
	25	4	yellow
	25	4	yellow
	25	4	yellow
	35	2	red
	35	2	red
	35	2	red
	50	1/0	blue
	50	1/0	blue
	70 ¹⁾	2	yellow
	95 ¹⁾	4	red
	120 ¹⁾	5	blue

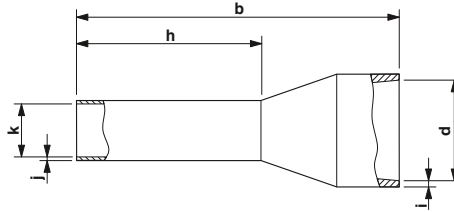
Dimensions [mm]							
a	b	d	h	i	j	k	
-	10.50	2.00	6.00	0.25	0.15	0.80	
-	12.50	2.00	8.00	0.25	0.15	0.80	
-	12.00	2.50	6.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	16.00	2.50	10.00	0.25	0.15	1.10	
-	18.00	2.50	12.00	0.25	0.15	1.10	
-	12.00	2.80	6.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	16.00	2.80	10.00	0.25	0.15	1.30	
-	18.00	2.80	12.00	0.25	0.15	1.30	
-	12.00	3.00	6.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	16.00	3.00	10.00	0.30	0.15	1.50	
-	18.00	3.00	12.00	0.30	0.15	1.50	
-	12.00	3.40	6.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	16.00	3.40	10.00	0.30	0.15	1.80	
-	18.00	3.40	12.00	0.30	0.15	1.80	
-	24.00	3.40	18.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	17.00	4.20	10.00	0.30	0.15	2.30	
-	18.00	4.20	12.00	0.30	0.15	2.30	
-	24.00	4.20	18.00	0.30	0.15	2.30	
-	17.00	4.80	10.00	0.30	0.20	2.80	
-	20.00	4.80	12.00	0.30	0.20	2.80	
-	26.00	4.80	18.00	0.30	0.20	2.80	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	26.00	6.20	18.00	0.30	0.20	3.50	
-	22.00	7.50	12.00	0.30	0.20	4.60	
-	28.00	7.50	18.00	0.30	0.20	4.60	
-	24.00	8.80	12.00	0.40	0.20	5.80	
-	29.00	8.80	18.00	0.40	0.20	5.80	
-	30.00	11.00	16.00	0.50	0.20	7.30	
-	32.00	11.00	18.00	0.50	0.20	7.30	
-	36.00	11.00	22.00	0.50	0.20	7.30	
-	30.00	12.50	16.00	0.50	0.20	8.30	
-	32.00	12.50	18.00	0.50	0.20	8.30	
-	39.00	12.50	25.00	0.50	0.20	8.30	
-	36.00	15.00	20.00	0.60	0.35	10.30	
-	40.00	15.00	25.00	0.60	0.35	10.30	
-	37.00	16.00	20.00	0.60	0.35	12.70	
-	44.00	18.00	25.00	0.60	0.35	14.70	
-	48.00	21.00	27.00	0.70	0.45	16.70	

Ordering data		
Type	Order No.	Pcs. / Pkt.
AI 0,25- 6 YE	3203024	100
AI 0,25- 8 YE	3203037	100
AI 0,5 - 6 WH	3200687	100
AI 0,5 - 8 WH	3200014	100
AI 0,5 - 8 WH -1000	3200881	1000
AI 0,5 -10 WH	3201275	100
AI 0,5 -12 WH	3200506	100
AI 0,75- 6 GY	3200690	100
AI 0,75- 8 GY	3200519	100
AI 0,75- 8 GY -1000	3200894	1000
AI 0,75-10 GY	3201288	100
AI 0,75-12 GY	3200849	100
AI 1 - 6 RD	3200742	100
AI 1 - 8 RD	3200030	100
AI 1 - 8 RD -1000	3200904	1000
AI 1 -10 RD	3200182	100
AI 1 -12 RD	3200674	100
AI 1,5 - 6 BK	3200755	100
AI 1,5 - 8 BK	3200043	100
AI 1,5 - 8 BK -1000	3200917	1000
AI 1,5 -10 BK	3200195	100
AI 1,5 -12 BK	3201482	100
AI 1,5 -18 BK	3200056	100
AI 2,5 - 8 BU	3200522	100
AI 2,5 - 8 BU -1000	3200920	1000
AI 2,5 -10 BU	3202533	100
AI 2,5 -12 BU	3200962	100
AI 2,5 -18 BU	3200580	100
AI 4 -10 GY	3200535	100
AI 4 -12 GY	3200959	100
AI 4 -18 GY	3200593	100
AI 6 -12 YE	3200548	100
AI 6 -18 YE	3200603	100
AI 10 -12 RD	3200551	100
AI 10 -18 RD	3200616	100
AI 16 -12 BU	3200564	100
AI 16 -18 BU	3200629	100
AI 25 -16 YE	3200577	50
AI 25 -18 YE	3201505	50
AI 25 -22 YE	3200700	50
AI 35 -16 RD	3200441	50
AI 35 -18 RD	3201495	50
AI 35 -25 RD	3200713	50
AI 50 -20 BU	3200454	50
AI 50 -25 BU	3200726	25
AI 70 -20 YE	3201848	25
AI 95 -25 RD	3201853	25
AI120 -27 BU	3201822	25

Hand tools

Ferrules with insulating collar with color code in acc. with NF C 63-023

- In terms of dimensions, these ferrules conform to DIN 46228-4: 1990-09
- The color code of the plastic insulating collar is based on the French standard NF C 63-023: 1994-02
- The metal sleeves are made from soft tin-plated electrolytic copper



Conductor cross sections from 0.5 to 50 mm²

Notes:
1) These ferrules are not included in DIN 46228-4:1990-09.



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

Technical data

E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

Ordering data

Description	Cross section		Color
	[mm ²]	AWG	

Ferrules, with plastic sleeve, color code as per NF C 63-023: 1994-02, CSA-certified

Dimensions [mm]							
a	b	d	h	i	j	k	

Type	Order No.	Pcs. / Pkt.
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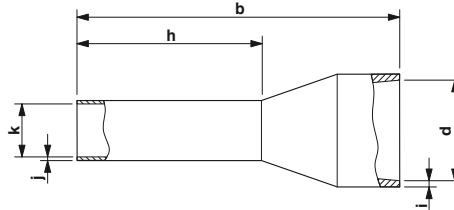
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5 ¹⁾	20	white
	0.75	18	blue
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1.5 ¹⁾	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	1.5	16	black
	2.5	14	gray
	2.5	14	gray
	2.5	14	gray
	4	12	orange
	4	12	orange
	4	12	orange
	6	10	green
	6	10	green
	10	8	brown
	10	8	brown
	16	6	ivory
	25	4	black
	25	4	black
	35	2	red
	35	2	red
	50	1/0	blue
	50	1/0	blue

-	12.00	2.50	6.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	14.00	2.50	8.00	0.25	0.15	1.10	
-	16.00	2.50	10.00	0.25	0.15	1.10	
-	18.00	2.50	12.00	0.25	0.15	1.10	
-	14.00	2.80	8.00	0.25	0.15	1.30	
-	12.00	3.00	6.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	14.00	3.00	8.00	0.30	0.15	1.50	
-	16.00	3.00	10.00	0.30	0.15	1.50	
-	18.00	3.00	12.00	0.30	0.15	1.50	
-	12.00	3.40	6.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	14.00	3.40	8.00	0.30	0.15	1.80	
-	16.00	3.40	10.00	0.30	0.15	1.80	
-	18.00	3.40	12.00	0.30	0.15	1.80	
-	24.00	3.40	18.00	0.30	0.15	1.80	
-	14.00	4.20	8.00	0.30	0.15	2.30	
-	18.00	4.20	12.00	0.30	0.15	2.30	
-	24.00	4.20	18.00	0.30	0.15	2.30	
-	17.00	4.80	10.00	0.30	0.20	2.80	
-	20.00	4.80	12.00	0.30	0.20	2.80	
-	26.00	4.80	18.00	0.30	0.20	2.80	
-	20.00	6.20	12.00	0.30	0.20	3.50	
-	26.00	6.20	18.00	0.30	0.20	3.50	
-	22.00	7.50	12.00	0.30	0.20	4.60	
-	28.00	7.50	18.00	0.30	0.20	4.60	
-	24.00	8.80	12.00	0.40	0.20	5.80	
-	30.00	11.00	16.00	0.50	0.20	7.30	
-	36.00	11.00	22.00	0.50	0.20	7.30	
-	30.00	12.50	16.00	0.50	0.20	8.30	
-	39.00	12.50	25.00	0.50	0.20	8.30	
-	36.00	15.00	20.00	0.60	0.35	10.30	
-	40.00	15.00	25.00	0.60	0.35	10.30	

AI 0,5 - 6 WH	3200687	100
AI 0,5 - 8 WH	3200014	100
AI 0,5 - 8 WH -1000	3200881	1000
AI 0,5 -10 WH	3201275	100
AI 0,5 -12 WH	3200506	100
AI 0,75- 8 BU	3200027	100
AI 1 - 6 RD	3200742	100
AI 1 - 8 RD	3200030	100
AI 1 - 8 RD -1000	3200904	1000
AI 1 -10 RD	3200182	100
AI 1 -12 RD	3200674	100
AI 1,5 - 6 BK	3200755	100
AI 1,5 - 8 BK	3200043	100
AI 1,5 - 8 BK -1000	3200917	1000
AI 1,5 -10 BK	3200195	100
AI 1,5 -12 BK	3201482	100
AI 1,5 -18 BK	3200056	100
AI 2,5 - 8 GY	3200069	100
AI 2,5 -12 GY	3200205	100
AI 2,5 -18 GY	3200072	100
AI 4 -10 OG	3200085	100
AI 4 -12 OG	3200438	100
AI 4 -18 OG	3200098	100
AI 6 -12 GN	3200108	100
AI 6 -18 GN	3200111	100
AI 10 -12 BN	3200124	100
AI 10 -18 BN	3200137	100
AI 16 -12 IV	3201181	100
AI 25 -16 BK	3200412	50
AI 25 -22 BK	3200739	50
AI 35 -16 RD	3200441	50
AI 35 -25 RD	3200713	50
AI 50 -20 BU	3200454	50
AI 50 -25 BU	3200726	25

Ferrules with insulating collar in special colors

- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- In terms of dimensions, they conform to DIN 46228-4: 1990-09



Notes:
 1) These ferrules are not included in DIN 46228-4:1990-09.



Conductor cross sections from 0.14 to 120 mm²

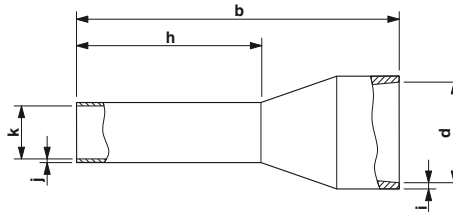


General data				Technical data								Technical data		
Material / coating												E-CU / tin-plated (galvanic)		
Plastic sleeve material												polypropylene		
Long/short-term temperature												105°C / 120°C		
Description				Dimensions [mm]								Ordering data		
Cross section		Color		a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.	
[mm ²]	AWG													
0.14	24	gray	-	12.50	2.00	8.00	0.25	0.15	0.80		AI 0,14- 8 GY -1000	3203011	1000	
0.25 ¹⁾	22	blue	-	10.50	2.00	6.00	0.25	0.15	0.80		AI 0,25- 6 BU	3203040	100	
0.25 ¹⁾	22	blue	-	16.50	2.00	12.00	0.25	0.15	0.80		AI 0,25-12 BU	3200632	100	
0.34 ¹⁾	22	turquoise	-	10.50	2.00	6.00	0.25	0.15	0.80		AI 0,34- 6 TQ	3203053	100	
0.34 ¹⁾	22	turquoise	-	12.50	2.00	8.00	0.25	0.15	0.80		AI 0,34- 8 TQ	3203066	100	
0.34 ¹⁾	22	turquoise	-	16.50	2.00	12.00	0.25	0.15	0.80		AI 0,34-12 TQ	3200645	100	
0.5	20	orange	-	12.00	2.50	6.00	0.25	0.15	1.10		AI 0,5 - 6 OG	3201301	100	
0.5	20	orange	-	14.00	2.50	8.00	0.25	0.15	1.10		AI 0,5 - 8 OG	3201123	100	
0.5	20	orange	-	14.00	2.50	10.00	0.25	0.15	1.10		AI 0,5 -10 OG	3241126	500	
0.75	18	white	-	12.00	2.80	6.00	0.25	0.15	1.30		AI 0,75- 6 WH	3201314	100	
0.75	18	white	-	14.00	2.80	8.00	0.25	0.15	1.30		AI 0,75- 8 WH	3201110	100	
1	18	yellow	-	12.00	3.00	6.00	0.30	0.15	1.50		AI 1 - 6 YE	3201327	100	
1	18	yellow	-	14.00	3.00	8.00	0.30	0.15	1.50		AI 1 - 8 YE	3201097	100	
1.5	16	red	-	14.00	3.40	8.00	0.30	0.15	1.80		AI 1,5 - 8 RD	3201136	100	
1.5	16	red	-	14.00	3.40	18.00	0.30	0.15	1.80		AI 1,5 -18 RD	3241125	500	
2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30		AI 2,5 - 8 BU	3200522	100	
2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30		AI 2,5 - 8 BU -1000	3200920	1000	
2.5	14	blue	-	18.00	4.20	12.00	0.30	0.15	2.30		AI 2,5 -12 BU	3200962	100	
2.5	14	blue	-	24.00	4.20	18.00	0.30	0.15	2.30		AI 2,5 -18 BU	3200580	100	
4	12	gray	-	17.00	4.80	10.00	0.30	0.20	2.80		AI 4 -10 GY	3200535	100	
4	12	gray	-	20.00	4.80	12.00	0.30	0.20	2.80		AI 4 -12 GY	3200959	100	
4	12	gray	-	26.00	4.80	18.00	0.30	0.20	2.80		AI 4 -18 GY	3200593	100	
6	10	black	-	20.00	6.20	12.00	0.30	0.20	3.50		AI 6 -12 BK	3201107	100	
10	8	ivory	-	22.00	7.50	12.00	0.30	0.20	4.60		AI 10 -12 IV	3201068	100	
16	6	green	-	24.00	8.80	12.00	0.40	0.20	5.80		AI 16 -12 GN	3201152	100	
16	6	green	-	28.00	8.80	18.00	0.40	0.20	5.80		AI 16 -18 GN	3201330	100	
25	4	brown	-	30.00	11.00	16.00	0.50	0.20	7.30		AI 25 -16 BN	3201084	50	
35	2	beige	-	30.00	12.50	16.00	0.50	0.20	8.30		AI 35 -16 BE	3201071	50	
50	1/0	olive	-	36.00	15.00	20.00	0.60	0.35	10.30		AI 50 -20 OL	3201178	50	
95 ¹⁾	4	red	-	44.00	18.00	25.00	0.60	0.35	14.70		AI 95 -25 RD	3201853	25	
120 ¹⁾	5	blue	-	48.00	21.00	27.00	0.70	0.45	16.70		AI120 -27 BU	3201822	25	

Hand tools

Ferrules for special applications

- These ferrules enable practical crimping of conductors with increased insulation
- Due to the increased diameter of the insulating collar, this type of ferrule is specifically used with AWG cables



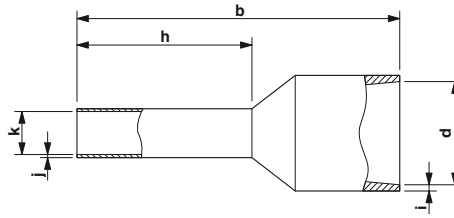
Conductor cross sections from 0.5 to 1.5 mm²

® EAC

General data			Technical data								Technical data			
Material / coating											E-CU / tin-plated (galvanic)			
Plastic sleeve material											polypropylene			
Long/short-term temperature											105°C / 120°C			
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm ²]	AWG		a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.	
Ferrules, with plastic sleeves, CSA-certified														
	0.5	20	white	-	13.50	3.00	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH-GB	1208966	500	
	0.5	20	white	-	15.50	3.00	10.00	0.25	0.15	1.10	AI 0,5-10 WH-GB	3203150	100	
	0.75	18	gray	-	14.00	3.40	8.00	0.25	0.15	1.30	AI 0,75- 8 GY-GB	1208979	500	
	0.75	18	gray	-	16.00	3.40	10.00	0.25	0.15	1.30	AI 0,75-10 GY-GB	3203163	100	
	1	18	red	-	14.00	3.40	8.00	0.30	0.15	1.50	AI 1 - 8 RD-GB	1208982	500	
	1	18	red	-	16.00	3.40	10.00	0.30	0.15	1.50	AI 1 -10 RD-GB-1000	1208869	1000	
	1.5	16	black	-	14.00	3.70	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK-GB-1000	3202892	1000	
	1.5	16	black	-	16.00	3.70	10.00	0.30	0.15	1.80	AI 1,5 -10 BK-GB-1000	1208872	1000	

Ferrules for special applications

- Suitable for conductors with thicker insulation, such as short-circuit-proof conductors



Conductor cross sections from 1.5 to 16 mm²

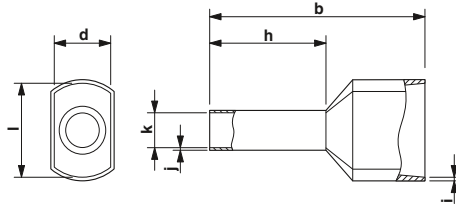


General data				Technical data							Technical data		
Material / coating											E-CU / tin-plated (galvanic)		
Plastic sleeve material											polypropylene		
Long/short-term temperature											105°C / 120°C		
Description				Dimensions [mm]							Ordering data		
		Cross section [mm ²]	AWG	a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified													
		1.5	16	-	17.50	7.00	8.00	0.30	0.15	1.80	AI-XL 1,5- 8 BK	3201916	100
		1.5	16	-	19.50	7.00	10.00	0.30	0.15	1.80	AI-XL 1,5-10 BK	3201974	100
		2.5	14	-	17.50	7.90	8.00	0.30	0.15	2.30	AI-XL 2,5- 8 BU	3201929	100
		2.5	14	-	21.50	7.90	12.00	0.30	0.15	2.30	AI-XL 2,5-12 BU	3201987	100
		4	12	-	19.50	7.90	10.00	0.30	0.20	2.90	AI-XL 4 -10 GY	3201932	100
		6	10	-	23.00	8.70	12.00	0.30	0.20	3.60	AI-XL 6 -12 YE	3201945	100
		10	8	-	24.00	10.20	12.00	0.30	0.20	4.60	AI-XL 10 -12 RD	3201958	100
		16	6	-	25.50	12.50	12.00	0.40	0.20	6.00	AI-XL 16 -12 BU	3201961	100

Hand tools

Ferrules for special applications

- The TWIN ferrules provide a practical way of crimping two conductors in one ferrule
- These special ferrules allow chain bridges to be set up with ease
- Different versions of the individual TWIN ferrules can be selected for specific applications



Conductor cross sections from 2 x 0.5 to 2 x 16 mm²

® ERG

General data			Technical data								Technical data						
Material / coating											E-CU / tin-plated (galvanic)						
Plastic sleeve material											polypropylene						
Long/short-term temperature											105°C / 120°C						
Description			Cross section		Color		Dimensions [mm]								Ordering data		
			[mm ²]	AWG			b	d	h	i	j	k	l	Type	Order No.	Pcs. / Pkt.	
Ferrules, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified																	
			2 x 0.5	2 x 20	white		15.00	2.50	8.00	0.25	0.15	1.50	-	AI-TWIN 2X 0,5 - 8 WH	3200933	100	
			2 x 0.75	2 x 18	gray		15.00	2.80	8.00	0.25	0.15	1.80	-	AI-TWIN 2X 0,75- 8 GY	3200807	100	
			2 x 0.75	2 x 18	gray		17.00	2.80	10.00	0.25	0.15	1.80	-	AI-TWIN 2X 0,75-10 GY	3200975	100	
			2 x 1	2 x 18	red		15.00	3.40	8.00	0.30	0.15	2.05	-	AI-TWIN 2X 1 - 8 RD	3200810	100	
			2 x 1	2 x 18	red		17.00	3.40	10.00	0.30	0.15	2.05	-	AI-TWIN 2X 1 -10 RD	3200988	100	
			2 x 1	2 x 18	red		19.00	3.40	12.00	0.30	0.15	2.05	-	AI-TWIN 2X1-12 RD	3240679	100	
			2 x 1.5	2 x 16	black		16.00	3.60	8.00	0.30	0.15	2.30	-	AI-TWIN 2X 1,5 - 8 BK	3200823	100	
			2 x 1.5	2 x 16	black		18.00	3.60	10.00	0.30	0.15	2.30	-	AI-TWIN 2X 1,5 -10 BK	3201534	100	
			2 x 1.5	2 x 16	black		20.00	3.60	12.00	0.30	0.15	2.30	-	AI-TWIN 2X 1,5 -12 BK	3200991	100	
			2 x 2.5	2 x 14	blue		18.50	4.20	10.00	0.30	0.20	2.90	-	AI-TWIN 2X 2,5 -10 BU	3200836	100	
			2 x 2.5	2 x 14	blue		21.50	4.20	13.00	0.30	0.20	2.90	-	AI-TWIN 2X 2,5 -13 BU	3200878	100	
			2 x 4	2 x 12	gray		23.00	4.90	12.00	0.30	0.20	3.80	-	AI-TWIN 2X 4 -12 GY	3201000	100	
			2 x 6	2 x 10	yellow		25.00	5.90	14.00	0.40	0.20	4.90	-	AI-TWIN 2X 6 -14 YE	3201013	100	
			2 x 10	2 x 8	red		26.00	7.20	14.00	0.40	0.20	6.50	-	AI-TWIN 2X10 -14 RD	3201026	100	
			2 x 16	2 x 6	blue		31.00	8.80	16.00	0.50	0.20	8.50	-	AI-TWIN 2X16 -16 BU	3202847	50	
Ferrules, with plastic sleeve, color range according to NF C 63-023, CSA-certified																	
			2 x 0.75	18	blue		15.00	2.80	8.00	0.25	0.15	1.80	-	AI-TWIN 2X0,75-8 BU	3240668	100	
			2 x 2.5	14	gray		18.50	4.20	10.00	0.30	0.20	2.90	-	AI-TWIN 2X2,5-10 GY	3240669	100	

Ferrules with plastic sleeve, taped, supplied on large coils

- Ferrules in tape format for automatic processing
- The ferrules are supplied on large coils, each containing a quantity of up to 3000



Conductor cross section of 0.5 - 2.5 mm²



General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

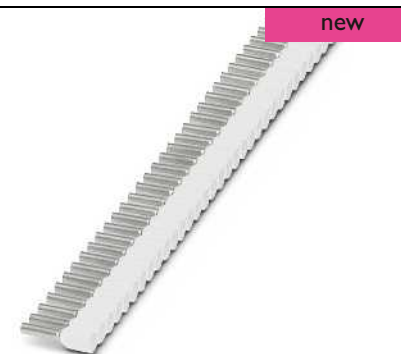
Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	d	h	i	j	k
Taped ferrules , with plastic sleeve, large coils for automatic processing, color range acc. to DIN 46228-4: 1990-09, CSA certified										
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80
	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30

Ordering data

Type	Order No.	Pcs. / Pkt.
AI 0,5-8 WH-B 3000	3240663	3000
AI 0,75-8 GY-B 3000	3240664	3000
AI 1-8 RD-B 3000	3240665	3000
AI 1,5-8 BK-B 2500	3240666	2500
AI 2,5-8 BU-B 1500	3240667	1500

Ferrules with plastic collar in strip form

- Suitable for processing with the CRIMPFOX 4 IN 1
- The ferrules with plastic sleeve are made from soft tin-plated electrolytic copper
- In terms of dimensions, they conform to DIN 46228-4: 1990-09



Conductor cross section of 0.5 - 2.5 mm²

General data

Material / coating
Plastic sleeve material
Long/short-term temperature

Technical data

E-CU / tin-plated (galvanic)
polypropylene
105°C / 120°C

Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	d	h	i	j	k
Taped ferrules , 0.5 mm ² , sleeve length: 8 mm, with plastic collar, according to DIN 46228-4, white, for processing with the CRIMPFOX 4 IN 1, 10 strips each with 50 sleeves per strip										
	0.5	20	white	-	14.00	2.50	8.00	0.25	0.15	1.10
	0.75	18	gray	-	14.00	2.80	8.00	0.25	0.15	1.30
	1	18	red	-	14.00	3.00	8.00	0.30	0.15	1.50
	1.5	16	black	-	14.00	3.40	8.00	0.30	0.15	1.80
10 strips each with 40 sleeves per strip	2.5	14	blue	-	14.00	4.20	8.00	0.30	0.15	2.30

Ordering data

Type	Order No.	Pcs. / Pkt.
AI 0,5-8 WH S1	1200104	500
AI 0,75-8 GY S1	1200105	500
AI 1,0-8 RD S1	1200106	500
AI 1,5-8 BK S1	1200107	500
AI 2,5-8 BU S1	1200108	400

Hand tools

Assortment boxes containing ferrules



- The practical assortment boxes are designed to keep your workshop tidy
- Color coding and the transparent cover facilitate fast access to the required ferrules
- Using the integrated euro-clip, they can be hung up on perforated board walls, for example, to save space



		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Sorti-box , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI 0,5-8 WH, AI 2,5-8 BU, 100 pcs. each of AI 0,75-8 GY, AI 1-8 RD, AI 1,5-8 BK	red	AI SORTI BOX RD	3202960	1
Sorti-box , equipped with ferrules in accordance with DIN 46228-4, CSA-certified 50 pcs. of AI 4-10 GY, 20 pcs. each of AI 6-12 YE, AI 10-12 RD, 10 pcs. of AI 16-12 BU	anthracite	AI SORTI BOX ANT	3202973	1
Sorti-box , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 500 pcs. each of AI-TWIN 2x0,5-8 WH, AI-TWIN 2x0,75-8 GY, AI-TWIN 2x1-8 RD, AI-TWIN 2x1,5-8 BK 25 pcs. of AI-TWIN 2x2,5-10 BU	blue	AI-TWIN SORTI BOX BU	3202986	1
Sorti-box , equipped with TWIN ferrules in accordance with DIN 46228-4, CSA-certified 20 pcs. of AI-TWIN 2x4-12 GY, 10 pcs. each of AI-TWIN 2x6-14 YE, AI-TWIN 2x10-14 RD	gray	AI-TWIN SORTI BOX GY	3202999	1
Assortment box , empty, with five compartments	light gray	AI SORTI BOX-E LGY	3203008	10

Ferrule set with tool

- Stripping and crimping set with a selection of CSA/CSA-certified ferrules



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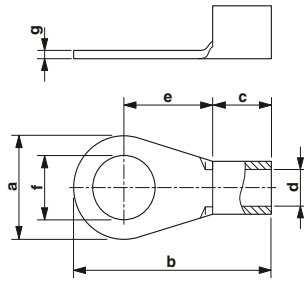
Description
<p>Range box, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 500 pieces each of Al 0,25-6 YE, Al 0,34-6 TQ, Al 0,5-8 WH, Al 0,75-8 GY, Al 1-8 RD, Al 1,5-8 BK, 300 pieces of Al 2,5-8 BU, 200 pieces of Al 4-10 GY, 100 pieces of Al 6-12 YE as well as stripping tool for wires and conductors of up to 6 mm² Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 0.5 - 6 mm², front insertion, trapezoidal crimp</p>
<p>Range box, made of metal, equipped with ferrules in accordance with DIN 46228-4: 1990-09, CSA-certified 300 pieces of Al 10-12 RD, 200 pieces of Al 16-12 BU, 100 pieces of Al 25-16 YE as well as stripping tool, for stripping wires of 4.5 - 40 mm, Crimp pliers for ferrules in accordance with DIN 46228, Part 1+4, 10 - 25 mm², lateral insertion, WM crimp</p>
<p>Assortment box, metal, no components mounted</p>

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPSET 6	1202072	1
CRIMPSET 25	1202580	1
CRIMPSET 6/25 LEER	1204041	1

Hand tools

Ring cable lugs, non-insulated

- The ring cable lugs without plastic sleeve are made from high-quality tin-plated electrolytic copper for maximum protection against corrosion
- The hard-soldered press zone enables maximum conductor extraction values to be achieved
- The CRIMPFOX-RC... tools from our CRIMPFOX range of crimping pliers are available for optimum crimping



Conductor cross sections from 0.5 to 240 mm²

ERC

General data			Technical data								Technical data			
Material / coating											Copper / Tin-plated			
Temperature range			[°C]								... 110			
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm ²]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
Ring cable lug, non-insulated, as per DIN 46234														
2.5 mm ²	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	2.80	0.80	C-RC 1/M2,5 DIN	3240069	100	
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.20	0.80	C-RC 1/M3 DIN	3240070	100	
	0.5 - 1	20 - 18	silver	6.00	14.00	5.00	1.60	6.00	3.70	0.80	C-RC 1/M3,5 DIN	3240071	100	
	0.5 - 1	20 - 18	silver	8.00	16.00	5.00	1.60	7.00	4.30	0.80	C-RC 1/M4 DIN	3240072	100	
	0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	5.30	0.80	C-RC 1/M5 DIN	3240073	100	
	0.5 - 1	20 - 18	silver	10.00	18.00	5.00	1.60	8.00	6.50	0.80	C-RC 1/M6 DIN	3240074	100	
	0.5 - 1	20 - 18	silver	11.60	22.00	5.00	1.60	12.00	8.40	0.80	C-RC 1/M8 DIN	3240075	100	
	1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.20	0.80	C-RC 2,5/M3 DIN	3240076	100	
	1 - 2.5	18 - 14	silver	6.00	14.00	5.00	2.30	6.00	3.70	0.80	C-RC 2,5/M3,5 DIN	3240077	100	
	1 - 2.5	18 - 14	silver	8.00	16.00	5.00	2.30	7.00	4.30	0.80	C-RC 2,5/M4 DIN	3240078	100	
	1 - 2.5	18 - 14	silver	10.00	19.00	5.00	2.30	9.00	5.30	0.80	C-RC 2,5/M5 DIN	3240079	100	
	1 - 2.5	18 - 14	silver	11.00	21.50	5.00	2.30	11.00	6.50	0.80	C-RC 2,5/M6 DIN	3240080	100	
	1 - 2.5	18 - 14	silver	14.00	24.00	5.00	2.30	12.00	8.40	0.80	C-RC 2,5/M8 DIN	3240081	100	
	1 - 2.5	18 - 14	silver	14.00	25.40	5.00	2.30	12.00	10.50	0.80	C-RC 2,5/M10 DIN	3240082	100	
	2.6 - 6	12 - 10	silver	8.00	17.50	6.00	3.60	8.00	4.30	1.00	C-RC 6/M4 DIN	3240083	50	
	2.6 - 6	12 - 10	silver	10.00	20.00	6.00	3.60	9.00	5.30	1.00	C-RC 6/M5 DIN	3240084	50	
2.6 - 6	12 - 10	silver	11.00	22.00	6.00	3.60	10.00	6.50	1.00	C-RC 6/M6 DIN	3240085	50		
2.6 - 6	12 - 10	silver	14.00	26.00	6.00	3.60	13.00	8.40	1.00	C-RC 6/M8 DIN	3240086	50		
2.6 - 6	12 - 10	silver	18.00	30.00	6.00	3.60	15.00	10.50	1.00	C-RC 6/M10 DIN	3240087	50		
2.6 - 6	12 - 10	silver	18.00	35.50	6.00	3.60	15.00	13.00	1.00	C-RC 6/M12 DIN	3240088	50		
- 10	- 8	silver	10.00	21.00	8.00	4.50	8.00	5.30	1.10	C-RC 10/M5 DIN	3240089	100		
- 10	- 8	silver	11.00	23.00	8.00	4.50	9.00	6.50	1.10	C-RC 10/M6 DIN	3240090	100		
- 10	- 8	silver	14.00	27.00	8.00	4.50	12.00	8.40	1.10	C-RC 10/M8 DIN	3240091	100		
- 10	- 8	silver	18.00	30.00	8.00	4.50	13.00	10.50	1.10	C-RC 10/M10 DIN	3240092	100		
- 10	- 8	silver	22.00	34.00	8.00	4.50	15.00	13.00	1.10	C-RC 10/M12 DIN	3240093	100		
- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	5.30	1.10	C-RC 16/M5 DIN	3240094	100		
- 16	- 6	silver	11.00	26.00	10.00	5.80	10.00	6.50	1.20	C-RC 16/M6 DIN	3240095	100		
- 16	- 6	silver	14.00	29.00	10.00	5.80	12.00	8.40	1.20	C-RC 16/M8 DIN	3240096	100		
- 16	- 6	silver	18.00	33.00	10.00	5.80	14.00	10.50	1.20	C-RC 16/M10 DIN	3240097	100		
- 16	- 6	silver	22.00	37.00	10.00	5.80	16.00	13.00	1.20	C-RC 16/M12 DIN	3240098	100		
- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	5.30	1.50	C-RC 25/M5 DIN	3240099	100		
- 25	- 4	silver	12.00	31.00	11.00	7.50	14.00	6.50	1.50	C-RC 25/M6 DIN	3240100	100		
- 25	- 4	silver	16.00	33.00	11.00	7.50	14.00	8.40	1.50	C-RC 25/M8 DIN	3240101	100		
- 25	- 4	silver	18.00	35.00	11.00	7.50	15.00	10.50	1.50	C-RC 25/M10 DIN	3240102	100		
- 25	- 4	silver	31.00	42.00	11.00	7.50	20.00	13.00	1.50	C-RC 25/M12 DIN	3240103	100		
- 25	- 4	silver	35.00	49.00	11.00	7.50	25.00	17.00	1.50	C-RC 25/M16 DIN	3240104	100		
- 35	- 2	silver	15.00	34.00	12.00	9.00	14.00	6.50	1.60	C-RC 35/M6 DIN	3240105	100		
- 35	- 2	silver	16.00	34.00	12.00	9.00	14.00	8.40	1.60	C-RC 35/M8 DIN	3240106	100		
- 35	- 2	silver	18.00	36.00	12.00	9.00	15.00	10.50	1.60	C-RC 35/M10 DIN	3240107	100		
- 35	- 2	silver	22.00	42.00	12.00	9.00	19.00	13.00	1.60	C-RC 35/M12 DIN	3240108	100		
- 35	- 2	silver	28.00	50.00	12.00	9.00	24.00	17.00	1.60	C-RC 35/M16 DIN	3240109	100		
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	6.50	1.80	C-RC 50/M6 DIN	3240110	100		
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	8.40	1.80	C-RC 50/M8 DIN	3240111	100		
- 50	- 1/0	silver	18.00	43.00	16.00	11.00	18.00	10.50	1.80	C-RC 50/M10 DIN	3240112	100		
- 50	- 1/0	silver	22.00	47.00	16.00	11.00	20.00	13.00	1.80	C-RC 50/M12 DIN	3240113	100		
- 50	- 1/0	silver	28.00	54.00	16.00	11.00	24.00	17.00	1.80	C-RC 50/M16 DIN	3240114	100		
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	6.50	2.00	C-RC 70/M6 DIN	3240115	100		
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	8.40	2.00	C-RC 70/M8 DIN	3240116	100		
- 70	- 2/0	silver	22.00	49.00	18.00	13.00	20.00	10.50	2.00	C-RC 70/M10 DIN	3240117	100		
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	8.40	2.50	C-RC 95/M8 DIN	3240120	50		
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	10.50	2.50	C-RC 95/M10 DIN	3240121	50		
- 95	- 3/0	silver	24.00	54.00	20.00	15.00	22.00	13.00	2.50	C-RC 95/M12 DIN	3240122	50		

Ring cable lugs, non-insulated

Conductor cross sections from 0.5 to 240 mm²

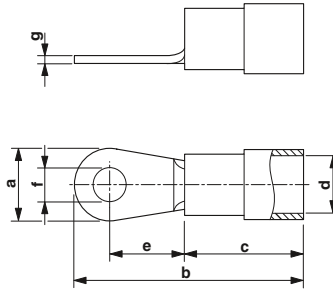
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General data				Technical data							Technical data			
Material / coating											Copper / Tin-plated			
Temperature range				[°C]							... 110			
Description				Dimensions [mm]							Ordering data			
		Cross section	Color									Type	Order No.	Pcs. / Pkt.
		[mm ²]		a	b	c	d	e	f	g				
Ring cable lug, non-insulated, as per DIN 46234														
	120	250	silver	24.00	56.00	22.00	16.50	22.00	8.40	3.00	C-RC 120/M8 DIN	3240124	25	
	120	250	silver	24.00	56.00	22.00	16.50	22.00	10.50	3.00	C-RC 120/M10 DIN	3240125	25	
	120	250	silver	24.00	56.00	22.00	16.50	22.00	13.00	3.00	C-RC 120/M12 DIN	3240126	25	
	150	300	silver	30.00	65.00	24.00	19.00	26.00	10.50	3.20	C-RC 150/M10 DIN	3240128	25	
	150	300	silver	30.00	65.00	24.00	19.00	26.00	13.00	3.20	C-RC 150/M12 DIN	3240129	25	
	150	300	silver	30.00	65.00	24.00	19.00	26.00	17.00	3.20	C-RC 150/M16 DIN	3240130	25	
	185	350	silver	36.00	74.00	28.00	21.00	22.00	10.50	3.50	C-RC 185/M10 DIN	3240131	20	
	185	350	silver	36.00	74.00	28.00	21.00	22.00	13.00	3.50	C-RC 185/M12 DIN	3240132	20	
	185	350	silver	36.00	74.00	28.00	21.00	22.00	17.00	3.50	C-RC 185/M16 DIN	3240133	20	
	240	500	silver	38.00	75.00	32.00	23.50	24.00	10.50	4.00	C-RC 240/M10 DIN	3240134	10	
	240	500	silver	38.00	75.00	32.00	23.50	24.00	13.00	4.00	C-RC 240/M12 DIN	3240135	10	
	240	500	silver	38.00	75.00	32.00	23.50	24.00	17.00	4.00	C-RC 240/M16 DIN	3240136	10	

Hand tools

Ring cable lugs, insulated

- The insulated ring cable lugs with plastic sleeve are hard-soldered and feature the 'EASY ENTRY' system
- The sleeves are conically tapered to facilitate easy and correct insertion of the conductor



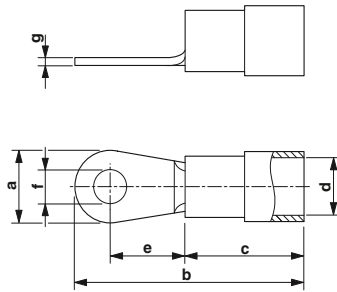
Conductor cross sections from 0.5 to 10 mm²

ERC

General data				Technical data								Technical data		
Material / coating												Copper / Tin-plated		
Temperature range				[°C]								-20 ... 105		
Description	Cross section		Color	Dimensions [mm]							Ordering data			
	[mm ²]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
Ring cable lug, insulated, according to UL														
	0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.20	0.75	C-RCI 1,5/M3	3240016	100	
	0.5 - 1.5	20 - 16	red	5.50	17.50	10.50	4.10	4.30	3.70	0.75	C-RCI 1,5/M3,5	3240017	100	
	0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	4.30	0.75	C-RCI 1,5/M4	3240018	100	
	0.5 - 1.5	20 - 16	red	8.00	21.70	10.50	4.10	7.30	5.30	0.75	C-RCI 1,5/M5	3240019	100	
	0.5 - 1.5	20 - 16	red	11.60	27.60	10.50	4.10	11.20	6.50	0.75	C-RCI 1,5/M6	3240020	100	
2.5 mm ²	1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	7.80	3.20	0.80	C-RCI 2,5/M3	3240021	100	
	1.5 - 2.5	16 - 14	blue	6.60	20.60	11.00	4.50	6.30	3.70	0.80	C-RCI 2,5/M3,5	3240022	100	
	1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	C-RCI 2,5/M4	3240023	100	
	1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	C-RCI 2,5/M5	3240024	100	
	1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	6.50	0.80	C-RCI 2,5/M6	3240025	50	
	1.5 - 2.5	16 - 14	blue	12.00	28.10	11.00	4.50	11.00	8.50	0.80	C-RCI 2,5/M8	3240026	50	
	4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	4.30	1.00	C-RCI 6/M4	3240027	50	
	4 - 6	12 - 10	yellow	9.50	26.70	14.00	6.60	8.00	5.30	1.00	C-RCI 6/M5	3240028	50	
	4 - 6	12 - 10	yellow	12.00	32.70	14.00	6.60	12.70	6.50	1.00	C-RCI 6/M6	3240029	25	
	4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	8.50	1.00	C-RCI 6/M8	3240030	25	
	4 - 6	12 - 10	yellow	15.00	34.90	14.00	6.60	13.40	10.50	1.00	C-RCI 6/M10	3240031	25	
	- 10	- 8	red	10.00	31.30	16.00	7.50	10.90	5.30	1.10	C-RCI 10/M5	3240219	50	
	- 10	- 8	red	11.00	31.30	16.00	7.50	19.30	6.50	1.10	C-RCI 10/M6	3240220	50	
	- 10	- 8	red	14.00	37.30	16.00	7.50	13.80	8.40	1.10	C-RCI 10/M8	3240221	50	
	- 10	- 8	red	18.00	37.30	16.00	7.50	13.80	10.50	1.10	C-RCI 10/M10	3240222	50	

Ring cable lugs, insulated with additional crimp zone for conductor insulation

- The insulated ring cable lugs with plastic sleeve are hard-soldered and feature the 'EASY ENTRY' system
- The sleeves are conically tapered to facilitate easy and correct insertion of the conductor



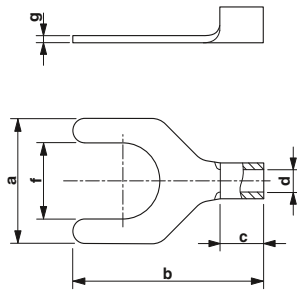
Conductor cross sections from 0.5 to 10 mm²

General data			Technical data							Technical data						
Material / coating										Copper / Tin-plated						
Temperature range		[°C]								-20 ... 105						
Description			Cross section		Color		Dimensions [mm]							Ordering data		
	[mm ²]	AWG					a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.
Ring cable lug, insulated, with additional crimp zone for conductor insulation																
	0.5 - 1.5	20 - 16	red	5.50	17.70	11.00	4.10	4.00	3.20	0.75	C-RCEI 1,5/M3	3241201	100			
	0.5 - 1.5	20 - 16	red	6.60	20.60	11.00	4.10	6.30	3.70	0.75	C-RCEI 1,5/M3,5	3241202	100			
	0.5 - 1.5	20 - 16	red	8.00	22.00	11.00	4.10	7.00	4.30	0.75	C-RCEI 1,5/M4	3241203	100			
	0.5 - 1.5	20 - 16	red	8.00	22.00	11.00	4.10	7.00	5.30	0.75	C-RCEI 1,5/M5	3241204	100			
	0.5 - 1.5	20 - 16	red	11.60	27.80	11.00	4.10	11.10	6.50	0.75	C-RCEI 1,5/M6	3241205	100			
	1.5 - 2.5	16 - 14	blue	6.60	20.50	11.00	4.50	6.30	3.70	0.80	C-RCEI 2,5/M3,5	3241206	100			
	1.5 - 2.5	16 - 14	blue	8.50	23.00	11.00	4.50	7.80	4.30	0.80	C-RCEI 2,5/M4	3241207	100			
	1.5 - 2.5	16 - 14	blue	9.50	23.00	11.00	4.50	7.30	5.30	0.80	C-RCEI 2,5/M5	3241208	100			
	1.5 - 2.5	16 - 14	blue	12.00	28.00	11.00	4.50	11.00	6.50	0.80	C-RCEI 2,5/M6	3241209	100			
	1.5 - 2.5	16 - 14	blue	12.00	28.00	11.00	4.50	11.00	8.40	0.80	C-RCEI 2,5/M8	3241210	100			
	4 - 6	12 - 10	yellow	9.50	26.00	13.00	6.50	8.30	5.30	1.00	C-RCEI 6/M5	3241211	100			
	4 - 6	12 - 10	yellow	12.00	29.50	13.00	6.50	10.50	6.50	1.00	C-RCEI 6/M6	3241212	100			
	4 - 6	12 - 10	yellow	15.00	34.20	13.00	6.50	13.70	8.40	1.00	C-RCEI 6/M8	3241213	100			
	4 - 6	12 - 10	yellow	15.00	34.20	13.00	6.50	13.70	10.50	1.00	C-RCEI 6/M10	3241214	100			

Hand tools

Fork-type cable lugs, insulated and non-insulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX-RC ... and CRIMPFOX-RCI ... pliers they can be used to achieve maximum conductor pull-out forces
- The insulated versions are halogen-free and feature "EASY ENTRY" technology



Conductor cross sections from 0.5 to 6 mm²

ERC

General data				Technical data								Technical data		
Material / coating												Copper / Tin-plated		
Temperature range				[°C]								... 110		
Description	Cross section		Color	Dimensions [mm]								Ordering data		
	[mm ²]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
Fork-type cable lug, non-isolated DIN 46234														
	0.5 - 1.5	20 - 16	silver	5.70	16.00	4.50	1.90	-	3.20	0.75	C-FC 1,5/M3	3240137	100	
	0.5 - 1.5	20 - 16	silver	6.20	16.00	4.50	1.90	-	3.70	0.75	C-FC 1,5/M3,5	3240138	100	
	0.5 - 1.5	20 - 16	silver	7.20	16.00	4.50	1.90	-	4.30	0.75	C-FC 1,5/M4	3240139	100	
	0.5 - 1.5	20 - 16	silver	8.00	16.00	4.50	1.90	-	5.30	0.75	C-FC 1,5/M5	3240140	100	
	0.5 - 1.5	20 - 16	silver	10.70	17.00	4.50	1.90	-	6.40	0.80	C-FC 1,5/M6	3240141	100	
2.5 mm ²	1.5 - 2.5	16 - 14	silver	5.70	16.00	4.80	2.50	-	3.20	0.80	C-FC 2,5/M3	3240142	100	
	1.5 - 2.5	16 - 14	silver	6.20	16.00	4.80	2.50	-	3.70	0.80	C-FC 2,5/M3,5	3240143	100	
	1.5 - 2.5	16 - 14	silver	7.20	16.00	4.80	2.50	-	4.30	0.80	C-FC 2,5/M4	3240144	100	
	1.5 - 2.5	16 - 14	silver	8.00	16.00	4.80	2.50	-	5.30	0.80	C-FC 2,5/M5	3240145	100	
	1.5 - 2.5	16 - 14	silver	10.70	17.00	4.80	2.50	-	6.40	0.80	C-FC 2,5/M6	3240146	100	
	1.5 - 2.5	16 - 14	silver	13.50	22.10	4.80	2.50	-	8.40	0.80	C-FC 2,5/M8	3240147	100	
	2.6 - 6	12 - 10	silver	8.20	19.50	6.50	3.60	-	4.30	1.00	C-FC 6/M4	3240148	50	
	2.6 - 6	12 - 10	silver	9.00	19.50	6.50	3.60	-	5.30	1.00	C-FC 6/M5	3240149	50	
	2.6 - 6	12 - 10	silver	12.00	23.10	6.50	3.60	-	6.40	1.00	C-FC 6/M6	3240150	50	
	2.6 - 6	12 - 10	silver	13.50	25.00	6.50	3.60	-	8.40	1.00	C-FC 6/M8	3240151	50	

Fork-type cable lugs, insulated and non-insulated

- The fork-type cable lugs without plastic sleeve feature a hard-soldered neck. In conjunction with the CRIMPFOX–RC ... and CRIMPFOX–RCI ... pliers they can be used to achieve maximum conductor pull-out forces
- The insulated versions are halogen-free and feature "EASY ENTRY" technology

0.5 to 6 mm² conductor cross sections

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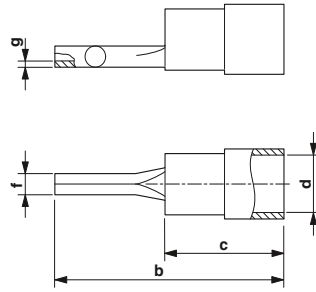
General data				Technical data								Technical data						
Material / coating												Copper / Tin-plated						
Temperature range				[°C]								-20 ... 105						
Description				Cross section		Color		Dimensions [mm]								Ordering data		
				[mm ²]	AWG			a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.	
Fork-type cable lug, insulated, according to UL																		
0.5 - 1.5				20 - 16	red	5.70	22.00	10.50	4.10	-	3.20	0.75	C-FCI 1,5/M3	3240032	100			
0.5 - 1.5				20 - 16	red	5.70	22.00	10.50	4.10	-	3.70	0.75	C-FCI 1,5/M3,5	3240033	100			
0.5 - 1.5				20 - 16	red	7.20	22.00	10.50	4.10	-	4.30	0.75	C-FCI 1,5/M4	3240034	100			
0.5 - 1.5				20 - 16	red	8.00	22.00	10.50	4.10	-	5.30	0.75	C-FCI 1,5/M5	3240035	100			
0.5 - 1.5				20 - 16	red	10.70	22.00	10.50	4.10	-	6.50	0.75	C-FCI 1,5/M6	3240036	100			
2.5 mm ²	1.5 - 2.5				16 - 14	blue	5.70	22.50	11.00	4.50	-	3.20	0.80	C-FCI 2,5/M3	3240037	100		
	1.5 - 2.5				16 - 14	blue	5.70	22.50	11.00	4.50	-	3.70	0.80	C-FCI 2,5/M3,5	3240038	100		
	1.5 - 2.5				16 - 14	blue	7.20	22.50	11.00	4.50	-	4.30	0.80	C-FCI 2,5/M4	3240039	100		
	1.5 - 2.5				16 - 14	blue	8.00	22.50	11.00	4.50	-	5.30	0.80	C-FCI 2,5/M5	3240040	50		
	1.5 - 2.5				16 - 14	blue	10.70	22.50	11.00	4.50	-	6.50	0.80	C-FCI 2,5/M6	3240041	50		
	4 - 6				12 - 10	yellow	8.20	26.70	14.00	6.60	-	4.30	1.00	C-FCI 6/M4	3240042	50		
	4 - 6				12 - 10	yellow	9.00	26.70	14.00	6.60	-	5.30	1.00	C-FCI 6/M5	3240043	50		
	4 - 6				12 - 10	yellow	12.00	30.30	14.00	6.60	-	6.50	1.00	C-FCI 6/M6	3240044	25		
4 - 6				12 - 10	yellow	13.50	32.80	14.00	6.60	-	8.50	1.00	C-FCI 6/M8	3240045	25			

Hand tools

Pin cable lugs, insulated

The key features of the insulated pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating
Temperature range [°C]

Description	Cross section		Color
	[mm ²]	AWG	
Pin cable lug, isolated as per UL	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	22.50	10.50	4.10	-	2.00	0.75	
-	23.00	11.00	4.50	-	2.00	0.80	
-	27.50	14.00	6.60	-	2.70	0.80	

ERC

Technical data

Copper / Tin-plated
-20 ... 105

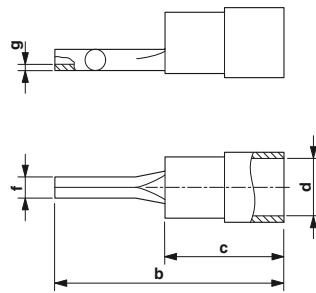
Ordering data

Type	Order No.	Pcs. / Pkt.
C-PCI 1,5/2	3240064	100
C-PCI 2,5/2	3240066	100
C-PCI 6/2,7	3240068	50

Pin cable lugs, insulated with additional crimp zone for conductor insulation

The key features of the insulated pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data

Material / coating
Temperature range [°C]

Description	Cross section		Color
	[mm ²]	AWG	
Pin cable lug, insulated, with additional crimp zone for conductor insulation	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

Dimensions [mm]							
a	b	c	d	e	f	g	
-	23.50	11.00	4.10	-	1.90	0.75	
-	23.50	11.00	4.50	-	1.90	0.80	
-	26.70	13.00	6.50	-	2.80	0.80	

Technical data

Copper / Tin-plated
-20 ... 105

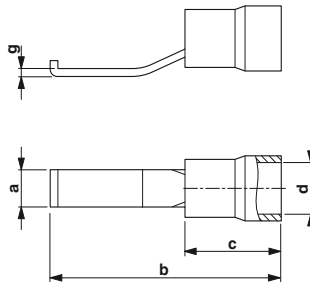
Ordering data

Type	Order No.	Pcs. / Pkt.
C-PCEI 1,5/2	3241215	100
C-PCEI 2,5/2	3241216	100
C-PCEI 6/2	3241217	100

Flat pin cable lugs with hooks, insulated

The key features of the flat pin cable lugs with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data	
Material / coating	
Temperature range	[°C]

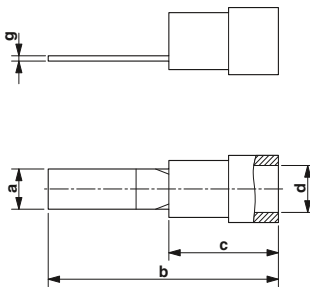
Technical data	
Copper / Tin-plated	
-20 ... 105	

Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	c	d	e	f	g
Flat pin cable lug, insulated										
	0.5 - 1.5	20 - 16	red	2.80	28.00	10.50	4.00	-	-	0.80
	0.5 - 1.5	20 - 16	red	4.60	28.00	10.50	4.00	-	-	0.80
	1.5 - 2.5	16 - 14	blue	2.80	28.50	11.00	4.50	-	-	0.80
	1.5 - 2.5	16 - 14	blue	4.60	28.50	11.00	4.50	-	-	0.80
	4 - 6	12 - 10	yellow	2.80	32.00	14.00	6.50	-	-	0.80
	4 - 6	12 - 10	yellow	4.60	32.00	14.00	6.50	-	-	1.00
Flat pin cable lug, approved for horizontal crushing. Also ideal for spring-assisted USST... screw terminal blocks										
	4 - 6	12 - 10	yellow	2.80	30.50	13.00	6.50	-	-	0.80
	4 - 6	12 - 10	yellow	4.60	30.50	13.00	6.50	-	-	1.00

Ordering data		
Type	Order No.	Pcs. / Pkt.
C-BCI 1,5/2,8	3240015	100
C-BCI 1,5/4,6	3240568	100
C-BCI 2,5/2,8	3240046	100
C-BCI 2,5/4,6	3240569	100
C-BCI 6/2,8	3240047	50
C-BCI 6/4,6	3240570	50
C-BCI 6/2,8 SO	3240057	50
C-BCI 6/4,6 SO	3240067	50

Flat pin cable lugs, straight, insulated

- Easy and reliable conductor entry thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data	
Material / coating	
Temperature range	[°C]

Technical data	
CU / electrogalvanized	
-20 ... 105	

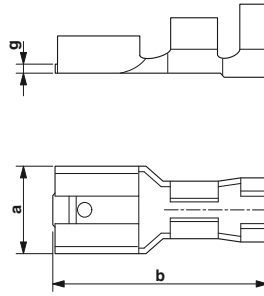
Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	c	d	e	f	g
Flat pin cable lug, insulated, pin dimensions:										
19.5 x 2.8 mm	0.5 - 1.5	20 - 16	red	2.80	19.50	10.50	4.10	-	-	0.75
20 x 2.8 mm	1.5 - 2.5	16 - 14	blue	2.80	20.00	11.00	4.50	-	-	0.80
32 x 4.5 mm	4 - 6	12 - 10	yellow	2.80	24.00	14.00	6.60	-	-	1.00
24 x 2.8 mm	4 - 6	12 - 10	yellow	4.50	32.00	14.00	6.60	-	-	1.00

Ordering data		
Type	Order No.	Pcs. / Pkt.
C-BCSI 1,5/9X2,8	3240531	100
C-BCSI 2,5/9X2,8	3240532	100
C-BCSI 6/10X2,8	3240546	100
C-BCSI 6/18X4,5	3240533	50

Hand tools

Slip-on sleeves and flat connectors, non-insulated

- The non-insulated slip-on sleeves and flat connectors are made from electrolytically tin-plated brass
- They complete the product range in terms of connectors



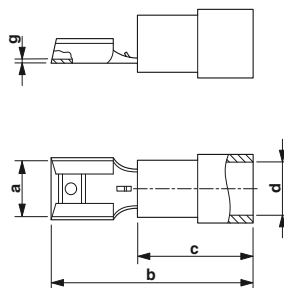
Conductor cross sections from 0.5 to 6 mm²

General data				Technical data							Technical data				
Material / coating											Brass / Tin-plated				
Temperature range				[°C]							... 110				
Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.		
	[mm ²]	AWG		a	b	c	d	e	f	g					
Slip-on sleeve, non-isolated as per DIN 46247															
	0.5 - 1	20 - 18	silver	2.80	14.50	-	-	-	-	-	0.30	C-SCF 1/2,8X0,5	3240152	100	
	0.5 - 1	20 - 18	silver	2.80	12.50	-	-	-	-	-	0.30	C-SCF 1/2,8X0,8	3240153	100	
	0.5 - 1.5	20 - 16	silver	4.80	15.60	-	-	-	-	-	0.40	C-SCF 1,5/4,8X0,5	3240154	100	
	0.5 - 1.5	20 - 16	silver	4.80	15.60	-	-	-	-	-	0.40	C-SCF 1,5/4,8X0,8	3240155	100	
	0.5 - 1.5	20 - 16	silver	6.30	19.20	-	-	-	-	-	0.40	C-SCF 1,5/6,3X0,8	3240156	100	
	1.5 - 2.5	16 - 14	silver	4.80	15.60	-	-	-	-	-	0.40	C-SCF 2,5/4,8X0,5	3240157	100	
	1.5 - 2.5	16 - 14	silver	4.80	15.60	-	-	-	-	-	0.40	C-SCF 2,5/4,8X0,8	3240158	100	
	1.5 - 2.5	16 - 14	silver	6.30	19.20	-	-	-	-	-	0.40	C-SCF 2,5/6,3X0,8	3240159	100	
	4 - 6	12 - 10	silver	6.30	19.20	-	-	-	-	-	0.40	C-SCF 6/6,3X0,8	3240160	100	
Flat connector, non-isolated as per DIN 46248															
	0.5 - 1.5	20 - 16	silver	6.30	20.00	-	-	-	-	-	0.80	C-SCM 1,5/6,3X0,8	3240161	100	
	1.5 - 2.5	16 - 14	silver	6.30	20.00	-	-	-	-	-	0.80	C-SCM 2,5/6,3X0,8	3240162	100	
Insulating sleeve, as shock protection for slip-on sleeves, to be threaded onto the cable in advance															
For 2.8 mm slip-on sleeves			transparent								PT/FS 2,8			1406700	500
For 4.8 mm slip-on sleeves			transparent								PT/FS 4,8			1670497	25
For 6.3 mm slip-on sleeves			transparent								PT/FS 6,3			0604707	500

Slip-on sleeves and flat connectors, insulated

The key features of the insulated flat connectors and slip-on sleeves with plastic collars are as follows:

- "EASY ENTRY" for easy and reliable conductor entry
- Hard-soldered crimping zone for maximum extraction forces
- Electrolytic tin plating
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

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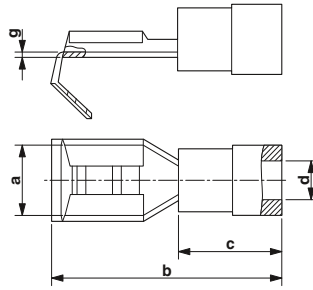
General data				Technical data							
Material / coating											
Temperature range				[°C]							
Description	Cross section		Color	Dimensions [mm]							
	[mm ²]	AWG		a	b	c	d	e	f	g	
Slip-on sleeve, insulated, according to UL											
	0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	
	0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	
	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	
	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	
	0.5 - 1.5	20 - 16	red	6.30	21.50	10.50	4.10	-	-	0.40	
	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	
	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	
	1.5 - 2.5	16 - 14	blue	6.30	22.00	11.00	5.00	-	-	0.40	
	4 - 6	12 - 10	yellow	6.30	25.00	14.00	6.60	-	-	0.40	
Slip-on blade connector, insulated, according to UL											
	0.5 - 1.5	20 - 16	red	6.30	22.00	10.50	4.10	-	-	0.80	
	1.5 - 2.5	16 - 14	blue	6.30	22.50	11.00	4.50	-	-	0.80	
	4 - 6	12 - 10	yellow	6.30	24.50	14.00	6.60	-	-	0.80	

Technical data		
Brass / Tin-plated		
-20 ... 105		
Ordering data		
Type	Order No.	Pcs. / Pkt.
C-SCFI 1,5/2,8X0,5	3240048	100
C-SCFI 1,5/2,8X0,8	3240049	100
C-SCFI 1,5/4,8X0,5	3240050	100
C-SCFI 1,5/4,8X0,8	3240051	100
C-SCFI 1,5/6,3X0,8	3240052	100
C-SCFI 2,5/4,8X0,5	3240053	50
C-SCFI 2,5/4,8X0,8	3240054	50
C-SCFI 2,5/6,3X0,8	3240055	50
C-SCFI 6/6,3X0,8	3240056	50
C-SCMI 1,5/6,3X0,8	3240058	100
C-SCMI 2,5/6,3X0,8	3240059	50
C-SCMI 6/6,3X0,8	3240060	50

Hand tools

Slip-on distributor, insulated

- Easy and reliable conductor entry thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 2.5 mm²

General data	
Material / coating	
Temperature range	[°C]

Description	Cross section		Color
	[mm ²]	AWG	
Slip-on distributor, insulated, for 6.3 x 0.8 mm plugs and sleeves			
	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue

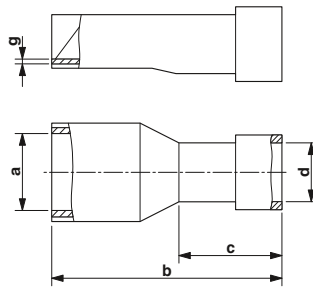
Dimensions [mm]							
a	b	c	d	e	f	g	g
6.30	22.50	10.50	41.00	-	-	0.40	0.40
6.30	23.00	11.00	11.00	-	-	0.40	0.40

ERC

Technical data		
Brass / electrogalvanized		
-20 ... 105		
Ordering data		
Type	Order No.	Pcs. / Pkt.
C-SCFMI 1,5/6,3X0,8	3240529	50
C-SCFMI 2,5/6,3X0,8	3240530	50

Slip-on sleeves, fully insulated

- Easy and reliable conductor entry, thanks to "EASY ENTRY"
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data	
Material / coating	
Temperature range	[°C]

Description	Cross section		Color
	[mm ²]	AWG	
Slip-on sleeve, fully insulated, for connectors:			
2.8 x 0.5 mm	0.5 - 1.5	20 - 16	red
2.8 x 0.8 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.5 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.8 mm	0.5 - 1.5	20 - 16	red
6.3 x 0.8 mm	0.5 - 1.5	20 - 16	red
4.8 x 0.5 mm	1.5 - 2.5	16 - 14	blue
4.8 x 0.8 mm	1.5 - 2.5	16 - 14	blue
6.3 x 0.8 mm	1.5 - 2.5	16 - 14	blue
6.3 x 0.8 mm	4 - 6	12 - 10	yellow

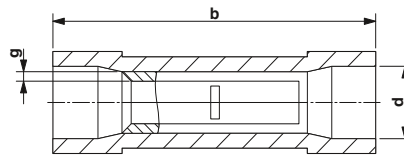
Dimensions [mm]							
a	b	c	d	e	f	g	g
2.80	19.00	10.50	4.30	-	-	0.25	0.25
2.80	19.00	10.50	4.30	-	-	0.25	0.25
4.80	19.50	10.50	4.30	-	-	0.40	0.40
4.80	19.50	10.50	4.30	-	-	0.40	0.40
6.30	21.50	10.50	4.30	-	-	0.40	0.40
4.80	20.00	11.00	5.00	-	-	0.40	0.40
4.80	20.00	11.00	5.00	-	-	0.40	0.40
6.30	22.00	11.00	5.00	-	-	0.40	0.40
6.30	26.00	14.00	6.60	-	-	0.40	0.40

ERC

Technical data		
Brass / electrogalvanized		
-20 ... 105		
Ordering data		
Type	Order No.	Pcs. / Pkt.
C-SCFFI 1,5/2,8X0,5	3240534	50
C-SCFFI 1,5/2,8X0,8	3240535	50
C-SCFFI 1,5/4,8X0,5	3240536	50
C-SCFFI 1,5/4,8X0,8	3240537	50
C-SCFFI 1,5/6,3X0,8	3240538	50
C-SCFFI 2,5/4,8X0,5	3240539	50
C-SCFFI 2,5/4,8X0,8	3240540	50
C-SCFFI 2,5/6,3X0,8	3240547	25
C-SCFFI 6/6,3X0,8	3240541	25

Butt connector, fully insulated

- Conductor through connection protection
- Hard-soldered crimping zone for maximum conductor pull-out force in connection with CRIMPFOX RCI... pliers
- Electrogalvanized
- Halogen-free



Conductor cross sections from 0.5 to 6 mm²

General data			Technical data						
Material / coating									
Temperature range		[°C]							
Description	Cross section		Dimensions [mm]						
	[mm ²]	AWG	a	b	c	d	e	f	g
Butt connector, insulated	0.5 - 1.5	20 - 16	-	25.00	-	4.00	-	-	0.75
	1.5 - 2.5	16 - 14	-	25.30	-	4.50	-	-	0.80
	4 - 6	12 - 10	-	27.50	-	6.50	-	-	1.00

ERIC

Technical data		
CU / electrogalvanized		
-20 ... 105		
Ordering data		
Type	Order No.	Pcs. / Pkt.
C-JCI 1,5	3240061	50
C-JCI 2,5	3240062	50
C-JCI 6	3240063	25



Automatic devices - TOOL fox

Phoenix Contact provides a comprehensive range of innovative automatic tools for flexible and fast processing of conductors and cables where various steps can be automated.

A combination of functionality, quality, and short modification times guarantees high levels of flexibility while ensuring excellent results every time. Cutting machines, stripping machines, and crimping machines are available.

Product range overview

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Portable stripping and crimping machine for taped products	478
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Stripping and crimping machine for bulk goods	480



Automatic stripping



Automatic crimping



Automatic stripping and crimping in a single operation



The CUTFOX 10 automatic cutting device cuts conductors and cables with a cross section of up to 10 mm². Solid and stranded conductors can be cut to length with millimeter precision. The length and number of cuts is entered via the user-friendly display. The CUTFOX 10 automatically adapts to the diameter when there is a change in material.



The WF 1000 stripping machine enables the automatic stripping of conductors with a cross section of up to 6 mm² or cables with a diameter of up to 6 mm, as well as the option of partial stripping. The stripping dimensions are set individually via rotary buttons and shown visually on the display.



The Crimphandy is a portable hand-held device for stripping and crimping ferrules in one step. Automatic monitoring functions ensure permanent, high-quality crimping.



The CF 500 crimping device is characterized by a high press capacity in a compact design. Thanks to the adjustable press capacity and interchangeable dies, it is suitable for insulated cable lugs, tubular cable lugs, and crimping wire lugs, as well as slip-on sleeves and ferrules up to 50 mm².



The CF 3000-2,5 stripping and crimping machine processes taped ferrules with insulating collars in accordance with DIN 46228-4. This device allows conductors with a cross section range of 0.25 - 2.5 mm² to be stripped and fitted with ferrules in one operation. The automatic device can be adapted to various cross sections in under a minute.



The automatic stripping and crimping machine CF 1000 processes loose (bulk) ferrules with insulating collars in accordance with DIN 46228-4. Using this machine, conductors can be stripped and fitted with ferrules in one operation.

Automatic devices

Automatic cutting device for conductors and cables



- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- It impresses with its easy handling and enables materials to be changed in a matter of seconds
- The desired length and number of cuts can be specified in a user-friendly way via the display
- The drive and measurement rolls automatically adjust to each inserted diameter
- Additional inputs and settings are not necessary
- High length accuracy, thanks to separate measuring and transport roll
- Light weight enables mobile use

Notes:
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections from 0.25 to 10 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Cutting efficiency	
Finely stranded	[mm ²]
Solid strand	[mm ²]
Max. throughput	[mm]
Cross section setting	
Maximum number of cuts	[Pcs.]
Length	[mm]
Feed rate	[m/s]
Unit of measurement	mm/inch
Dialog language	German / English / French / Italian

Technical data		
Width	Length	Height
195	295	230

Description
Automatic cutting device , 100 - 240 V/50 - 60 Hz version, for conductors and cables with a diameter of up to 8 mm, solid (up to 2.5 mm ²) and stranded (up to 10 mm ²)

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 10	1206829	1

Cable unwinders, for CUTFOX 10, for accommodating and gently unwinding cable rings and coils, complete

Turntable, for CUTFOX 10 cable unwinders, for accommodating cable rings and cable coils

Retaining bolts, for CUTFOX 10 rotary table, 4 pcs.

Replacement drive rollers, for CUTFOX 10, 2 pcs.

Spare knife set, for CUTFOX 10

Drive rollers for CUTFOX 10, 2 pcs., with PU tread, for sensitive cables/conductors and their insulation

Drive rollers for CUTFOX 10, 2 pcs., with hardened, finely knurled steel tread, for very hard insulation and materials.

Accessories		
Type	Order No.	Pcs. / Pkt.
CUTFOX 10 C-UN	1208393	1
CUTFOX 10 R-C	1208403	1
CUTFOX 10 BAR	1208416	1
CF-10 WHEEL SET	1207271	1
CF-10 CUTTER KNIFE SET	1207284	1
CF-10 WHEEL SET PU	1200098	1
CF-10 WHEEL SET STEEL	1200099	1



Stripping machine



- Compact stripping machine for automatically stripping conductors with a cross section of 0.08 to 6 mm²
- Multi-strand cables with a diameter of up to 6 mm can also be stripped
- Partial stripping is supported
- Even special types of insulation, such as PTFE and silicone, can be stripped in addition to standard types
- The clamping force automatically adjusts itself to the required extraction force, this reduces/prevents pressure points on sensitive insulation
- The stripping dimensions are set individually via rotary buttons and shown visually on the large display

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections from 0.08 to 6 mm²

ERIC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Working cycle	[s]
Stripping power	
Finely stranded	[mm ²]
Stripping length	[mm]
Partial stripping length	[mm]
Max. throughput	[mm]

Technical data		
Width	Length	Height
141	363	221
Weight	9.5	[kg]
Power consumption	160	[VA]
Working cycle	0.3	[s]
Finely stranded	0.08 - 6	[mm ²]
Stripping length	3-20	[mm]
Partial stripping length	2-20	[mm]
Max. throughput	6	[mm]

Description
Stripping machine , 230 V/50 Hz version, for conductors and cables, solid and stranded 0.08 - 6 mm ² (maximum Ø 6 mm), with integrated graphic display
Stripping machine , 120 V/60 Hz version, for conductors and cables, solid and stranded 0.08 - 6 mm ² (maximum Ø 6 mm), with integrated graphic display

Ordering data		
Type	Order No.	Pcs. / Pkt.
WF 1000	1212149	1
WF 1000 120V	1212258	1

Spare stripping knife , for WF 1000
Actuation button for WF 1000
Replacement receptacle tray , for WF 1000

Accessories		
Type	Order No.	Pcs. / Pkt.
WF 1000/SB	1212279	1
WF 1000/TR	1212416	1
WF 1000/COV	1212417	1

Automatic devices

Pneumatic crimping pliers

- These crimping pliers are pneumatic tools for ferrules with a cross section range of 0.25 to 10 mm²
- The perfect alternative to the hand pliers, which protects joints and tendons. They are light, easy to handle, and perfect for control cabinet manufacturing
- The ZAP...T table models are designed for work at the workbench and equipped with a foot switch. This keeps both hands free for equipping the conductor



Conductor cross sections from 0.25 to 2.5 mm²



Conductor cross section of 0.25 to 4 mm²

	Technical data			Technical data		
Application range						
Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 14		0.25 - 4 / 24 - 12		
Pressure range	[bar]	4 - 6		4 - 6		
Air consumption per compression	[l]	0.2		0.2		
Compression		trapezoidal		trapezoidal		
	Ordering data			Ordering data		
Description	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Pneumatic crimping pliers , for ferrules according to DIN 46228, universal die, lateral and front entry	ZAP 25	1203110	1			
Pneumatic crimping pliers , for ferrules according to DIN 46228, three marked die stations, lateral entry				ZAP 40	1212630	1
Pneumatic crimping pliers , for ferrules according to DIN 46228, three marked die stations, lateral entry						
Pneumatic crimping pliers , for ferrules according to DIN 46228, universal die, lateral and front entry, with foot switch and table clamp						
Pneumatic crimping pliers , for ferrules according to DIN 46228, Universal die, lateral and front entry, with foot switch and table clamp						



Conductor cross sections from 4 to 10 mm²



Conductor cross sections from 0.25 to 2.5 mm²



Conductor cross sections from 4 to 10 mm²

Technical data
4 - 10 / 12 - 8
4 - 6
0.2
trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 100	1203259	1

Technical data
0.25 - 2.5 / 24 - 14
4 - 6
0.2
trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 25 T	1203123	1

Technical data
4 - 10 / 12 - 8
4 - 6
0.2
trapezoidal

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZAP 100 T	1203262	1

Automatic devices

Portable crimping machine for ferrules, cable lugs, and connectors



A key feature of the CF 500 is its easy handling and high degree of flexibility. A huge range of different contact types can be processed with the crimping device. Positioning aids make it easier to crimp the contacts.

- The crimp inserts can be changed quickly and easily in a matter of seconds
- The carrier handle means that it is also suitable for mobile use
- The crimping procedure is activated via a foot switch. This keeps both hands free for equipping the conductors with the appropriate contacts
- The contact can be fixed in place before the crimping procedure via an additional two-stage operating mode. This makes it easier to process crimp contacts and prevents incorrect crimping

Notes:
See data sheet for further technical data.
For more information about dies, visit: phoenixcontact.net/products .
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products .



Connectors up to 50 mm²

Dimensions	[mm]
General data	
Weight	[kg] 10
Power consumption	[VA] 160
Pressure	[kN] 10
Working cycle	[s] 1

Description
Crimping device , 230 V/50 Hz version, with quantity counter and foot switch
230 V version
Crimping device , 120 V/60 Hz version, with quantity counter and foot switch
120 V design

CF 500 protective cover , without recess (for all dies without assignment)
For ferrules of up to 6 mm ² (AI 6...)
For TWIN ferrules (AI-TWIN...)
For insulated cable lugs (RCI..., TC4)
For uninsulated cable lugs 0.5 - 10 mm ² (RC...FC...)
For uninsulated cable lugs and tubular cable lugs 0.34 - 2.5 mm ² (RC...FC...)
For slip-on sleeves and flat connectors SC 1,5... and SC 6...
For FBS ... plug-in bridges
CF 500 Locator , for slip-on sleeves (SCF...), 0.1 - 1.5 mm ² , width: 2.8 mm, length: 5 mm
For slip-on sleeves (SCF...), width: 4.8 mm, 0.5 - 2.5 mm ²
For slip-on sleeves (SCF...) width: 6.3 mm, 0.5 - 6 mm ²
For slip-on sleeves (SCM...), width: 6.3 mm, 0.5 - 2.5 mm ²
For slip-on sleeves (SCM...), width: 6.3 mm, 1.5 - 6 mm ²

ERC

Technical data		
Width	Length	Height
140	220	320

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 500-230V	1208348	1
CF 500-120V	1208351	1

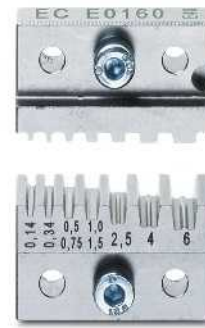
Accessories		
CF 500/COV	1212250	1
CF 500/COV AI 6	1212254	1
CF 500/COV AI TWIN	1212266	1
CF 500/COV RCI	1212255	1
CF 500/COV RC 10	1212252	1
CF 500/COV RCT 2,5	1212253	1
CF 500/COV SC	1212251	1
CF 500/COV FBS	1212462	1
CF 500/LOC SCF 2,8/1,5	1212249	1
CF 500/LOC SCF 4,8/2,5	1212248	1
CF 500/LOC SCF 6,3/6	1212247	1
CF 500/LOC SCM 6,3/2,5	1212264	1
CF 500/LOC SCM 6,3/6	1212265	1

Dies for crimping machine



The large number of crimping dies makes the CF 500 an all-rounder.

- In addition to standard contacts, there are a range of special dies to be used, which (among other things) enable the FBS... jumpers from the CLIPLINE complete system
- FBS ...-4, FBS ...-5, FBS ...-6, FBS ...-8
- If the die you require is not listed, please contact us



ERIC

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
CF 500 die , for ferrules (A... and Al...) 0,25-6 mm ²			
For ferrules (A... and Al...) 10, 16 and 25 mm ²	CF 500/DIE AI 6	1212238	1
	CF 500/DIE AI 25	1212239	1
For ferrules (A... and Al...) 35 and 50 mm ²	CF 500/DIE AI 50	1212261	1
For TWIN ferrules (AI-TWIN...) 2 x 4, 2 x 6 and 2 x 10 mm ²	CF 500/DIE AI-TWIN 10	1212262	1
CF 500 die			
For insulated cable lugs (RCI... and FCI...) 0,14 - 1,5 mm ²	CF 500/DIE RCI 1,5	1212263	1
For insulated cable lugs (RCI... and FCI...) 0,5 - 6 mm ²	CF 500/DIE RCI 6	1212240	1
For insulated cable lugs (RCI... and FCI...) 0,5 - 6 mm ² (asymmetrical crushing mold)	CF 500/DIE RCI 6-1	1212691	1
For cable lugs (RC... and FC...) 0,5 - 10 mm ²	CF 500/DIE RC 10	1212244	1
For cable lugs (RC... and FC...) 16 mm ²	CF 500/DIE RC 16	1212257	1
CF 500 die			
For slip-on sleeves and flat connectors (SCF... and SCM...) 0,1 - 1,5 mm ²	CF 500/DIE SC 1,5	1212241	1
For slip-on sleeves and flat connectors (SCF... and SCM...) 0,5 - 6 mm ²	CF 500/DIE SC 6	1212242	1
CF 500 die			
For turned contacts with pin diameters 2,5 and 4,0 mm (CK 2,5..., CK 4,0) 0,14 - 4 mm ²	CF 500/DIE TC 4	1212237	1
For turned contacts (CK 4,0) 6 - 10 mm ²	CF 500/DIE TC 10	1212260	1
CF 500 die , for MC 4 solar contacts, 2,5 - 6 mm ²			
	CF 500/DIE SR 6-2	1212692	1
CF 500 die , for uninsulated cable lugs (RC..., FC...) and tubular cable lugs 0,34 - 4 mm ²			
For tube lugs 0,34 - 2,5 mm ²	silver CF 500/DIE RCT 4	1212243	1
For standard tubular cable lugs 4 - 10 mm ² , 4 mm² : outer-Ø 5 mm, inner-Ø 3 mm, 6 mm² : outer-Ø 6,5 mm, inner-Ø 3,5 mm, 10 mm² : outer-Ø 7 mm, inner-Ø 4,5 mm	silver CF 500/DIE RCT 10-1	1212245	1
For tube lugs 4 - 10 mm ² , 4 mm² : Outside Ø 5 mm, inside Ø 3 mm, 6 mm² : Outside Ø 5,5 mm, inside Ø 3,8 mm, 10 mm² : Outside Ø 6 mm, inside Ø 4,5 mm	silver CF 500/DIE RCT 10-2	1212246	1
For tube lugs 4 - 10 mm ² , 4 mm² : Outside Ø 5 mm, inside Ø 3 mm, 6 mm² : Outside Ø 6 mm, inside Ø 4 mm, 10 mm² : Outside Ø 8 mm, inside Ø 5 mm	silver CF 500/DIE RCT 10-3	1212256	1
CF 500 die , for assembling FBS ... plug-in bridges			
For FBS ... plug-in bridges	CF 500/DIE FBS	1212461	1

Automatic devices

CRIMPHANDY, portable hand-held machine, for a 1.0 mm² conductor cross section



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- The Crimphandy impresses with its easy, effortless handling, which helps protect your joints and tendons
- The compact lightweight is ideal for mobile use in the field. Up to 2000 crimping operations can be performed thanks to the high-performance lithium-ion polymer battery
- Automatic cross section monitoring prevents faulty crimping as a result of incorrect conductor sizes
- The attachable waste receptacle catches the discarded insulation and thereby helps to ensure a clean working environment

Notes:
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



1.0 mm² conductor cross section

Dimensions	
	[mm]
General data	
Weight	[kg]
Conductor	[mm ²] / AWG
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
43	205	70
0.43	- 1 / -	< 2
Square crimp		

Description	
Portable hand-held machine, battery-powered , for ferrules, 1.0 mm ² , incl. battery and charger, 100 -240 V, in a robust case	
For standard PVC conductors (class 5)	

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,0	1212465	1

Description	
Reel ferrules , 1.0 mm ² , 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack	
Red, according to DIN 46228-4 and NF C 63-023: 1994-02	
Yellow, special color, according to DIN 46228-4 and NF C 63-023: 1994-02	
Replacement battery , for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah	
Replacement charger , for CF CRIMPHANDY..., 100 - 240 V AC	
Receptacle tray for CF-CRIMPHANDY	
Replacement service tool , for CF-CRIMPHANDY 1.0	

Accessories		
Type	Order No.	Pcs. / Pkt.
AI 1,0-8 RD-S	1212523	1000
AI 1,0-8 YE-S	1212782	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,0/SERVICE-TOOL	1212759	1



CRIMPHANDY, portable hand-held machine, for a 1.5 mm² conductor cross section



The product innovation for switchgear manufacturing – the Crimphandy. You can strip and crimp your conductors in under two seconds using this portable hand-held device – in 75% less time than before.

- Ferrules are automatically fed in, in strip form, via the integrated magazine, enabling multiple conductors to be crimped one after another without interruption
- The sleeves can be reloaded within a matter of seconds. The special sleeves with function end prevent incorrect insertion

The square crimp mold is ideal for the terminal blocks from the CLIPLINE complete system

- UT... screw connection terminal blocks
- ST... spring-cage connection terminal blocks
- PT... push-in connection terminal blocks
- COMBI plug-in connection solutions

Notes:

An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



1.5 mm² conductor cross section

Dimensions

[mm]

General data

Weight	[kg]	0.43
Conductor	[mm ²] / AWG	- 1.5 / -
Working cycle	[s]	< 2
Compression		Square crimp

Description

Portable hand-held machine, battery-powered, for ferrules, 1.5 mm², incl. battery and charger, 100 - 240 V, in a robust case

For standard PVC conductors (class 5)

Reel ferrules, 1.5 mm², 8 mm, with plastic sleeve, according to DIN 46228-4, 50 pieces per strip, 20 strips per unit pack

Black, according to DIN 46228-4 and NF C 63-023: 1994-02

Red, special color, according to DIN 46228-4 and NF C 63-023: 1994-02

Replacement battery, for CF Crimphandy..., Li-ion 7.4 V, 0.68 Ah

Replacement charger, for CF CRIMPHANDY..., 100 - 240 V AC

Receptacle tray for CF-CRIMPHANDY

Service tool, for CF-CRIMPHANDY 1,5, for rectifying malfunctions

Technical data

Width	Length	Height
43	205	70

Ordering data

Type	Order No.	Pcs. / Pkt.
CF CRIMPHANDY 1,5	1212466	1

Accessories

AI 1,5-8 BK-S	1212524	1000
AI 1,5-8 RD-S	1212781	1000
CF CRIMPHANDY/ACCU	1212518	1
CF CRIMPHANDY/CHARGER	1212519	1
CF CRIMPHANDY/COVER	1212709	1
CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	1



Automatic devices

Portable automatic stripping and crimping device for taped products



- The compact stripping and crimping machine can be used to process taped ferrules with insulating collars in accordance with DIN 46228-4
- Up to 1000 conductors can be processed an hour
- The conductor is stripped in a single operation and is crimped with a ferrule to a high standard of quality
- Particularly suitable for pre-assembling conductors
- Thanks to its compact and lightweight design, it can also be used as a portable solution for transport between different work locations
- The automatic device can be adapted to various cross sections in under a minute
- Color coding in accordance with ferrule standard DIN 46228-4 makes the assignment of modification components really clear

The suitable taped ferrules support the use of all modular terminal blocks, especially from the **CLIPLINE complete system**:

- UT... screw terminal blocks
- ST spring-cage terminal blocks
- Push-in connection terminal blocks PT
- COMBI plug-in connection solutions

Notes:
An application video can be found in the download area for the relevant product on our website at phoenixcontact.net/products.



Conductor cross sections from 0.25 to 2.5 mm²

ERC

Dimensions	
	[mm]
General data	
Weight	[kg]
Application range	
Conductor	[mm ²] / AWG
Power consumption	[VA]
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
165	320	300
12		
0.25 - 2.5 / 24 - 14		
80		
1.2		
trapezoidal		

Description
Stripping and crimping device, 230 V version, for taped insulated ferrules 0.25 – 2.5 mm², sleeve length 8 mm, incl. conversion kits 0.5 – 2.5 mm²
Stripping and crimping device, 120 V version, for taped insulated ferrules 0.25 – 2.5 mm², sleeve length 8 mm, incl. conversion kits 0.5 – 2.5 mm²

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 3000-2,5	1205477	1
CF 3000-2,5 120V	1205516	1

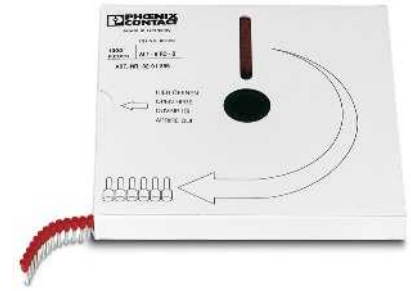
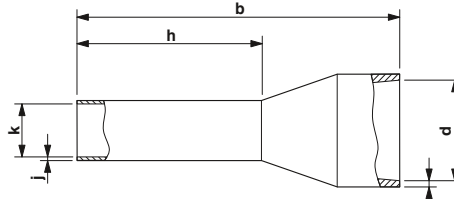
Extension kit, complete, for CF 3000, for taped insulated ferrules, 0.25/0.34 mm², sleeve length 8 mm
Spare locator, 0.25 mm ² 0.5 mm ² 0.75 mm ² 1.0 mm ² 1.5 mm ² 2.5 mm ²
Spare knife, 0.25 mm², adjustable 0.25 mm ² , adjustable 0.5 mm ² 0.75 mm ² 1,0 mm ² 1,5 mm ² 2.5 mm ²

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 3000-TOOLKIT 0,25	1212376	1
CF 3000 LOC 0,25	1212377	1
CF 3000 LOC 0,5	1205639	1
CF 3000 LOC 0,75	1205642	1
CF 3000 LOC 1,0	1205655	1
CF 3000 LOC 1,5	1205668	1
CF 3000 LOC 2,5	1205671	1
CF 3000 AB 0,25	1212380	1
CF 3000 AM 0,5	1205587	1
CF 3000 AM 0,75	1205590	1
CF 3000 AM 1,0	1205600	1
CF 3000 AM 1,5	1205613	1
CF 3000 AM 2,5	1205626	1



Ferrules with plastic sleeve, taped, for the CF 3000-2,5 crimping machine

- The taped ferrules have been developed specifically for the CF 3000-2,5 crimping machine
- Available in the main color ranges up to 2.5 mm²
- Can be used to wire all terminal blocks, especially those of the CLIPLINE complete system



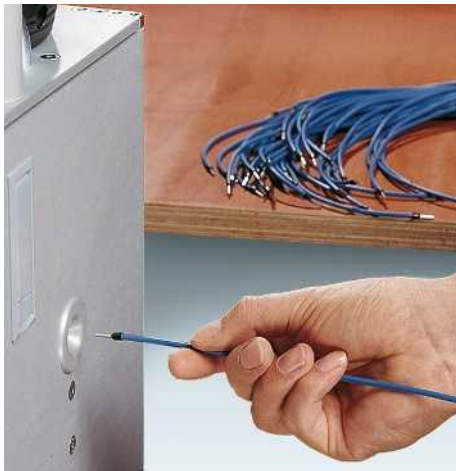
Conductor cross sections from 0.25 to 8 mm²



General data				Technical data								Technical data			
Material / coating												E-CU / tin-plated (galvanic)			
Plastic sleeve material												polypropylene			
Long/short-term temperature												105°C / 120°C			
Description				Dimensions [mm]								Ordering data			
		Cross section [mm ²] AWG		Color		a	b	d	h	i	j	k	Type	Order No.	Pcs. / Pkt.
Taped ferrule, with plastic sleeve, color range as per DIN 46228-4: 1990-09, CSA-certified															
		0.25	22	yellow		-	14.00	2.20	8.00	0.25	0.15	0.80	AI 0,25-8 YE-B	3240251	1000
		0.5	20	white		-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH-B	3201369	1000
		0.75	18	gray		-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 GY-B	3201372	1000
		1	18	red		-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD-B	3201385	1000
		1.5	16	black		-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK-B	3201398	1000
		2.5	14	blue		-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 BU-B	3201408	500
Taped ferrules, with plastic sleeve, color code as per NFC 63-023: 1994-02, CSA-certified															
		0.5	20	white		-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 WH-B	3201369	1000
		0.75	18	blue		-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 BU-B	3201547	1000
		1	18	red		-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 RD-B	3201385	1000
		1.5	16	black		-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 BK-B	3201398	1000
		2.5	14	gray		-	14.00	4.20	8.00	0.30	0.15	2.30	AI 2,5 - 8 GY-B	3201550	500
Taped ferrules, with plastic sleeve, special colors, CSA-certified															
		0.25	22	blue		-	14.00	2.20	8.00	0.25	0.15	0.80	AI 0,25-8 BU-B	3240250	1000
		0.34	22	turquoise		-	14.00	2.20	8.00	0.25	0.15	0.80	AI 0,34-8 TQ-B	3240249	1000
		0.5	20	orange		-	14.00	2.50	8.00	0.25	0.15	1.10	AI 0,5 - 8 OG-B	3201563	1000
		0.75	18	white		-	14.00	2.80	8.00	0.25	0.15	1.30	AI 0,75- 8 WH-B	3201576	1000
		1	18	yellow		-	14.00	3.00	8.00	0.30	0.15	1.50	AI 1 - 8 YE-B	3201589	1000
		1.5	16	red		-	14.00	3.40	8.00	0.30	0.15	1.80	AI 1,5 - 8 RD-B	3201592	1000

Automatic devices

Stripping and crimping machine for bulk goods



The stripping and crimping device can be used to process loose ferrules from 0.25 to 4 mm² with insulating collars according to DIN 46228-4.

The optimized sensor technology has improved the processing of small cross sections.

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- The added counter provides you with an overview of the quantity
- The pull-out forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947
- The press unit can be switched off at the touch of a button so that the CF 1000 can be used as a stripping machine
- A cross section change can be carried out in just a few steps without any need for tools. The sleeve length can be easily set with a screwdriver. Additional settings are not necessary. You can order additional feeder bowls as accessories for an even faster cross section change
- Robust design, suitable for industrial bulk processing
- High reliability thanks to maintenance and wear-free components
- Additional feeder bowls make the cross section change even quicker

Notes:
Accessories and replacement parts for older device versions can be found at phoenixcontact.net/products.



Conductor cross sections from 0.34 to 4 mm²

Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Air consumption per compression	[l]
Working cycle	[s]
Compression	

Description
Stripping and crimping device , 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.34 – 4 mm ² , incl. conversion kits 0.5 – 1.5 mm ² (sleeve length 6 - 12 mm)

Extension kit, complete, for CF 1000, for loose ferrules with insulating collar, from serial number 160637
0.25/0.34 mm ² , sleeve length 6 and 8 mm
2.5 mm ² , sleeve length 6 to 12 mm
4 mm ² , sleeve length 10 mm
Spare knife , V-form, for CF 1000
0.25 to 2.5 mm ²
4 mm ²
Extension components for processing Al...GB sleeves and conductors with thicker insulation. (from device serial number 160637)
Separation plate, for Al...GB, 0.5 to 1.5 mm ²
Sleeve receiver, for Al...GB 0.5 mm ² sleeves
for Al...GB 0.75 mm ² sleeves
for Al...GB 1.0 mm ² sleeves
for Al...GB 1.5 mm ² sleeves
Replacement feeder bowl , for CF 1000-1,5
0.25 - 0.34 mm ² sleeves
0.50 - 1.5 mm ² sleeves
2.5 and 4.0 mm ² sleeves

ERC

Technical data		
Width	Length	Height
240	490	390

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 1000-1,5	1208199	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 1000-TOOLKIT 0,34/6-8	1208226	1
CF 1000-TOOLKIT 2,5/6-12	1208242	1
CF 1000-TOOLKIT 4,0/10	1208271	1
CF 1000 EM	1205215	1
CF 1000 EM4,0	1212663	1
CF 1000 VEP1,5 GB	1206901	1
CF 1000 LOC0,5 GB	1212907	1
CF 1000 LOC0,75 GB	1212908	1
CF 1000 LOC1,0 GB	1212909	1
CF 1000 LOC1,5 GB	1212910	1
CF 1000 SORT0,34	1206890	1
CF 1000 SORT1,5	1204326	1
CF 1000 SORT4,0	1206887	1

Stripping and crimping machine for bulk goods

The CF 1000-10 processes loose ferrules from 4 - 10 mm² with plastic collars according to DIN 46228-4

- The conductor is stripped and crimped with a ferrule to a high standard of quality in a single step, which enables up to 1000 conductors to be processed per hour
- The added counter provides you with an overview of the quantity
- The cross section change can be carried out in just a few steps without any need for tools. The sleeve length can be easily set with a screwdriver. Additional settings are not necessary
- The pull-out forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947



Conductor cross section of 4 / 6 / 10 mm²

ERIC

Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Air consumption per compression	[l]
Working cycle	[s]
Compression	

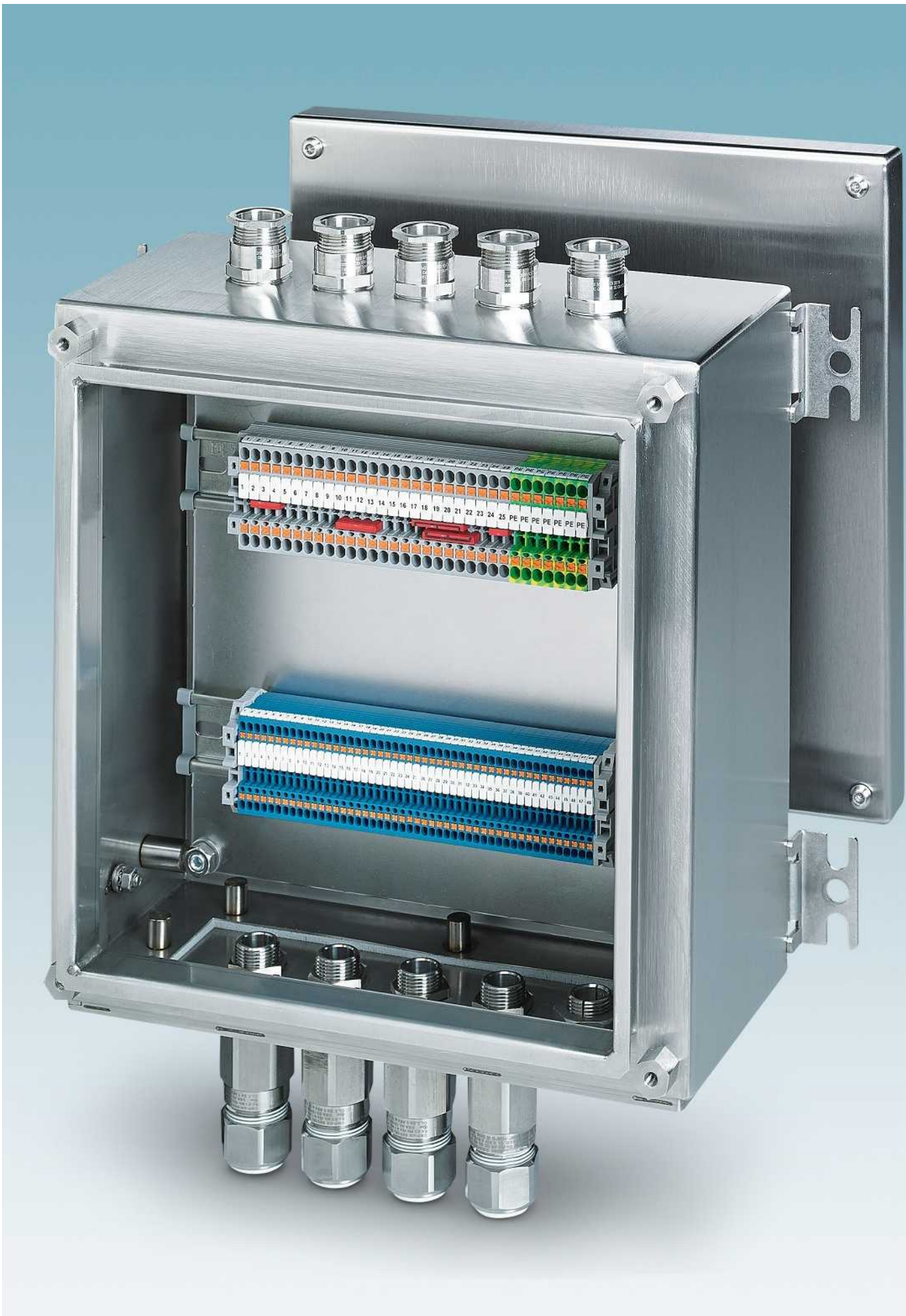
Technical data		
Width	Length	Height
240	490	390
29	100 ... 240 , 50 Hz ... 60 Hz	1.2
		1.5
		trapezoidal

Description
Stripping and crimping device , 100 - 240 V version, electro-pneumatic, for loose ferrules with insulating collar, 4 mm ² , 6 mm ² , and 10 mm ² , without conversion kit

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 1000-10	1212456	1

Conversion kit , complete, for CF 1000-10, for loose ferrules with insulating collar
4 mm ² , sleeve length 10 - 12 mm
6 mm ² , sleeve length 12 mm
10 mm ² , sleeve length 12 mm
Replacement knife , V-form, for CF 1000-10
4 mm ²
6 mm ²
10 mm ²

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 1000-10-TOOLKIT 4/10-12	1212458	1
CF 1000-10-TOOLKIT 6/12	1212459	1
CF 1000-10-TOOLKIT 10/12	1212460	1
CF 1000 EM4,0	1212663	1
CF 1000-10 EM6,0	1212664	1
CF 1000-10 EM10	1212665	1



Installation and mounting material - CABINET add-on

The CABINET add-on range includes terminal boxes as well as mounting material and assembly equipment.

The robust CLIPSAFE stainless steel Ex terminal boxes and empty housings provide all-round protection for your application in industrial environments as well as in process technology. The housing range includes standardized housings with dimensions of up to 1000 x 1000 x 300 mm. We can also adjust these to suit your requirements while adhering to Ex standards according to ATEX and IECEx. Supplied pre-equipped with terminal blocks and cable glands for use in potentially explosive areas with corresponding device approval.

i Your web code: #0140

The installation of switchgear and control cabinets need not be time- and space-consuming if suitable mounting devices are used. We offer a comprehensive range of products for this.

DIN rails and end brackets, for example, ensure the secure attachment of electrical connecting elements and components inside the control cabinet.

Additional security is assured by cover profiles, while shield connection clamps enable EMC-compliant wiring.

The cable management product range includes an extensive range of cable protection systems and cable ducts, as well as cable binders for every application.

Product range overview

CLIPSAFE stainless steel Ex terminal boxes and empty housings 484

CLIPSAFE ABS terminal boxes 496

Ex cable glands 500

Component mounting

NS 15, NS 35, and NS 32 DIN rails 508

End brackets for DIN rails 520

Marking for terminal strips 522

Brackets for mounting on DIN rails 524

Adapter and support bracket 525

Busbars

Neutral busbar 530

Power and branch terminal blocks 531

Connection terminal blocks for busbars 532

Connection terminal blocks and sockets

Europe connectors 534

Junction box connectors 538

Sockets 540

Shielding

Shield connection clamps 542

Supports 544

Cable management

Cable routing 552

Cable ducts 553

Scissors and cutters 556

Cable clamps for DIN rail 557

Cable protection

Protective hoses and screw connections 558

Accessories 576

Cable bundling

Cable binders 582



Empty Ex housing

Choose the right stainless steel housing for your application from 140 Ex-approved versions. Custom dimensions and surface treatments are available on request.



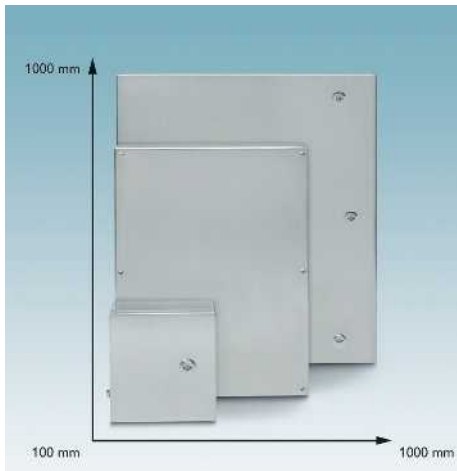
Empty Ex housing processed according to customer specifications

We can customize the housings according to your specifications with threads, bore holes, and rectangular cutouts, taking Ex standards according ATEX and IECEx into consideration.



Ex terminal boxes

Terminal boxes are supplied ready equipped with terminal blocks and cable glands with corresponding ATEX and IECEx device approval. Individual control boxes with electronic components are available on request.



Comprehensive product range

The housings are available as door or cover versions in nine different depths and sizes up to 1000 mm x 1000 mm x 300 mm. The robust housings made from up to 2 mm thick high-grade 1.4404 (V4A), AISI 316L stainless steel are ideal for use under extreme conditions.



Flexible door stop

The door stop can be easily changed according to your individual requirements or the installation situation. The 135° opening angle of the door guarantees comfortable work during maintenance and servicing. The special door and cover seal guarantees a reliable seal even after it has been opened multiple times.



Flexible wall fastening

The mounting brackets that are supplied as standard can be flexibly adapted to the installation situation. Welded-on mounting brackets are available on request.



Custom flange plate equipment

The terminal boxes and empty housings can be equipped with flange plates on up to four sides. The flange plates are equipped with protective sealing frames (patent pending) and with captive mounting screws.



Safe outdoor use

The housings satisfy all the requirements of IP66 protection according to EN 60529, NEMA 4X, and NEMA 250 and are designed for safe use outdoors in the temperature range from -55°C to 135°C. A drainage channel reliably prevents the ingress of moisture and dirt when opened.



Ex cable glands

A comprehensive range of Ex cable glands made from stainless steel or nickel-plated brass is available to safely feed through standard, reinforced, and shielded cables. IP66, IP67, and IP68 protection provides maximum safety.

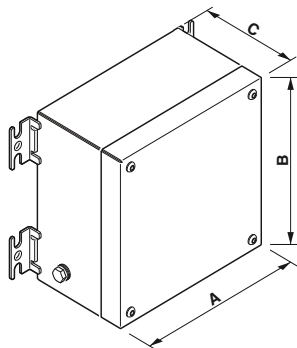
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Installation and mounting material - CABINET add-on

CLIPSAFE stainless steel Ex terminal boxes and empty housings

Empty housing, depth of 80 - 120 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



new



Depth of 80 mm and 100 mm, housing with cover screwed in place, without flange, without mounting plate

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.
1) Matching stainless steel labels: EMP-V4A Lid-S - 0839005 and EMP-V4A Lid-S CUS - 0839006.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Screw-on cover, Allen screws
Housing fixing	External fixing clips
Material strength	1.5

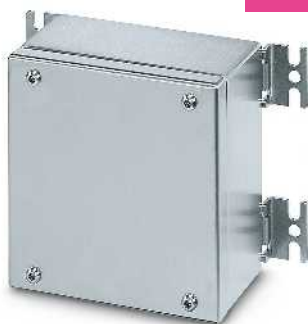
Description	Dimension A x B x C [mm]
Terminal box, without mounting plate	100 x 100 x 80
	150 x 100 x 80
	200 x 100 x 80
	120 x 120 x 100
Terminal box, with mounting plate	150 x 150 x 80
	200 x 150 x 80
	300 x 150 x 80
	400 x 150 x 80
	200 x 200 x 80
	300 x 200 x 80
	150 x 150 x 100
	200 x 200 x 120
	300 x 200 x 120
	400 x 200 x 120
	600 x 200 x 120
	200 x 300 x 120
300 x 300 x 120	

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 100X100X80	0899000	1
E S6 A 150X100X80	0899001	1
E S6 A 200X100X80	0899002	1
E S6 A 120X120X100	0899009	1

Mounting plate , sheet steel, galvanized	
Dimensions: 150 x 150 x 2 mm	
Dimensions: 200 x 150 x 2 mm	
Dimensions: 300 x 150 x 2 mm	
Dimensions: 400 x 150 x 2 mm	
Dimensions: 200 x 200 x 2 mm	
Dimensions: 300 x 200 x 2 mm, can also be used for 200 x 300 mm	
Dimensions: 400 x 200 x 2 mm	
Dimensions: 600 x 200 x 2 mm	
Dimensions: 300 x 300 x 2 mm	
Torque screwdrivers , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID-S	0839005	10

new



Depth of 80 mm,
housing with cover screwed in place,
without flange, with mounting plate

new



Depth of 100 mm,
housing with cover screwed in place,
without flange, with mounting plate

new



Depth of 120 mm,
housing with cover screwed in place,
without flange, with mounting plate

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Screw-on cover, Allen screws
External fixing clips
1.5

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 150X150X80 ¹⁾	0899003	1
E S6 A 200X150X80 ¹⁾	0899004	1
E S6 A 300X150X80 ¹⁾	0899005	1
E S6 A 400X150X80 ¹⁾	0899006	1
E S6 A 200X200X80	0899007	1
E S6 A 300X200X80	0899008	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 150X150X100	0899010	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 200X200X120	0899011	1
E S6 A 300X200X120	0899012	1
E S6 A 400X200X120	0899013	1
E S6 A 600X200X120	0899014	1
E S6 A 200X300X120	0899015	1
E S6 A 300X300X120	0899016	1

Accessories		
AE MP SH 150X150	0161962	1
AE MP SH 200X150	0161963	1
AE MP SH 300X150	0161964	1
AE MP SH 400X150	0161965	1
AE MP SH 200X200	0161966	1
AE MP SH 300X200	0161967	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

Accessories		
AE MP SH 150X150	0161962	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

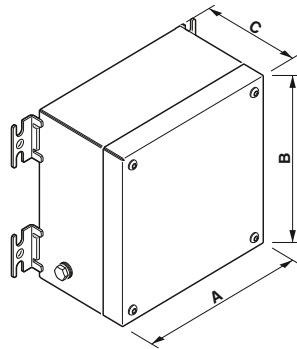
Accessories		
AE MP SH 200X200	0161966	1
AE MP SH 300X200	0161967	1
AE MP SH 400X200	0161968	1
AE MP SH 600X200	0161969	1
AE MP SH 300X300	0161970	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

Installation and mounting material - CABINET add-on

CLIPSAFE stainless steel Ex terminal boxes and empty housings

Empty housing, depth of 160 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



new

Depth of 160 mm, housing with cover screwed in place, without flange, with mounting plate

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Screw-on cover, Allen screws
Housing fixing	External fixing clips
Material strength	1,5

Description	Dimension A x B x C [mm]
Terminal box	200 x 200 x 160
	260 x 260 x 160
	400 x 260 x 160
	200 x 300 x 160
	300 x 300 x 160
	400 x 300 x 160
	260 x 380 x 160
	380 x 380 x 160
	500 x 400 x 160
	382 x 458 x 160
	480 x 480 x 160
	300 x 500 x 160
	400 x 500 x 160
	350 x 500 x 160
	450 x 620 x 160

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 200X200X160	0899017	1
E S6 A 260X260X160	0899019	1
E S6 A 400X260X160	0899021	1
E S6 A 200X300X160	0899023	1
E S6 A 300X300X160	0899025	1
E S6 A 400X300X160	0899027	1
E S6 A 260X380X160	0899029	1
E S6 A 380X380X160	0899031	1
E S6 A 500X400X160	0899033	1
E S6 A 382X458X160	0899035	1
E S6 A 480X480X160	0899037	1
E S6 A 300X500X160	0899039	1
E S6 A 400X500X160	0899041	1
E S6 A 350X500X160	0899043	1
E S6 A 450X620X160	0899045	1

Mounting plate , sheet steel, galvanized	
Dimensions: 200 x 200 x 2 mm	
Dimensions: 260 x 260 x 2 mm	
Dimensions: 400 x 260 x 2 mm	
Dimensions: 300 x 200 x 2 mm, can also be used for 200 x 300 mm	
Dimensions: 300 x 300 x 2 mm	
Dimensions: 400 x 300 x 2 mm	
Dimensions: 260 x 380 x 2 mm	
Dimensions: 380 x 380 x 2 mm	
Dimensions: 500 x 400 x 2 mm	
Dimensions: 382 x 458 x 2 mm	
Dimensions: 480 x 480 x 2 mm	
Dimensions: 300 x 500 x 2 mm	
Dimensions: 350 x 500 x 2 mm	
Dimensions: 450 x 620 x 2 mm	
Torque screwdrivers , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 400X260	0162001	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

new



Depth of 160 mm, housing with cover screwed in place, with flange plates on the bottom, with mounting plate

new



Depth of 160 mm, cabinet with hinged door, without flange, with mounting plate

new



Depth of 160 mm, cabinet with hinged door, with flange plates on the bottom, with mounting plate

Technical data

Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed, 240 grain
-55 ... 135
Screw-on cover, Allen screws

External fixing clips
1.5

Technical data

Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed, 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips
1.5

Technical data

Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed, 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips
1.5

Ordering data

Type	Order No.	Pcs. / Pkt.
E1 S6 A 200X200X160	0899018	1
E1 S6 A 260X260X160	0899020	1
E1 S6 A 400X260X160	0899022	1
E1 S6 A 200X300X160	0899024	1
E1 S6 A 300X300X160	0899026	1
E1 S6 A 400X300X160	0899028	1
E1 S6 A 260X380X160	0899030	1
E1 S6 A 380X380X160	0899032	1
E1 S6 A 500X400X160	0899034	1
E1 S6 A 382X458X160	0899036	1
E1 S6 A 480X480X160	0899038	1
E1 S6 A 300X500X160	0899040	1
E1 S6 A 400X500X160	0899042	1
E1 S6 A 350X500X160	0899044	1
E1 S6 A 450X620X160	0899046	1

Ordering data

Type	Order No.	Pcs. / Pkt.
C S6 A 200X200X160	0899047	1
C S6 A 260X260X160	0899049	1
C S6 A 400X260X160	0899051	1
C S6 A 200X300X160	0899053	1
C S6 A 300X300X160	0899055	1
C S6 A 400X300X160	0899057	1
C S6 A 260X380X160	0899059	1
C S6 A 380X380X160	0899061	1
C S6 A 500X400X160	0899063	1
C S6 A 382X458X160	0899065	1
C S6 A 480X480X160	0899067	1
C S6 A 300X500X160	0899069	1
C S6 A 400X500X160	0899071	1
C S6 A 350X500X160	0899073	1
C S6 A 450X620X160	0899075	1

Ordering data

Type	Order No.	Pcs. / Pkt.
C1 S6 A 200X200X160	0899048	1
C1 S6 A 260X260X160	0899050	1
C1 S6 A 400X260X160	0899052	1
C1 S6 A 200X300X160	0899054	1
C1 S6 A 300X300X160	0899056	1
C1 S6 A 400X300X160	0899058	1
C1 S6 A 260X380X160	0899060	1
C1 S6 A 380X380X160	0899062	1
C1 S6 A 500X400X160	0899064	1
C1 S6 A 382X458X160	0899066	1
C1 S6 A 480X480X160	0899068	1
C1 S6 A 300X500X160	0899070	1
C1 S6 A 400X500X160	0899072	1
C1 S6 A 350X500X160	0899074	1
C1 S6 A 450X620X160	0899076	1

Accessories

AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 450X620	0161983	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

Accessories

AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 450X620	0161983	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Accessories

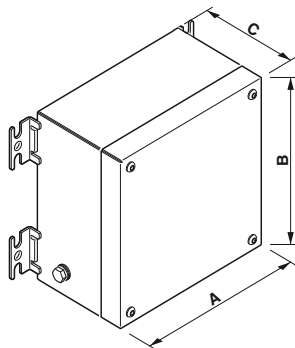
AE MP SH 200X200	0161966	1
AE MP SH 260X260	0161987	1
AE MP SH 450X620	0161983	1
AE MP SH 300X200	0161967	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 260X380	0161972	1
AE MP SH 380X380	0161973	1
AE MP SH 500X400	0161974	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 300X500	0161981	1
AE MP SH 350X500	0161982	1
AE MP SH 450X620	0161983	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Installation and mounting material - CABINET add-on

CLIPSAFE stainless steel Ex terminal boxes and empty housings

Terminal boxes, depth of 200 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



Depth of 200 mm, housing with cover screwed in place, without flange plates, with mounting plate

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

Marking

Baseefa 14 ATEX 0393U

IECEx BAS 14.0179U

⊕ II 2 G Ex e IIC Gb

⊕ II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Screw-on cover, Allen screws
Housing fixing	External fixing clips
Material strength	1,5

Description	Dimension A x B x C [mm]
Terminal box, with cover screwed in place	260 x 300 x 200
	300 x 300 x 200
	300 x 400 x 200
	400 x 400 x 200
Control box, with door and twist lock	260 x 300 x 200
	600 x 400 x 200

Ordering data		
Type	Order No.	Pcs. / Pkt.
E S6 A 260X300X200	0899077	1
E S6 A 300X300X200	0899078	1
E S6 A 300X400X200	0899079	1
E S6 A 400X400X200	0899080	1

Mounting plate , sheet steel, galvanized	
Dimensions: 260 x 300 x 2 mm	
Dimensions: 300 x 300 x 2 mm	
Dimensions: 400 x 300 x 2 mm	
Dimensions: 400 x 400 x 2 mm	
Dimensions: 600 x 400 x 2 mm	
Torque screwdrivers , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 260X300	0161984	1
AE MP SH 300X300	0161970	1
AE MP SH 400X300	0161971	1
AE MP SH 400X400	0161985	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS LID	0839003	10

new



Depth of 200 mm, cabinet with hinged door,
 without flange plates, with mounting plate

Technical data

Stainless steel, 316L/1.4404
 Silicon
 IP66
 7
 brushed , 240 grain
 -55 ... 135
 Door with hinge, Quarter turn locking with two-way key bit

 External fixing clips
 1.5

Ordering data

Type	Order No.	Pcs. / Pkt.
C S6 A 260X300X200	0899081	1
C S6 A 300X300X200	0899082	1
C S6 A 600X400X200	0899083	1

Accessories

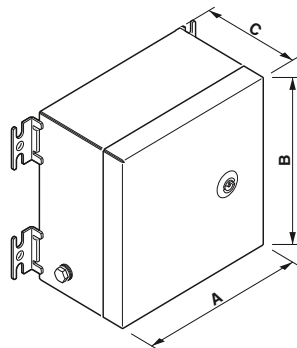
AE MP SH 260X300	0161984	1
AE MP SH 300X300	0161970	1
AE MP SH 600X400	0161986	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Installation and mounting material - CABINET add-on

CLIPSAFE stainless steel Ex terminal boxes and empty housings

Empty housing, depth of 210 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



new

Depth of 210 mm, cabinet with hinged door, without flange plates, with mounting plate

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

Marking

Baseefa 14 ATEX 0393U

IECEX BAS 14.0179U

Ex II 2 G Ex e IIC Gb

Ex II 2 D Ex tb IIIC Db

-55°C ≤ Ta ≤ +135°C Type IP66

Notes:

Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products.

Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products.

In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	
Temperature resistance	[°C]
Type of locking	
Housing fixing	
Material strength	[mm]

Technical data

Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed, 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
1,5

Ordering data

Description	Dimension A x B x C [mm]
Terminal box, with door and twist lock	260 x 260 x 210
	300 x 300 x 210
	260 x 380 x 210
	600 x 400 x 210
	382 x 458 x 210
	480 x 480 x 210
	350 x 500 x 210
	600 x 600 x 210
	450 x 620 x 210
	550 x 740 x 210
	508 x 762 x 210
	640 x 860 x 210
	610 x 914 x 210
	740 x 980 x 210

Type	Order No.	Pcs. / Pkt.
C S6 A 260X260X210	0899084	1
C S6 A 300X300X210	0899087	1
C S6 A 260X380X210	0899090	1
C S6 A 600X400X210	0899093	1
C S6 A 382X458X210	0899096	1
C S6 A 480X480X210	0899099	1
C S6 A 350X500X210	0899102	1
C S6 A 600X600X210	0899105	1
C S6 A 450X620X210	0899108	1
C S6 A 550X740X210	0899111	1
C S6 A 508X762X210	0899114	1
C S6 A 640X860X210	0899117	1
C S6 A 610X914X210	0899120	1
C S6 A 740X980X210	0899123	1

Accessories

Mounting plate , sheet steel, galvanized	
Dimensions: 260 x 260 x 2 mm	
Dimensions: 300 x 300 x 2 mm	
Dimensions: 260 x 380 x 2 mm	
Dimensions: 600 x 400 x 2 mm	
Dimensions: 382 x 458 x 2 mm	
Dimensions: 480 x 480 x 2 mm	
Dimensions: 350 x 500 x 2 mm	
Dimensions: 600 x 600 x 2 mm	
Dimensions: 450 x 620 x 2 mm	
Dimensions: 550 x 740 x 2 mm	
Dimensions: 508 x 762 x 2 mm	
Dimensions: 640 x 860 x 2 mm	
Dimensions: 610 x 914 x 2 mm	
Dimensions: 740 x 980 x 2 mm	
Torque screwdrivers , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	

Type	Order No.	Pcs. / Pkt.
AE MP SH 260X260	0161987	1
AE MP SH 300X300	0161970	1
AE MP SH 260X380	0161972	1
AE MP SH 600X400	0161986	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 350X500	0161982	1
AE MP SH 600X600	0161988	1
AE MP SH 450X620	0161983	1
AE MP SH 550X740	0161989	1
AE MP SH 508X762	0161990	1
AE MP SH 640X860	0161991	1
AE MP SH 610X914	0161992	1
AE MP SH 740X980	0161993	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10



Depth of 210 mm, cabinet with hinged door, with flange plates on the bottom, with mounting plate



Depth of 210 mm, cabinet with hinged door, with flange plates on the bottom, left, and right, with mounting plate

Technical data

Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips
1.5

Technical data

Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit

External fixing clips
1.5

Ordering data

Type	Order No.	Pcs. / Pkt.
C1 S6 A 260X260X210	0899085	1
C1 S6 A 300X300X210	0899088	1
C1 S6 A 260X380X210	0899091	1
C1 S6 A 600X400X210	0899094	1
C1 S6 A 382X458X210	0899097	1
C1 S6 A 480X480X210	0899100	1
C1 S6 A 350X500X210	0899103	1
C1 S6 A 600X600X210	0899106	1
C1 S6 A 450X620X210	0899109	1
C1 S6 A 550X740X210	0899112	1
C1 S6 A 508X762X210	0899115	1
C1 S6 A 640X860X210	0899118	1
C1 S6 A 610X914X210	0899121	1
C1 S6 A 740X980X210	0899124	1

Ordering data

Type	Order No.	Pcs. / Pkt.
C3 S6 A 260X260X210	0899086	1
C3 S6 A 300X300X210	0899089	1
C3 S6 A 260X380X210	0899092	1
C3 S6 A 600X400X210	0899095	1
C3 S6 A 382X458X210	0899098	1
C3 S6 A 480X480X210	0899101	1
C3 S6 A 350X500X210	0899104	1
C3 S6 A 600X600X210	0899107	1
C3 S6 A 450X620X210	0899110	1
C3 S6 A 550X740X210	0899113	1
C3 S6 A 508X762X210	0899116	1
C3 S6 A 640X860X210	0899119	1
C3 S6 A 610X914X210	0899122	1
C3 S6 A 740X980X210	0899125	1

Accessories

AE MP SH 260X260	0161987	1
AE MP SH 300X300	0161970	1
AE MP SH 260X380	0161972	1
AE MP SH 600X400	0161986	1
AE MP SH 382X458	0161975	1
AE MP SH 480X480	0161976	1
AE MP SH 350X500	0161982	1
AE MP SH 600X600	0161988	1
AE MP SH 450X620	0161983	1
AE MP SH 550X740	0161989	1
AE MP SH 508X762	0161990	1
AE MP SH 640X860	0161991	1
AE MP SH 610X914	0161992	1
AE MP SH 740X980	0161993	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Accessories

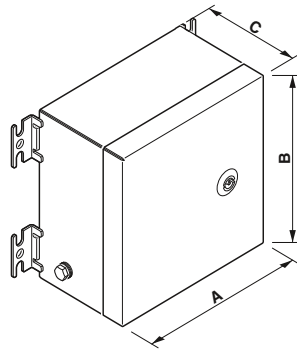
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AE MP SH 382X458	0161975	1
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AE MP SH 450X620	0161983	1
AE MP SH 550X740	0161989	1
AE MP SH 508X762	0161990	1
AE MP SH 640X860	0161991	1
AE MP SH 610X914	0161992	1
AE MP SH 740X980	0161993	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Installation and mounting material - CABINET add-on

CLIPSAFE stainless steel Ex terminal boxes and empty housings

Empty housing, depth of 240 mm, 260 mm, and 300 mm

- Defined stops and the special seal support ensure optimum seal compression and therefore satisfy the stringent requirements for housing leak-tightness
- From a depth (C) of 160 mm, up to four housing sides can be fitted with flange plates on request
- The stainless steel marking label supplied as standard is fitted on the outside away from the seal area in the bore holes provided
- The patented protective seal frame protects the flange plate seal against external influences
- Additional ground bolts are attached to the door and housing for easy door stop replacement
- The housing design features a large assembly opening for easy access to the terminal boxes. The flat seal edge prevents injury during installation, servicing or maintenance work



Depth of 240 mm, cabinet with hinged door, without flange plates, with mounting plate

Terminal box marking

An extensive range of marking materials is available for the durable and unique marking of terminal boxes; see "Device marking" section

Marking

Baseefa 14 ATEX 0393U
 IECEx BAS 14.0179U
 ⓧ II 2 G Ex e IIC Gb
 ⓧ II 2 D Ex tb IIIC Db
 -55°C ≤ Ta ≤ +135°C Type IP66

Notes:
Detailed installation and assembly instructions for use in Ex areas: see installation instructions and the download area for the item at www.phoenixcontact.net/products .
Torque values for all mounting screws are documented in the installation instructions supplied as standard and in the product area of the website at www.phoenixcontact.net/products .
In the case of sides with a length of ≥ 600 mm, the material thickness increases to 2 mm.

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	brushed, 240 grain
Temperature resistance	[°C]
Type of locking	Door with hinge, Quarter turn locking with two-way key bit
Housing fixing	External fixing clips
Material strength	[mm]

Technical data	
Material	Stainless steel, 316L/1.4404
Sealing material	Silicon
Degree of protection	IP66
Impact strength	7
Surface characteristics	brushed, 240 grain
Temperature resistance	-55 ... 135
Type of locking	Door with hinge, Quarter turn locking with two-way key bit
Housing fixing	External fixing clips
Material strength	2

Description	Dimension A x B x C [mm]
Terminal box with door and twist lock, without flange, including mounting plate	600 x 650 x 240
	400 x 650 x 260
	600 x 600 x 300
	508 x 762 x 300
	600 x 800 x 300
	800 x 800 x 300
	740 x 980 x 300
Control box with door and twist lock, including flange and mounting plate	1000 x 1000 x 300
	600 x 600 x 300
	508 x 762 x 300
	600 x 800 x 300
	800 x 800 x 300
	740 x 980 x 300
	1000 x 1000 x 300

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 600X650X240	0899126	1

Mounting plate , sheet steel, galvanized	
Dimensions: 600 x 650 x 2 mm	
Dimensions: 400 x 650 x 2 mm	
Dimensions: 600 x 600 x 2 mm	
Dimensions: 508 x 762 x 2 mm	
Dimensions: 600 x 800 x 2 mm	
Dimensions: 800 x 800 x 2 mm	
Dimensions: 740 x 980 x 2 mm	
Dimensions: 1000 x 1000 x 2 mm	
Torque screwdrivers , adjustable from 3 - 6 Nm	black
Screw bit , hexagonal, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173, size: hex 3 x 50 mm	silver
Size: hex 4 x 50 mm	silver
Stainless steel label , unmarked, 70 x 50 x 1 mm	

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 600X650	0161994	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10



Depth of 260 mm, cabinet with hinged door, without flange plates, with mounting plate



Depth of 300 mm, cabinet with hinged door, without flange plates, with mounting plate



Depth of 300 mm, cabinet with hinged door, with flange plates on the bottom, with mounting plate

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Technical data
Stainless steel, 316L/1.4404
Silicon
IP66
7
brushed , 240 grain
-55 ... 135
Door with hinge, Quarter turn locking with two-way key bit
External fixing clips
2

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 400X650X260	0899127	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
C S6 A 600X600X300	0899128	1
C S6 A 508X762X300	0899130	1
C S6 A 600X800X300	0899132	1
C S6 A 800X800X300	0899134	1
C S6 A 740X980X300	0899136	1
C S6 A 1000X1000X300	0899138	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
C1 S6 A 600X600X300	0899129	1
C1 S6 A 508X762X300	0899131	1
C1 S6 A 600X800X300	0899133	1
C1 S6 A 800X800X300	0899135	1
C1 S6 A 740X980X300	0899137	1
C1 S6 A 1000X1000X300	0899139	1

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 400X650	0161995	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 600X600	0161988	1
AE MP SH 508X762	0161990	1
AE MP SH 600X800	0161996	1
AE MP SH 800X800	0161997	1
AE MP SH 740X980	0161993	1
AE MP SH 1000X1000	0161998	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

Accessories		
Type	Order No.	Pcs. / Pkt.
AE MP SH 600X600	0161988	1
AE MP SH 508X762	0161990	1
AE MP SH 600X800	0161996	1
AE MP SH 800X800	0161997	1
AE MP SH 740X980	0161993	1
AE MP SH 1000X1000	0161998	1
TSD-M 6NM	1212226	1
SF-BIT-HEX 3-50	1212647	5
SF-BIT-HEX 4-50	1212648	5
EMP-V4A CS DOOR	0839001	10

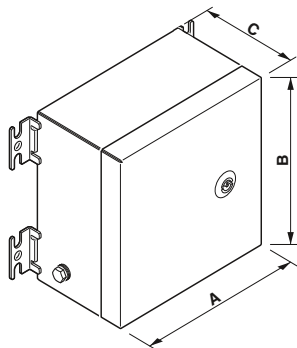
CLIPSAFE ABS terminal boxes

Assembled terminal boxes

- Terminal box with cover, pre-assembled terminal strip, and push-in technology (2.5 mm² cross section)
- Available pre-assembled with 6, 12 or 20 terminal blocks
- Available with 2, 3 or 4 M20 plastic cable glands depending on the version
- Fast wiring without the need for additional components

Connection data for the terminal blocks

Nominal current I_N : 24 A (at 2.5 mm²)
 Nominal voltage U_N : 800 V
 Maximum load current: 30 A (with a 4 mm² conductor cross section)
 Min. conductor cross section, solid: 0.14 mm²
 Max. conductor cross section, solid: 4 mm²



Terminal box with 6 2.5 mm² terminal blocks and push-in technology

Material	
Sealing material	
Degree of protection	
Impact strength	[J]
Surface characteristics	- , -
Temperature resistance	[°C]
Type of locking	
Housing fixing	

Technical data	
ABS	
Silicon	
IP66	
2 according to EN 62262/EN 50102	
- , -	
-40 ... 70	
Screw-on cover, Phillips-Recess	
Screw connection in housing base	

Description	Dimension A x B x C [mm]
Terminal box with 6 2.5 mm ² terminal blocks and 2 x M20 cable glands (1 below/1 above)	85 x 83 x 60
Terminal box with 12 2.5 mm ² terminal blocks and 3 x M20 cable glands (1 below/2 above)	130 x 80 x 60
Terminal box with 20 2.5 mm ² terminal blocks and 4 x M20 cable glands (1 below/3 above)	180 x 130 x 100

Ordering data		
Type	Order No.	Pcs. / Pkt.
E AB A 85X83X60 6PT	3001998	1



Terminal box with 12 2.5 mm² terminal blocks and push-in technology



Terminal box with 20 2.5 mm² terminal blocks and push-in technology

Technical data
ABS
Silicon
IP66
2 according to EN 62262/EN 50102
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Technical data
ABS
Silicon
IP66
2 according to EN 62262/EN 50102
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data		
Type	Order No.	Pcs. / Pkt.
E AB A 130X80X60 12PT	3001999	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
E AB A 180X130X100 20PT	3002001	1

CLIPSAFE ABS terminal boxes

Assembled terminal boxes

Terminal box with cover, pre-assembled terminal strip, and screw connection technology (2.5 mm² cross section)

- Available pre-assembled with 6, 12 or 20 terminal blocks
- Available with 2, 3 or 4 M20 plastic cable glands depending on the version
- Fast wiring without the need for additional components

Connection data for the terminal blocks

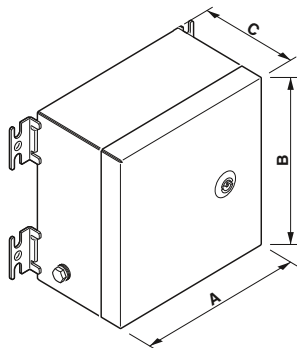
Nominal current I_N : 24 A

Nominal voltage U_N : 800 V

Maximum load current: 24 A

Min. conductor cross section, solid: 0.5 mm²

Max. conductor cross section, solid: 4 mm²



Terminal box with 6 2.5 mm² terminal blocks and screw connection technology

Material
Sealing material
Degree of protection
Impact strength
Surface characteristics
Temperature resistance
Type of locking
Housing fixing

[J] 2 according to EN 62262/EN 50102
[°C] -40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Technical data

ABS
Silicon
IP66
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data

Description	Dimension A x B x C [mm]
Terminal box with 6 2.5 mm ² terminal blocks and 2 x M20 cable glands (1 below/1 above)	85 x 83 x 60
Terminal box with 12 2.5 mm ² terminal blocks and 3 x M20 cable glands (1 below/2 above)	130 x 80 x 60
Terminal box with 20 2.5 mm ² terminal blocks and 4 x M20 cable glands (1 below/3 above)	180 x 130 x 100

Type	Order No.	Pcs. / Pkt.
E AB A 85X83X60 6TB	3002002	1

new



Terminal box with 12 2.5 mm² terminal blocks and screw connection technology

new



Terminal box with 20 2.5 mm² terminal blocks and screw connection technology

Technical data

ABS
Silicon
IP66
2 according to EN 62262/EN 50102
-, -
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Technical data

ABS
Silicon
IP66
2 according to EN 62262/EN 50102
-, -
-40 ... 70
Screw-on cover, Phillips-Recess
Screw connection in housing base

Ordering data

Type	Order No.	Pcs. / Pkt.
E AB A 130X80X60 12TB	3002003	1

Ordering data

Type	Order No.	Pcs. / Pkt.
E AB A 180X130X100 20TB	3002004	1

Installation and mounting material - CABINET add-on

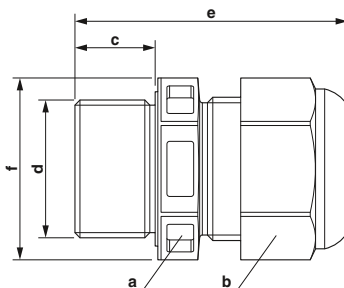
Ex cable glands

Plastic cable glands, metric, Ex protection

- Halogen-free
- Vibration-proof plastic cable gland with protection against over-tightening of the cap nut
- Glow-wire test: 750°C
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Notes:

For counter nuts, see page 506



new



Plastic cable gland



Ex: Ex IIIC

PTB 13 ATEX 1015 X / IECEx PTB 13.0034X

Technical data

Polyamide
EPDM
EPDM
-40°C ... 75°C

General data

Cable gland material
Seal material
O-ring material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12	black	3.00 - 6.00
M16	black	4.50 - 9.00
M20	black	7.00 - 13.00
M25	black	10.00 - 17.00
M32	black	13.00 - 21.00
M40	black	17.00 - 28.00
M50	black	23.00 - 35.00
M63	black	34.00 - 48.00

Dimensions [mm]							
a	b	c	d	e	f	g	
16.00	16.00	15.00	12.00	35.00	18.00	-	
20.00	20.00	15.00	16.00	37.00	23.00	-	
24.00	24.00	15.00	20.00	41.00	28.00	-	
29.00	29.00	15.00	25.00	43.00	33.00	-	
36.00	36.00	15.00	32.00	45.00	41.00	-	
46.00	46.00	18.00	40.00	58.00	51.00	-	
55.00	55.00	18.00	50.00	63.00	61.00	-	
68.00	68.00	18.00	63.00	67.00	75.00	-	

Ordering data

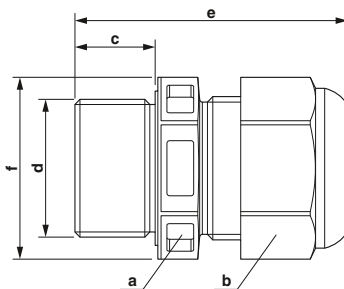
Type	Order No.	Pcs. / Pkt.
G-ESIS-M12-S68L-PEPDS-BK	1415106	10
G-ESIS-M16-S68L-PEPDS-BK	1415107	10
G-ESIS-M20-S68L-PEPDS-BK	1415108	10
G-ESIS-M25-M68L-PEPDS-BK	1415109	10
G-ESIS-M32-M68L-PEPDS-BK	1415110	5
G-ESIS-M40-M68L-PEPDS-BK	1415111	5
G-ESIS-M50-L68L-PEPDS-BK	1415112	1
G-ESIS-M63-L68L-PEPDS-BK	1415113	1

Plastic cable glands, metric, Ex protection

- Halogen-free
- Vibration-proof plastic cable gland with protection against over-tightening of the cap nut
- Glow-wire test: 750°C
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Notes:

For counter nuts, see page 506



new



Plastic cable gland



Ex: Ex IIIC

PTB 13 ATEX 1015 X / IECEx PTB 13.0034X

Technical data

Polyamide
EPDM
EPDM
-40°C ... 75°C

General data

Cable gland material
Seal material
O-ring material
Ambient temperature (operation)

Thread type	Color	Clamping area [mm]
M12	black/blue	3.00 - 6.00
M16	black/blue	4.50 - 9.00
M20	black/blue	7.00 - 13.00
M25	black/blue	10.00 - 17.00
M32	black/blue	13.00 - 21.00
M40	black/blue	17.00 - 28.00
M50	black/blue	23.00 - 35.00
M63	black/blue	34.00 - 48.00

Dimensions [mm]							
a	b	c	d	e	f	g	
16.00	16.00	15.00	12.00	35.00	18.00	-	
20.00	20.00	15.00	16.00	37.00	23.00	-	
24.00	24.00	15.00	20.00	41.00	28.00	-	
29.00	29.00	15.00	25.00	43.00	33.00	-	
36.00	36.00	15.00	32.00	45.00	41.00	-	
46.00	46.00	18.00	40.00	58.00	51.00	-	
55.00	55.00	18.00	50.00	63.00	61.00	-	
68.00	68.00	18.00	63.00	67.00	75.00	-	

Ordering data

Type	Order No.	Pcs. / Pkt.
G-ESIS-M12-S68L-PEPDS-BL	1415114	10
G-ESIS-M16-S68L-PEPDS-BL	1415116	10
G-ESIS-M20-S68L-PEPDS-BL	1415117	10
G-ESIS-M25-M68L-PEPDS-BL	1415118	10
G-ESIS-M32-M68L-PEPDS-BL	1415119	5
G-ESIS-M40-M68L-PEPDS-BL	1415120	5
G-ESIS-M50-L68L-PEPDS-BL	1415121	1
G-ESIS-M63-L68L-PEPDS-BL	1415122	1

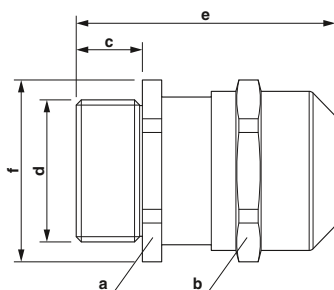
new

Brass cable glands, metric, Ex protection

- Halogen-free
- Polyamide compression ring
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Notes:
For counter nuts, see page 506



Brass cable gland

Ex: PTB 04 ATEX 1112 X / IECEx PTB 13.0027X

General data

Cable gland material
Seal material
O-ring material
Ambient temperature (operation)

Technical data

Nickel-plated brass
EPDM
EPDM
-40°C ... 75°C

Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	4.00 - 7.00	-	16.00	12.00	12.00	30.00	18.00	-
M16	silver	5.00 - 10.00	-	20.00	12.00	16.00	33.00	22.00	-
M20	silver	6.00 - 13.00	-	24.00	12.00	20.00	35.00	27.00	-
M25	silver	10.00 - 17.00	-	29.00	12.00	25.00	38.00	32.00	-
M32	silver	13.00 - 21.00	-	36.00	15.00	32.00	43.00	40.00	-
M40	silver	16.00 - 28.00	-	46.00	15.00	40.00	51.00	51.00	-
M50	silver	21.00 - 35.00	-	55.00	15.00	50.00	57.00	61.00	-
M63	silver	34.00 - 48.00	-	68.00	15.00	63.00	61.00	75.00	-

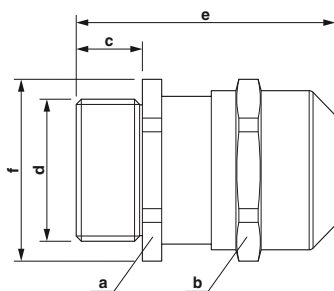
Type	Order No.	Pcs. / Pkt.
G-ESIS-M12-S68N-NEPDS-S	1415123	10
G-ESIS-M16-S68N-NEPDS-S	1415124	10
G-ESIS-M20-S68N-NEPDS-S	1415125	10
G-ESIS-M25-M68N-NEPDS-S	1415126	10
G-ESIS-M32-M68L-NEPDS-S	1415127	5
G-ESIS-M40-M68L-NEPDS-S	1415129	5
G-ESIS-M50-L68L-NEPDS-S	1415146	1
G-ESIS-M63-L68L-NEPDS-S	1415147	1

Brass EMC cable glands, metric, Ex protection

- Halogen-free
- Polyamide compression ring
- Permanent braided shield contact by means of grounding cones in the EMC screw connection
- Degree of protection: IP66/IP68, 5 bar (30 minutes)

Marking:

- II 2 G Ex e IIC Gb
- II 2 D Ex IIIC Db IP68



Notes:
For ribbed counter nut, see page 507



Brass EMC cable gland

Ex: PTB 04 ATEX 1112 X / IECEx PTB 13.0027X

General data

Cable gland material
Seal material
O-ring material
Ambient temperature (operation)

Technical data

Nickel-plated brass
EPDM
EPDM
-40°C ... 75°C

Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	4.00 - 7.00	16.00	16.00	12.00	12.00	30.00	18.00	-
M16	silver	5.00 - 10.00	20.00	20.00	12.00	16.00	33.00	22.00	-
M20	silver	6.00 - 13.00	24.00	24.00	12.00	20.00	35.00	27.00	-
M25	silver	10.00 - 17.00	29.00	29.00	12.00	25.00	38.00	32.00	-
M32	silver	13.00 - 21.00	36.00	36.00	15.00	32.00	43.00	40.00	-
M40	silver	16.00 - 28.00	46.00	46.00	15.00	40.00	51.00	51.00	-
M50	silver	21.00 - 35.00	55.00	55.00	15.00	50.00	57.00	61.00	-
M63	silver	34.00 - 48.00	68.00	68.00	15.00	63.00	61.00	75.00	-

Type	Order No.	Pcs. / Pkt.
G-ESISEC-M12-S68N-NEPDS-S	1415148	10
G-ESISEC-M16-S68N-NEPDS-S	1415149	10
G-ESISEC-M20-S68N-NEPDS-S	1415163	10
G-ESISEC-M25-M68N-NEPDS-S	1415165	10
G-ESISEC-M32-M68L-NEPDS-S	1415166	5
G-ESISEC-M40-M68L-NEPDS-S	1415168	5
G-ESISEC-M50-L68L-NEPDS-S	1415169	1
G-ESISEC-M63-L68L-NEPDS-S	1415170	1

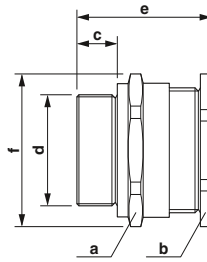
Installation and mounting material - CABINET add-on

Ex cable glands

Brass cable glands, metric, Ex protection

The cable glands for unarmored and braided cables provide flameproof (type "d"), increased safety (type "e"), and restricted breathing (type "nR") protection.

– Degree of protection: IP66/IP67/IP68



Brass cable gland

Notes:

For counter nuts, see page 506

Ex: CIDET EAC Ex NEPSI
SIRA13ATEX1068X / IECEx SIR13.0023X

Technical data

Nickel-plated brass
Thermoplastic elastomers
Viton
-60°C ... 130°C

General data

Cable gland material
Seal material
O-ring material
Ambient temperature (operation)

Ordering data

Thread type	Color	Clamping area [mm]
M20	silver	6.50 - 14.00
M25	silver	11.10 - 20.00
M32	silver	17.00 - 26.30
M40	silver	23.50 - 32.20
M50	silver	35.60 - 44.10
M63	silver	47.20 - 56.00

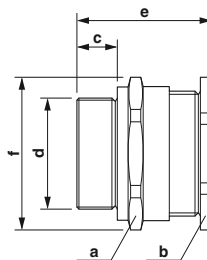
Dimensions [mm]							
a	b	c	d	e	f	g	
27.00	27.00	15.00	20.00	39.00	29.70	-	
36.00	36.00	15.00	25.00	41.00	39.60	-	
41.00	41.00	15.00	32.00	42.00	45.10	-	
50.00	50.00	15.00	40.00	43.00	55.00	-	
60.00	60.00	15.00	50.00	45.00	66.00	-	
75.00	75.00	15.00	63.00	45.00	82.50	-	

Type	Order No.	Pcs. / Pkt.
G-ESS-M20-S66L-NTES-S	1411075	20
G-ESS-M25-M66L-NTES-S	1411077	20
G-ESS-M32-M66L-NTES-S	1411079	10
G-ESS-M40-L66L-NTES-S	1411081	2
G-ESS-M50-L66L-NTES-S	1411084	2
G-ESS-M63-L66L-NTES-S	1411086	2

Stainless steel cable glands, metric, Ex protection

The cable glands for unarmored and braided cables provide flameproof (type "d"), increased safety (type "e"), and restricted breathing (type "nR") protection.

– Degree of protection: IP66/IP67/IP68



Stainless steel cable gland

Notes:

For counter nuts, see page 507

Ex: CIDET EAC Ex NEPSI
SIRA13ATEX1068X / IECEx SIR13.0023X

Technical data

Stainless steel 1.4404
Thermoplastic elastomers
Viton
-60°C ... 130°C

General data

Cable gland material
Seal material
O-ring material
Ambient temperature (operation)

Ordering data

Thread type	Color	Clamping area [mm]
M20	silver	6.50 - 14.00
M25	silver	11.10 - 20.00
M32	silver	17.00 - 26.30
M40	silver	23.50 - 32.20
M50	silver	35.60 - 44.10
M63	silver	47.20 - 56.00

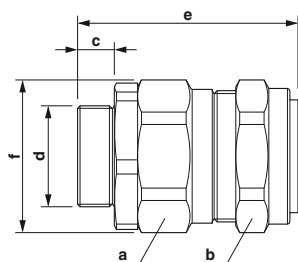
Dimensions [mm]							
a	b	c	d	e	f	g	
27.00	27.00	15.00	20.00	39.00	29.70	-	
36.00	36.00	15.00	25.00	41.00	39.60	-	
41.00	41.00	15.00	32.00	42.00	45.10	-	
50.00	50.00	15.00	40.00	43.00	55.00	-	
60.00	60.00	15.00	50.00	45.00	66.00	-	
75.00	75.00	15.00	63.00	45.00	82.50	-	

Type	Order No.	Pcs. / Pkt.
G-ESS-M20-S66L-STES-S	1411076	20
G-ESS-M25-M66L-STES-S	1411078	20
G-ESS-M32-M66L-STES-S	1411080	10
G-ESS-M40-L66L-STES-S	1411082	2
G-ESS-M50-L66L-STES-S	1411085	2
G-ESS-M63-L66L-STES-S	1411087	2

Brass cable glands, metric, Ex protection

The cable glands for armored cables provide increased safety (type "e") protection.

– Degree of protection: IP66/IP67/IP68



Brass cable gland

Notes:
For counter nuts, see page 506

Ex: CIDET EAC Ex NEPSI
SIRA13ATEX1070X / IECEx SIR13.0025X

General data	
Cable gland material	
Seal material	
O-ring material	
Ambient temperature (operation)	

Technical data

Nickel-plated brass
Thermoplastic elastomers
Viton
-60°C ... 130°C

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	9.50 - 15.90	24.00	24.00	15.00	20.00	62.00	26.40	-
M20	silver	12.50 - 20.90	30.50	30.50	15.00	20.00	65.00	33.60	-
M25	silver	18.20 - 26.20	37.50	37.50	15.00	25.00	70.00	41.30	-
M32	silver	23.70 - 33.90	46.00	46.00	15.00	32.00	73.00	50.60	-
M40	silver	27.90 - 40.40	55.00	55.00	15.00	40.00	73.00	60.50	-
M50	silver	40.40 - 53.10	70.00	70.00	15.00	50.00	75.00	77.00	-
M63	silver	54.60 - 65.90	80.00	80.00	15.00	63.00	78.00	88.00	-

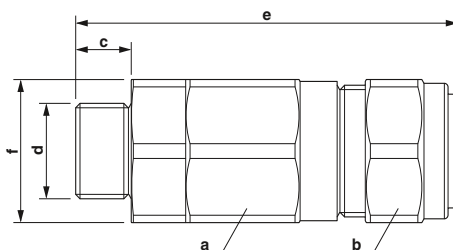
Ordering data

Type	Order No.	Pcs. / Pkt.
G-ESSWU-M20S-S66L-NTES-S	1411088	10
G-ESSWU-M20-M66L-NTES-S	1411090	10
G-ESSWU-M25-M66L-NTES-S	1411092	10
G-ESSWU-M32-L66L-NTES-S	1411094	5
G-ESSWU-M40-L66L-NTES-S	1411097	1
G-ESSWU-M50-L66L-NTES-S	1411100	1
G-ESSWU-M63-L66L-NTES-S	1411102	1

Stainless steel cable glands, metric, Ex protection

The cable glands for armored cables provide flameproof (type "d"), increased safety (type "e"), and restricted breathing (type "nR") protection.

– Degree of protection: IP66/IP67/IP68



Stainless steel cable gland

Notes:
For counter nuts, see page 507

Ex: CIDET EAC Ex NEPSI
SIRA13ATEX1073X / IECEx SIR13.0028X

General data	
Cable gland material	
Seal material	
O-ring material	
Ambient temperature (operation)	

Technical data

Stainless steel 1.4404
Thermoplastic elastomers
Viton
-60°C ... 130°C

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	9.50 - 15.90	24.00	24.00	15.00	20.00	85.00	26.40	-
M20	silver	12.50 - 20.90	30.50	30.50	15.00	20.00	87.00	33.60	-
M25	silver	18.20 - 26.20	37.50	37.50	15.00	25.00	97.00	41.30	-
M32	silver	23.70 - 33.90	46.00	46.00	15.00	32.00	100.00	50.60	-
M40	silver	27.90 - 40.40	55.00	55.00	15.00	40.00	101.00	60.50	-
M50	silver	40.40 - 53.10	70.00	70.00	15.00	50.00	115.00	77.00	-
M63	silver	54.60 - 65.90	80.00	80.00	15.00	63.00	118.00	88.00	-

Ordering data

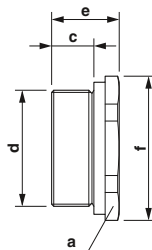
Type	Order No.	Pcs. / Pkt.
G-EDSWU-M20S-S66L-STES-S	1411089	10
G-EDSWU-M20-M66L-STES-S	1411091	10
G-EDSWU-M25-M66L-STES-S	1411093	10
G-EDSWU-M32-L66L-STES-S	1411095	5
G-EDSWU-M40-L66L-STES-S	1411099	1
G-EDSWU-M50-L66L-STES-S	1411101	1
G-EDSWU-M63-L66L-STES-S	1411103	1

Installation and mounting material - CABINET add-on

Ex cable glands

Brass screw plugs, metric, Ex protection

Screw plugs provide IP66 and IP68 protection when installed with an entry thread ring, sealing unused cable entries in flameproof (type "d") and increased safety (type "e") installations.



Brass screw plug

Notes:
For counter nuts, see page 506.

Ex:
SIRA01ATEX1284U / IECEx SIR07.0083X

General data	
Material	
Ambient temperature (operation)	

Technical data

Nickel-plated brass
-60°C ... 200°C

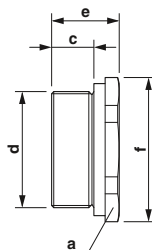
Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	-	24.00	-	15.00	20.00	24.00	26.40	-
M25	silver	-	30.00	-	15.00	25.00	24.00	33.00	-
M32	silver	-	36.00	-	15.00	32.00	24.00	39.60	-
M40	silver	-	46.00	-	15.00	40.00	24.00	50.60	-
M50	silver	-	55.00	-	15.00	50.00	24.00	60.50	-
M63	silver	-	65.00	-	15.00	63.00	24.00	77.00	-

Ordering data

Type	Order No.	Pcs. / Pkt.
A-EXSH-M20-68L-N-S	1411104	20
A-EXSH-M25-68L-N-S	1411107	20
A-EXSH-M32-68L-N-S	1411109	10
A-EXSH-M40-68L-N-S	1411111	5
A-EXSH-M50-68L-N-S	1411113	2
A-EXSH-M63-68L-N-S	1411115	1

Stainless steel screw plugs, metric, Ex protection

Screw plugs provide IP66 and IP68 protection when installed with an entry thread ring, sealing unused cable entries in flameproof (type "d") and increased safety (type "e") installations.



Stainless steel screw plug

Notes:
For counter nuts, see page 507.

Ex:
SIRA01ATEX1284U / IECEx SIR07.0083X

General data	
Material	
Ambient temperature (operation)	

Technical data

Stainless steel 1.4404
-60°C ... 200°C

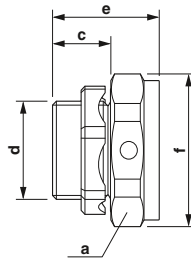
Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	-	24.00	-	15.00	20.00	24.00	26.40	-
M25	silver	-	30.00	-	15.00	25.00	24.00	33.00	-
M32	silver	-	36.00	-	15.00	32.00	24.00	39.60	-
M40	silver	-	46.00	-	15.00	40.00	24.00	50.60	-
M50	silver	-	55.00	-	15.00	50.00	24.00	60.50	-
M63	silver	-	65.00	-	15.00	63.00	24.00	77.00	-

Ordering data

Type	Order No.	Pcs. / Pkt.
A-EXSH-M20-68L-S-S	1411105	20
A-EXSH-M25-68L-S-S	1411108	20
A-EXSH-M32-68L-S-S	1411110	10
A-EXSH-M40-68L-S-S	1411112	5
A-EXSH-M50-68L-S-S	1411114	2
A-EXSH-M63-68L-S-S	1411116	1

Brass pressure compensation, metric, Ex protection

Breather/drain plugs for increased safety (type "e") provide superior ventilation for devices. They are designed to act as a pressure compensation element preventing moisture build-up to IP66.



Brass pressure compensation

Notes:
For counter nuts, see page 506.

Ex: EAC Ex NEPSI
SIRA10ATEX1307U / IECEx SIR10.0149U

General data		
Material		
Ambient temperature (operation)		

Technical data

Nickel-plated brass
-60°C ... 130°C

Thread type	Color	Clamping area [mm]
M20	silver	-
M25	silver	-

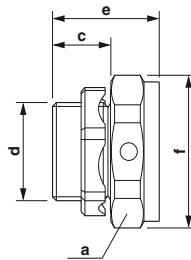
Dimensions [mm]						
a	b	c	d	e	f	g
30.00	-	15.00	20.00	32.00	33.00	-
31.50	-	15.00	25.00	32.00	39.60	-

Ordering data

Type	Order No.	Pcs. / Pkt.
A-EXB-20-66L-N-S	1411117	5
A-EXB-25-66L-N-S	1411120	5

Stainless steel pressure compensation, metric, Ex protection

Breather/drain plugs for increased safety (type "e") provide superior ventilation for devices. They are designed to act as a pressure compensation element preventing moisture build-up to IP66.



Stainless steel pressure compensation

Notes:
For counter nuts, see page 507.

Ex: EAC Ex NEPSI
SIRA10ATEX1307U / IECEx SIR10.0149U

General data		
Material		
Ambient temperature (operation)		

Technical data

Stainless steel 1.4404
-60°C ... 130°C

Thread type	Color	Clamping area [mm]
M20	silver	-
M25	silver	-

Dimensions [mm]						
a	b	c	d	e	f	g
30.00	-	15.00	20.00	32.00	26.40	-
31.50	-	15.00	25.00	32.00	33.00	-

Ordering data

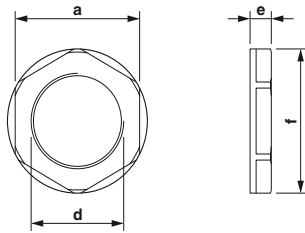
Type	Order No.	Pcs. / Pkt.
A-EXB-20-66L-S-S	1411118	5
A-EXB-25-66L-S-S	1411121	5

Installation and mounting material - CABINET add-on

Ex cable glands

Plastic counter nuts, metric, EN 60423

- Material: polyamide 6
- Color: deep black (RAL 9005)
- Ambient temperature: -20°C ... +80°C



Plastic counter nut

General data

Material
Ambient temperature (operation)

PA 6 GF 30
-20°C ... 80°C

Technical data

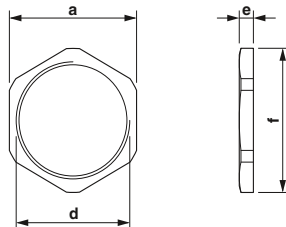
Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	jet black	-	18.00	-	-	12.00	5.00	19.50	-
M16	jet black	-	22.00	-	-	16.00	5.00	24.20	-
M20	jet black	-	26.00	-	-	20.00	6.00	28.60	-
M25	jet black	-	32.00	-	-	25.00	6.00	35.00	-
M32	jet black	-	41.00	-	-	32.00	7.00	46.10	-
M40	jet black	-	50.00	-	-	40.00	7.00	55.30	-
M50	jet black	-	60.00	-	-	50.00	8.00	66.10	-
M63	jet black	-	75.00	-	-	63.00	8.00	82.50	-

Type	Order No.	Pcs. / Pkt.
A-INL-M12-P-BK	1411213	10
A-INL-M16-P-BK	1411214	10
A-INL-M20-P-BK	1411215	5
A-INL-M25-P-BK	1411216	5
A-INL-M32-P-BK	1411217	5
A-INL-M40-P-BK	1411218	5
A-INL-M50-P-BK	1411219	5
A-INL-M63-P-BK	1411220	5

Brass counter nuts, metric, EN 60423

- Material: brass, nickel-plated
- Ambient temperature: -70°C ... +220°C



Brass counter nut

General data

Material
Ambient temperature (operation)

Nickel-plated brass
-70°C ... 220°C

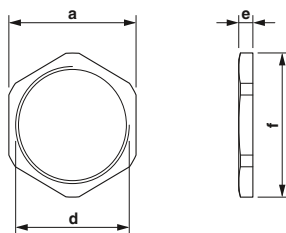
Technical data

Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	-	15.00	-	-	12.00	2.80	16.50	-
M16	silver	-	19.00	-	-	16.00	2.80	21.00	-
M20	silver	-	24.00	-	-	20.00	3.00	27.00	-
M25	silver	-	30.00	-	-	25.00	3.50	33.50	-
M32	silver	-	36.00	-	-	32.00	4.00	40.00	-
M40	silver	-	46.00	-	-	40.00	5.00	50.00	-
M50	silver	-	57.00	-	-	50.00	5.00	65.00	-
M63	silver	-	70.00	-	-	63.00	6.00	75.00	-

Type	Order No.	Pcs. / Pkt.
A-INL-M12-N-S	1411240	100
A-INL-M16-N-S	1411241	100
A-INL-M20-N-S	1411242	100
A-INL-M25-N-S	1411243	100
A-INL-M32-N-S	1411244	100
A-INL-M40-N-S	1411246	50
A-INL-M50-N-S	1411247	25
A-INL-M63-N-S	1411248	25

Stainless steel counter nuts, metric



Stainless steel counter nut

General data

Material
Ambient temperature (operation)

Technical data

Stainless steel 1.4305
-70°C ... 220°C

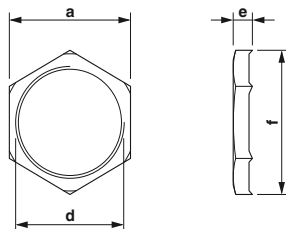
Ordering data

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M20	silver	-	24.00	-	-	20.00	3.00	27.00	-
M25	silver	-	30.00	-	-	25.00	3.50	33.50	-
M32	silver	-	36.00	-	-	32.00	4.00	40.00	-
M40	silver	-	46.00	-	-	40.00	5.00	50.00	-
M50	silver	-	55.00	-	-	50.00	5.00	65.00	-
M63	silver	-	70.00	-	-	63.00	6.00	75.00	-

Type	Order No.	Pcs. / Pkt.
A-INL-M20-S-S	1411249	10
A-INL-M25-S-S	1411250	10
A-INL-M32-S-S	1411251	5
A-INL-M40-S-S	1411252	5
A-INL-M50-S-S	1411253	2
A-INL-M63-S-S	1411254	1

Brass counter nuts, metric, EN 60423, ribbed

- Material: brass, nickel-plated
- Ambient temperature: -70°C ... +220°C
- Version: ribbed



Brass counter nut

Thread type	Color	Clamping area [mm]	Dimensions [mm]						
			a	b	c	d	e	f	g
M12	silver	-	15.00	-	-	12.00	4.70	16.50	-
M16	silver	-	19.00	-	-	16.00	4.70	21.00	-
M20	silver	-	24.00	-	-	20.00	4.70	27.00	-
M25	silver	-	30.00	-	-	25.00	5.20	33.50	-
M32	silver	-	36.00	-	-	32.00	5.70	40.00	-
M40	silver	-	46.00	-	-	40.00	6.50	50.00	-
M50	silver	-	60.00	-	-	50.00	6.50	65.00	-
M63	silver	-	70.00	-	-	63.00	7.00	75.00	-

Ordering data

Type	Order No.	Pcs. / Pkt.
A-INLE-M12-N-S	1411267	100
A-INLE-M16-N-S	1411268	100
A-INLE-M20-N-S	1411269	100
A-INLE-M25-N-S	1411270	50
A-INLE-M32-N-S	1411271	50
A-INLE-M40-N-S	1411272	50
A-INLE-M50-N-S	1411273	10
A-INLE-M63-N-S	1411274	10

Component mounting

DIN rails NS 15, flat design



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated, and thick layer passivated

General data	
Material / coating	
Description	
Color	
DIN rail, unperforated , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m silver	
DIN rail, unperforated , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications ¹⁾ silver	
DIN rail, unperforated , in acc. with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length acc. to customer specifications and provided with mounting holes ²⁾ silver	
DIN rail, perforated , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m silver	
DIN rail, perforated , in accordance with EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications ¹⁾ silver	
DIN rail, perforated , dimensions according to EN 60715 - 15 x 5.5 mm, white passivated, low design, supply length: 2 m white	
DIN rail, perforated , dimensions in acc. with EN 60715 - 15 x 5.5 mm, supply length: 2 m, material: aluminum silver	

Technical data		
Steel / galvanized, passivated with a thick layer		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 UNPERF 2000MM	1401695	5
NS 15 UNPERF/...	1208089	1
NS 15 UNPERF/SO/...	1208092	1



Perforated, zinc plated, and thick layer passivated



Perforated, white passivated



Perforated, aluminum

Technical data
Steel / galvanized, passivated with a thick layer

Technical data
Steel / galvanized, white passivated

Technical data
Aluminum / uncoated

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 PERF 2000MM	1401682	5
NS 15 PERF/...	1208102	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 WH PERF 2000MM	1204096	5

Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 AL PERF 2000MM	1401763	5

Installation and mounting material - CABINET add-on

Component mounting

DIN rails NS 35, flat design



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum; as a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated, and thick layer passivated

General data	
Material / coating	
Steel / galvanized, passivated with a thick layer	
Description	Color
DIN rail, unperforated, in acc. with EN 60715 - 35 x 7.5 mm, galvanized and passivated with a thick layer, low design, supply length: 2 m	silver
DIN rail, unperforated, according to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, supply length: 1 m	silver
DIN rail, unperforated, in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, cut to length according to customer specifications ¹⁾	silver
DIN rail, unperforated, in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, cut to length according to customer specifications and provided with mounting holes ²⁾	silver
DIN rail, unperforated, dimensions according to EN 60715 - 35 x 7.5 mm, white passivated, low design, supply length: 2 m	white
DIN rail, unperforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, galvanized, low design, supply length: 2 m	silver
DIN rail, unperforated, dimensions in acc. with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m, Material: copper	copper-colored

DIN rail end piece for DIN rail NS35/7.5	
Material: copper	

Technical data		
Steel / galvanized, passivated with a thick layer		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 UNPERF 2000MM	0801681	5
NS 35/ 7,5 UNPERF 1000MM	1207649	20
NS 35/ 7,5 UNPERF/...	1208115	1
NS 35/ 7,5 UNPERF/SO/...	1208128	1

Accessories		
NS 35/ 7,5 CAP	1206560	100



Unperforated, white passivated



Unperforated, zinc plated



Unperforated, copper

Technical data

Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 WH UNPERF 2000MM	1204122	5

Accessories

NS 35/ 7,5 CAP	1206560	100
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Technical data

Steel / galvanized

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 ZN UNPERF 2000MM	1206434	5

Accessories

NS 35/ 7,5 CAP	1206560	100
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Technical data

Copper / uncoated

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/ 7,5 CU UNPERF 2000MM	0801762	5

Accessories

NS 35/ 7,5 CAP	1206560	100
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Installation and mounting material - CABINET add-on

Component mounting

DIN rails NS 35, flat design

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.



Unperforated, aluminum



Unperforated, stainless steel

General data		Technical data			Technical data		
		Ordering data			Ordering data		
Material / coating		Aluminum / uncoated			Stainless steel V2A / uncoated		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	silver	NS 35/ 7,5 AL UNPERF 2000MM	0801704	5	NS 35/ 7,5 V2A UNPERF 2000MM	0801377	5
DIN rail, unperforated , dimensions in acc. with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m, Material: aluminum							
DIN rail, unperforated , dimensions in acc. with EN 60715 - 35 x 7.5 mm, low design, supply length: 2 m, Material: high-grade steel V2A							
DIN rail end piece for DIN rail NS35/7.5		Accessories NS 35/ 7,5 CAP 1206560 100			Accessories NS 35/ 7,5 CAP 1206560 100		

NS 35 DIN rails, flat design, perforated

Notes:
1) Please specify the desired length in millimeters when placing your order. See order example.
For PPS ... DIN rail profile cutters, see page 370.



Perforated, zinc plated, and thick layer passivated



Perforated, zinc plated

General data		Technical data			Technical data		
Material / coating		Steel / galvanized, passivated with a thick layer			Steel / galvanized		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
DIN rail, perforated , in acc. with EN 60715 - 35 x 7.5 mm, galvanized and passivated with a thick layer, low design, supply length: 2 m silver		NS 35/ 7,5 PERF 2000MM	0801733	5			
DIN rail, perforated , according to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, supply length: 1 m silver		NS 35/ 7,5 PERF 1000MM	1207651	20			
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, for cabinet width / depth of 0.8 m Length: 755 mm For cabinet width / depth of 1.2 m, supply length: 1155 mm silver		NS 35/ 7,5 PERF 755MM	1207640	10			
		NS 35/ 7,5 PERF 1155MM	1207666	10			
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, cut to length according to customer specifications ¹⁾ silver		NS 35/ 7,5 PERF/...	1208131	1			
DIN rail, perforated , dimensions in acc. with EN 60715 - 35 x 7.5 mm, galvanized, low design, supply length: 2 m silver					NS 35/ 7,5 ZN PERF 2000MM	1206421	5
DIN rail, perforated , in accordance with EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, low design, for cabinet width / depth of 0.8 m Length: 755 mm silver		NS 35/ 7,5 PERF 755MM	1207640	10			
DIN rail end piece		Accessories			Accessories		
for DIN rail NS35/7.5		NS 35/ 7,5 CAP	1206560	100	NS 35/ 7,5 CAP	1206560	100

Installation and mounting material - CABINET add-on

Component mounting

NS 35 DIN rails, tall design

Notes:
For dimensional drawings and ordering examples, see page 519
For PPS ... DIN rail profile cutters, see page 370
1) Please specify the desired length in millimeters when placing your order. See order example.
2) Please specify the desired length and borehole when placing your order. See order example.



Unperforated, zinc plated, and thick layer passivated



Unperforated, white passivated

General data		Technical data			Technical data		
Material / coating		Steel / galvanized, passivated with a thick layer			Steel / galvanized, white passivated		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
DIN rail, unperforated , in acc. with EN 60715 - 35 x 15 mm, galvanized and passivated with a thick layer, tall design, supply length: 2 m		NS 35/15 UNPERF 2000MM	1201714	5			
DIN rail, unperforated , according to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, low design, supply length: 1 m		NS 35/15 UNPERF 1000MM	1207655	20			
DIN rail, unperforated in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications ¹⁾		NS 35/15 UNPERF/...	1208144	1			
DIN rail, unperforated in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications and provided with mounting holes ²⁾		NS 35/15 UNPERF/SO/...	1208157	1			
DIN rail, unperforated , similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, white passivated, tall design, supply length: 2 m					NS 35/15 WH UNPERF 2000MM	1204135	5
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m							
DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tall design, supply length: 2 m, Material: copper							
DIN rail, unperforated in accordance with EN 60715 - 35 x 15 mm, 2.3 mm thick, galvanized and thick layer passivated, tall design, for universal cut, supply length: 2 m							
Accessories		Accessories			Accessories		
for DIN rail NS35/15		NS 35/15 CAP	1206573	100	NS 35/15 CAP	1206573	100



Unperforated, zinc plated



Unperforated, copper



Unperforated, zinc plated, and thick layer passivated, material thickness 2.3 mm

Technical data

Steel / galvanized

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/15 ZN UNPERF 2000MM	1206586	5

Accessories

NS 35/15 CAP	1206573	100
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Technical data

Copper / uncoated

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/15 CU UNPERF 2000MM	1201895	5

Accessories

NS 35/15 CAP	1206573	100
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Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/15-2,3 UNPERF 2000MM	1201798	5

Accessories

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Component mounting

NS 35 DIN rails, tall design, perforated



- The design of the DIN rails complies with European standard EN 60715
- Particular attention has been paid to a high degree of dimensional accuracy and surface tempering
- All DIN rails are also available cut to length

The DIN rails are available with various surface coatings and are suitable for the following applications:

- Zinc plated, for indoor applications
- White passivated, for indoor applications
- Zinc plated and thick layer passivated, for indoor and protected outdoor applications
- Aluminum and copper. As a result of their improved conductivity, these versions can also be used as PEN busbars

Notes:
For dimensional drawings and ordering examples, see page 519.
For PPS ... DIN rail profile cutters, see page 370.
1) Please specify the desired length in millimeters when placing your order. See order example.



Perforated, zinc plated, and thick layer passivated

General data	
Material / coating	
Description	
Color	
DIN rail, perforated , in acc. with EN 60715 - 35 x 15 mm, galvanized and passivated with a thick layer, tall design, supply length: 2 m	silver
DIN rail, perforated , according to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 1 m	silver
DIN rail, perforated , in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, for cabinet width / depth of 0.8 m	silver
Length: 755 mm	silver
For cabinet width / depth of 1.0 m, supply length: 955 mm	silver
For cabinet width / depth of 1.2 m, supply length: 1155 mm	silver
DIN rail, perforated in accordance with EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m, cut to length according to the customer specifications ¹⁾	silver
DIN rail, perforated , according to EN 60715 - 35 x 15 mm, white passivated, tall design, supply length: 2 m	white
DIN rail, perforated similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m	silver

Technical data		
Steel / galvanized, passivated with a thick layer		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 35/15 PERF 2000MM	1201730	5
NS 35/15 PERF 1000MM	1207658	20
NS 35/15 PERF 755MM	1207679	10
NS 35/15 PERF 955MM	1207682	10
NS 35/15 PERF 1155MM	1207695	10
NS 35/15 PERF/...	1208160	1



Perforated, white passivated



Perforated, zinc plated

Technical data

Steel / galvanized, white passivated

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/15 WH PERF 2000MM	0806602	5

Technical data

Steel / galvanized

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/15 ZN PERF 2000MM	1206599	5

Component mounting

NS 32 DIN rails

Notes:

For PPS ... DIN rail profile cutters, see page 370.



NS 32 DIN rail

General data

Material / coating

Description

Color

DIN rail, unperforated, in accordance with EN 60715 - G32, supply length: 2 m, galvanized and thick layer passivated

silver

DIN rail, perforated, in accordance with EN 60715 - G32, galvanized and thick layer passivated, supply length: 2 m

silver

Technical data

Steel / galvanized, passivated with a thick layer

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 32 UNPERF 2000MM	1201015	5
NS 32 PERF 2000MM	1201002	5

NS 35 DIN rails, tall design that supports the use of slide nuts

- The NS 35/15 AL DIN rail has been designed to accommodate GLM ... slide nuts
- The slide nuts even allow components without an additional snap-on foot to be mounted

Notes:

For dimensional drawings and ordering examples, see page 519.



NS 35, 15 mm high DIN rail with slide nut guide

Dimensions

[mm]

General data

Material

Description

Color

DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, supply length: 2 m

silver

DIN rail, unperforated similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, cut to length according to customer specifications

silver

Slide nut, for DIN rail NS 35/15-AL, for fixing devices, **material: Steel**

M4

silver

M5

silver

M6

silver

Technical data

Width	Length	Height
35	2000	15

Aluminum

Ordering data

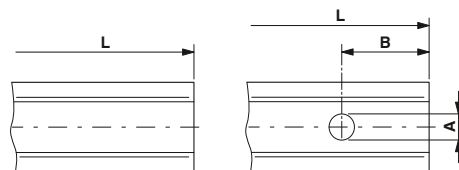
Type	Order No.	Pcs. / Pkt.
NS 35/15 AL UNPERF 2000MM	1201756	5
NS 35/15 AL UNPERF/...	1210213	1
GLM 4	1201769	100
GLM 5	1201772	100
GLM 6	1201785	100

Example configuration for NS 35/15 UNPERF/SO/...:

(minimum order quantity 20 units)

When ordering 20 unperforated NS 35/15 DIN rails with 6 mm \varnothing end holes at both ends (as 20 mm elongated holes, the hole center of which is 50 mm from the end of the rail) with a length of 550 mm, the following information must be given:

Item	Order No.	Length in mm	Dim. A	Dim. B	Dim. C
20		550	6	50	20

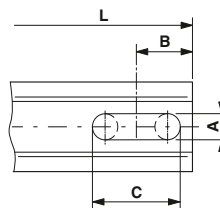


Example configuration for NS 35/7,5 UNPERF/...:

(minimum order quantity 20 units)

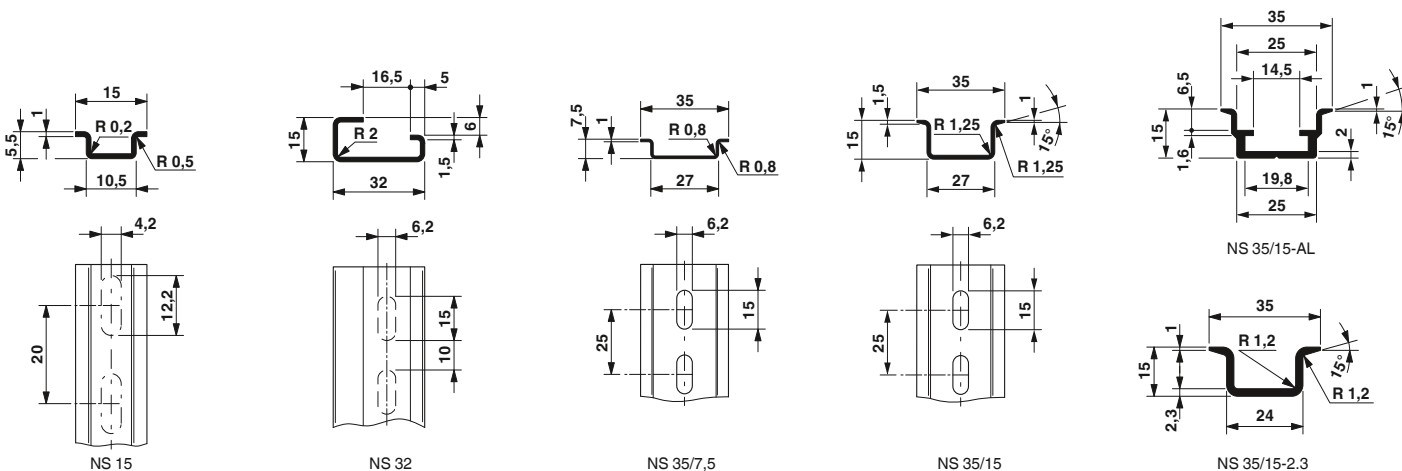
When ordering 20 unperforated NS 35/7,5 DIN rails without end holes with a length of 1750 mm, the following information must be given:

Item	Order No.	Length in mm
20		1750



L = length
 A = hole diameter [mm]
 B = distance between end and hole center [mm]
 C = length of elongated hole [mm]
 The following dimensions are possible:
 Round hole: C = 0
 Elongated hole: C = 10, 15, 20, or 25 mm

Dimensional drawings for DIN rails



Installation and mounting material - CABINET add-on

Component mounting

Snap-on end bracket, for NS 15 and NS 35 DIN rails

- Phoenix Contact has engineered its CLIPFIX end brackets to maintain a secure grip on the various DIN rail systems
- Design width of just 5.2 mm
- Parking facility for bridges and connectors
- Large area for marking



End bracket for NS 15 DIN rail



End bracket for NS 35 DIN rail

Dimensions	Technical data			Technical data			
	Width	Length	Height	Width	Length	Height	
[mm]	5.2	22	22.6	5.15	48.5	35	
General data							
Material	PA			PA			
Inflammability class according to UL 94	V2			V2			
Ordering data							
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
End clamp , for snapping onto NS 15, 5.2 mm wide, marking with ZB 5 and ZBF 5, KLM, parking facilities for bridges and test accessories	gray	CLIPFIX 15	3022263	50	CLIPFIX 35-5	3022276	50
End bracket , for snapping onto NS 35, 5.15 mm wide, can be marked with ZB 5 and UCT-EM (30X5), parking option for bridges and test plugs	gray				CLIPFIX 35	3022218	50
End clamp , to snap on NS 35, 9.5 mm wide, can be marked with ZB 6, ZB 8/27, KLM...	gray						

Screw-on end bracket, for NS 35 and NS 32 DIN rails

- With universal foot for NS 35 and NS 32 DIN rails
- High and low designs
- Large area for marking



For NS 35 and NS 32 DIN rails



For multi-level terminal blocks on NS 35 and NS 32 DIN rails

Dimensions	Technical data			Technical data			
	Width	Length	Height	Width	Length	Height	
[mm]	9.5	50.5	35.3	10	55.5	50	
General data							
Material	PA			PA			
Tightening torque	[Nm] 0.4 - 0.5			0.4 - 0.5			
Inflammability class according to UL 94	V2			V2			
Ordering data							
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
End clamp , to screw on, for NS 35 and NS 32, can be marked with ZB 6, KLM, KLM-A and UBE	gray	E/UK	1201442	50	E/UK 1	1201413	50
Universal end bracket , to screw on, for NS 35 and NS 32, for supporting the ends of double level and three level terminal blocks, can be marked with ZB 10	gray						

Screw-on end bracket, for NS 15 DIN rail

The E/MBK end bracket has been specially designed for the MBK miniature IEC terminal blocks.

- Can be screwed onto NS 15 DIN rails
- Can be mounted directly on the mounting plate as an MBK terminal block base
- Large area for marking



For miniature IEC terminal blocks on NS 15 DIN rail



For NS 15 DIN rail

		Technical data			Technical data		
Dimensions		Width	Length	Height	Width	Length	Height
	[mm]	6.2	22	11.4	6.1	21.2	18
General data							
Material		PA			PA		
Tightening torque	[Nm]	0.4 - 0.5			0.4 - 0.5		
Inflammability class according to UL 94		V2			V2		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
End clamp , to snap on NS 15, for slide-on miniature terminal blocks, can be fastened with a screw, can be marked with KLM 1	gray	E/MBK	1401637	100			
End clamp , to screw on NS 15, 6.1 mm wide, can be fastened with a screw, can be marked with KLM 1	gray				E/MK 1	1421659	100

Screw-on end bracket, for NS 35 DIN rail

- The E/AL-NS 35 provides optimum support for large terminals and devices
- Large area for marking



For NS 35 DIN rail



For terminal blocks from 50 mm² on NS 35 DIN rails

		Technical data			Technical data		
Dimensions		Width	Length	Height	Width	Length	Height
	[mm]	9.5	48.6	32.8	10	59	44
General data							
Material		PA			Aluminum		
Tightening torque	[Nm]	0.4 - 0.5			0.4 - 0.5		
Inflammability class according to UL 94		V2			-		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
End clamp , to screw on NS 35, can be equipped with terminal strip marker KLM-A or ZB 8	gray	E/NS 35 N	0800886	50			
End bracket , aluminum, for screwing on, for end support of 50 - 300 mm ² terminal blocks, can be marked with ZB 10, for mounting on NS 35...	silver				E/AL-NS 35	1201662	10

Installation and mounting material - CABINET add-on

Component mounting

Marking for terminal strips

- The KLM has been specially developed for the CLIPFIX end brackets
- The precise engagement mechanism allows infinite adjustment of the marking area height
- The KLM 3-L is suitable for multi-level terminal blocks and can be cut at two defined points



For CLIPFIX end brackets, can be marked with snap-on label

Dimensions	[mm]
General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Halogen-free
Description	Color
Terminal strip marker , adjustable height, for end clamp CLIPFIX ..., can be marked with SS-ZB	gray
Lettering field size: 20 x 8 mm	
Terminal strip marker , adjustable height, for end clamp CLIPFIX ..., can be marked with EML (20x8) label or with B-STIFT or X-PEN	gray
Can be cut to length	gray

Technical data		
Width	Length	Height
12.5	22	42

PA
V2
-40 ... 100
Halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
KLM 2	0807575	100



For CLIPFIX end brackets, can be marked with label

Technical data		
Width	Length	Height
10	22	27

PA
V2
-40 ... 100
Halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
KLM 3	0811969	100
KLM 3-L	0814788	100

Marking for terminal strips



For E/MK and E/MBK end brackets

General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen
Description	Color
Terminal strip markers , for E/MK, E/MK 1 and E/MBK end bracket, lettering field: 24 x 4 mm	transparent
Terminal strip markers , for E/UK or CLIPFIX 35 end brackets, lettering field: 25 x 6 mm	transparent
Insert strips for thermal transfer printers , 5000 labels per roll	
Lettering field size: 24 x 4 mm, 5000 labels p. roll	white
Lettering field size: 25 x 6 mm, 5000 labels per roll	white

Technical data		
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ABS
HB
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KLM 1	1004319	100

Accessories

Type	Order No.	Pcs. / Pkt.
EMT (24X4)R	0816265	1



For E/UK and CLIPFIX 35 end brackets

Technical data		
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ABS
HB
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KLM	1004306	100

Accessories

Type	Order No.	Pcs. / Pkt.
EMT (25X6)R	0817264	1

Marking for terminal strips

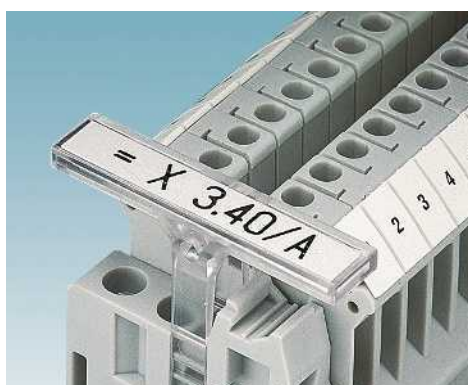


For E/UK, E/NS 35 N, and CLIPFIX 35 end brackets



For end bracket and DIN rail mounting

General data		Technical data			Technical data		
Material		ABS		PA			
Inflammability class according to UL 94		HB		V2			
Temperature range	[°C]	-40 ... 80		-40 ... 100			
Components		Free from silicone and halogen		Free from silicone and halogen			
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Terminal strip markers , for strip marking, adjustable height, for use with end clamps E/UK, E/NS 35 N or CLIPFIX 35, lettering field: 44 x 7 mm	transparent	KLM-A	1004348	100	UBE	0800310	10
Terminal strip marker carriers , for marking terminal groups, for end bracket E/UK, lettering field: 40 x 17 mm Hood material: PE	gray				UBE/D	0800307	10
Terminal strip marker carrier , for marking terminal block groups, for assembly on NS 32... or NS 35... DIN rail, lettering field size: 40 x 17 mm Hood material: PE	gray						
Accessories		Accessories			Accessories		
Insert strip for thermal transfer printer , for terminal strip marker UBE/D or UBE Lettering field size: 40 x 17 mm, 2300 labels per roll	white				EMT (40X17)R	0817293	1
Insert strip for laser printer , perforated, for terminal strip marker KLM-A Lettering field size: 44 x 7 mm Lettering field size: 40 x 17 mm, 1 sheet = 56 labels	white white	ESL 44X7	0808244	10	ESL 40X17	0808095	10



Installation and mounting material - CABINET add-on

Component mounting

Angled brackets for fixing DIN rails

- The BG/S brackets can be used to fix DIN rails at a distance from the mounting surface
- 30° tilt angle



Angled bracket, low



Angled bracket, high

Dimensions	
	[mm]
General data	
Material	

Technical data		
Width	Length	Height
19.7	87	35.4
Steel		

Technical data		
Width	Length	Height
20	84	46
Steel		

Description	Color
Angled bracket , for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	
	silver
Angled brackets , with DIN rail limit stop, for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/S	1201086	10
BG/SA	1201604	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/SH	1201099	10
BG/SHA	1201594	10

Flat brackets for fixing DIN rails

- The BG/F brackets can be used to fix DIN rails at a distance from the mounting surface



Flat brackets with lugs



Flat brackets without lugs

Dimensions	
	[mm]
General data	
Material	

Technical data		
Width	Length	Height
20	84	12
Steel		

Technical data		
Width	Length	Height
20	37	15
Steel		

Description	Color
Flat bracket , for fixing DIN rails 12 mm above the base, with M6 screw, galvanized and thick layer passivated	
	silver
Flat bracket , is screwed with DIN rails 15 mm above the base, fixing hole: 6.5 mm Ø, galvanized and thick layer passivated	
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/F	1201060	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
BG/F 1	1201112	10

Universal adapter

- The universal adapters are used to secure and hold electrical or electronic switching devices
- They allow fully insulated mounting of components or DIN rails



For NS 35 and NS 32 DIN rails

Dimensions		Technical data		
		Width	Length	Height
[mm]		10	42.6	19
General data		Ordering data		
Material		PA		
Inflammability class according to UL 94		V2		
Description	Color	Type	Order No.	Pcs. / Pkt.
Universal rail adapter , for NS 35... or NS 32... DIN rail, for accommodation of switching devices, 10 mm wide				
For M3 screws	gray	USA 10	1201578	10
For M5 screws	gray	USA 10/4,6	1202713	10

Mounting accessories

- The support bracket can be used for totally insulated DIN rail support
- The NS 35/... CAP end caps can be attached to the ends of NS 35/7,5 and NS 35/15 DIN rails



Support bracket, insulated

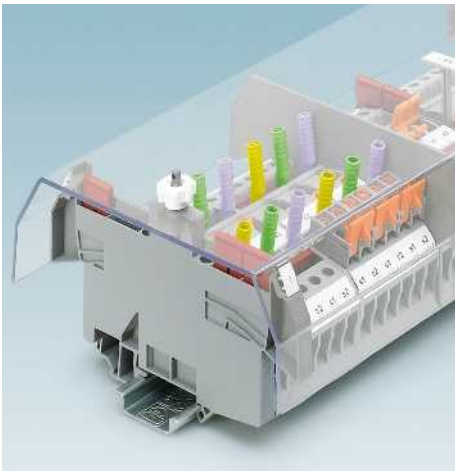


Protective caps for DIN rails

Dimensions		Technical data			Technical data		
		Width	Length	Height	Width	Length	Height
[mm]		38	35	21	7	37.5	9
General data		Ordering data			Ordering data		
Material		PA			PP		
Inflammability class according to UL 94		V2			HB		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Support bracket , for fixing DIN rails 21 mm above the mounting surface, with M6 screw, countersunk fixing hole 6.1 mm Ø, can also be used for protective insulation of terminal strips							
DIN rail end piece	gray	AB/NS	1201141	10			
for DIN rail NS35/7.5	gray				NS 35/ 7,5 CAP	1206560	100
for DIN rail NS35/15	gray				NS 35/15 CAP	1206573	100

Component mounting

Cover profiles



- Cover profiles provide protection against unauthorized use of terminal strips
- This profile has been specially adapted to the contour of the measuring transducer disconnect terminal blocks
- The cover can be securely snapped onto the corresponding APH-ME end brackets and sealed as an option
- The AH-ME cover, which is enclosed on all sides, is snapped onto the end brackets and can be optionally sealed



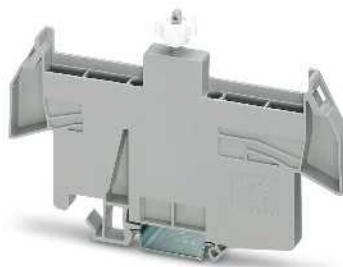
Cover profile and hood, sealable

General data	
Material	PVC
Temperature range	-15 ... 65 [°C]
Description	Color
Cover profile, supply length 1 m	transparent
Cover profile, please specify the desired length in cm	transparent
Covering hood, for the contact and dust-protected encapsulation of the components	transparent

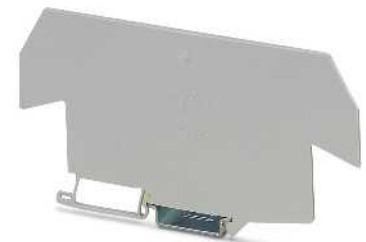
Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
AP-ME METER	3034361	10
AP-ME CM	3034345	1
AH-ME	3240265	5

Holder for AP-ME cover profiles

- The APH-ME end bracket is used in conjunction with the AP-ME cover
- It provides facilities for retaining FBS ...-8 plug-in bridges and is optionally sealable
- The APT-ME holder serves as a partition plate or intermediate support in the case of long terminal strips



Cover profile end bracket, sealable



Cover profile holder

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115 [°C]

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
APH-ME	3034374	10

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
APT-ME	3034358	10

Description	Color
End bracket, for AP-ME cover profile	gray
Holder, for AP-ME cover profile	gray

Cover profiles

- Cover profiles provide protection against unauthorized use of terminal strips
- Large-area marking possible with AP-ES insert strips



Cover profile mounting on a DIN rail



Cover profile for mounting on end bracket

Notes:

1) When ordering please specify the desired length in cm. Accuracy 1 mm.

General data		Technical data			Technical data		
Material		PVC		Polycarbonate PC			
Inflammability class according to UL 94		V2		V2			
Temperature range	[°C]	-15 ... 65		-40 ... 115			
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cover profile , for terminal strips, can be marked with insert strips AP-ES, a cover profile carrier should be placed at the ends and at intervals of approx. 40 cm, maximum supply length: 1 m ¹⁾							
Can be snapped onto cover profile carrier AP 2-TU	transparent	AP 2 CM	5022889	1			
Can be snapped onto AP 3-TU or AP 3-TNS 35	transparent	AP 3 CM	5022876	1			
Cover profile carrier , for mounting on NS 32 or NS 35/7.5 DIN rail, for fixing the cover profile AP, 2 mm thick, material: PA							
	gray	AP 2-TU	5022630	50			
	gray	AP 3-TU	5022656	50			
Sealable cover profile , for mounting on NS 35 DIN rail, for fixing the cover profile AP 3, with plastic knurled nut M5, space requirement: 13 mm							
	gray	AP 3-TNS 35	5022672	10			
U-shaped cover , Inner dimensions: 100 x 38 mm, 2 mm thick, maximum supply length: 2.05 m, also required: 2 end brackets E/UK and 2 cover holders VAH, made acc. to length specifications ¹⁾							
	transparent	A/U CM	5021110	1			
Adjustable cover holder , for mounting covers (up to 3 mm thick), additional requirements: One end bracket E/UK or CLIPFIX 35, material PA							
	gray	VAH	1201468	10			
Insert strips		Accessories			Accessories		
for group marking, for sliding into the cover profile AP 2 and AP 3, cardboard, lettering field: 35 x 500 mm							
	white	AP-ES	5022685	10			

Component mounting

Cover profiles for UK terminal blocks



- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be marked



Single cover for UK terminal blocks

General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Technical data		

Description	Color
Single cover, for covering the UK 2,5 neutral terminal, snap fit	transparent
Single cover, for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS,UK 4-LOER terminals, snap fit	transparent
Single cover, for covering the UK 16 neutral terminal, snap fit	transparent
Single cover, for covering the UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS,UK 4-LOER terminals, snap fit, black print: Lightning flash	transparent
Single cover, for covering the UK 35, UIK 35 terminal, cannot be marked, snap fit	yellow
	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
EA 4	0805360	50
EA 5	1024014	100
EA 7	1024250	100
EA 5-WS	1024085	100
EA 11	1024263	50

Cover profiles

- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be marked



Cover profile, hinged for DIN rail mounting

General data		Technical data		
Material		Polycarbonate PC		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 115		
Components		Free from silicone and halogen		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
Holding profile , is snapped into the cover holder APK-TU, with groove for Zack marker strip ZB 5 up to ZB 10 , length: 2 m				
	transparent	APK 1	5022795	10
Holding profile , is snapped into the cover holder APK-TU, with groove for Zack marker strip ZB 5 up to ZB 10 , length: 2 m				
	gray	APK-HP 2 METER	5022818	2
Cover profile holder , 10 mm width, for mounting on NS 32 or NS 35/7.5, for fixing the holding profile APK-HP, can be marked with Zack marker strip ZB 10 , Material: PA				
	gray	APK-TU	5022805	10

Busbars

Neutral busbar



3 x 10 mm



6 x 6 mm

Dimensions	[mm]
General data	
Material	Copper

Description	Color
PEN conductor busbar , 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver
PEN conductor busbar , in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver

Technical data		
Width	Length	Height
10	1000	3
Material: Copper		

Ordering data		
Type	Order No.	Pcs. / Pkt.
NLS-CU 3/10 SN 1000MM	0402174	10

Technical data		
Width	Length	Height
6	1000	6
Material: Copper		

Ordering data		
Type	Order No.	Pcs. / Pkt.
NLS-CU 6/ 6 SN 1000MM	0402161	10

Supports for neutral busbars

There is a choice of three support frames available as support for busbars:

- The AB/SS for one rail
- The AB 2/SS for offset arrangement of neutral and (PE) busbars
- The lower ABN 2/SS

Notes:
For dimensional drawings, see phoenixcontact.net/products



Support bracket for shield conn. terminal blocks SK



Support bracket, multi-level, insulated

Dimensions	[mm]
General data	
Material	PA
Inflammability class according to UL 94	V0

Description	Color
Support bracket , insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	gray
Double support bracket , insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm	gray
Height 48 mm	gray
Height 36.8 mm	gray
Triple support bracket , made from isolation material	gray

Technical data		
Width	Length	Height
19.4	23.4	21.7
Material: PA		
Inflammability class: V0		

Ordering data		
Type	Order No.	Pcs. / Pkt.
AB/SS	0404428	10

Technical data		
Width	Length	Height
10	42	48
Material: PA		
Inflammability class: V0		

Ordering data		
Type	Order No.	Pcs. / Pkt.
AB2/SS	0404431	10
ABN 2/SS	0404460	10
AB3/SS	0800086	10

Power terminals



10 (16) mm², 76 A, power terminal



35 (35) mm², 125 A, power terminal

Dimensions	[mm]
Max. electrical data	
Rated data	
Nominal current / cross section	[A] / [mm ²]
Connection capacity	
1 conductor	[mm ²]
2 conductors (of the same type)	[mm ²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]

Technical data				
Width	Length	Height		
8	40	36		
I_{max} [A]	max. Ø [mm²]		AWG (UL)	
76	0.5 - 16		-	
IEC	UL	CSA	IEC/ EN 60079-7	
57 / 10	-	-	-	
Connection capacity	solid	stranded	ferrule	
	without/with plastic sleeve			
1 conductor	0.5 - 16	0.5 - 10	0.5 - 16	0.5 - 10
2 conductors (of the same type)	0.5 - 10	0.5 - 10	0.5 - 10	-
General data				
Stripping length	14			
Screw thread	M5			
Tightening torque	2.5 - 3			

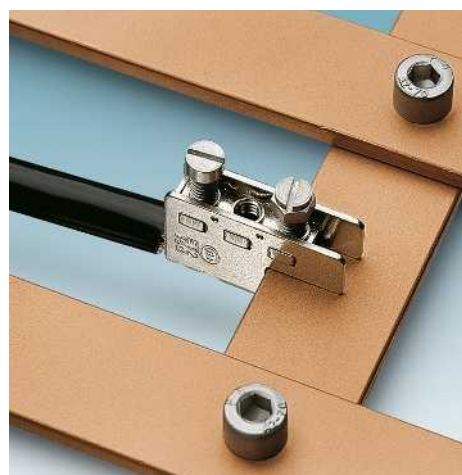
Description	Color
Power terminal, copper, nickel-plated	aluminum

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
EK 116		0401010	10

Technical data				
Width	Length	Height		
12	40	37		
I_{max} [A]	max. Ø [mm²]		AWG (UL)	
125	0.75 - 35		-	
IEC	UL	CSA	IEC/ EN 60079-7	
125 / 35	-	-	95 / 25	
Connection capacity	solid	stranded	ferrule	
	without/with plastic sleeve			
0.75 - 35	0.75 - 35	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	
General data				
Stripping length	14			
Screw thread	M6			
Tightening torque	3.2 - 3.7			

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
EK 135		0401023	10

Branch Terminals



- A branch of flat copper busbars often has to be produced in switch systems
- This can be done easily with the branch terminal block because the terminal block can be attached and firmly clamped anywhere on a copper rail (up to max. 5 mm thick) later on

Dimensions	[mm]
Max. electrical data	
Rated data	
Nominal current / cross section	[A] / [mm ²]
Connection capacity	
1 conductor	[mm ²]
2 conductors (of the same type)	[mm ²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]

Description	Color
Branch terminal block, for connection to copper bars up to 5 mm thick	aluminum



35 (35) mm², 125 A, branch terminal

Technical data				
Width	Length	Height		
12	40	36		
I_{max} [A]	max. Ø [mm²]		AWG (UL)	
125	0.75 - 35		-	
IEC	UL	CSA	IEC/ EN 60079-7	
125 / 35	-	-	-	
Connection capacity	solid	stranded	ferrule	
	without/with plastic sleeve			
0.75 - 35	0.75 - 35	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	
General data				
Stripping length	15			
Screw thread	M6			
Tightening torque	3.2 - 3.7			

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
AZK 35		0702997	10

Busbars

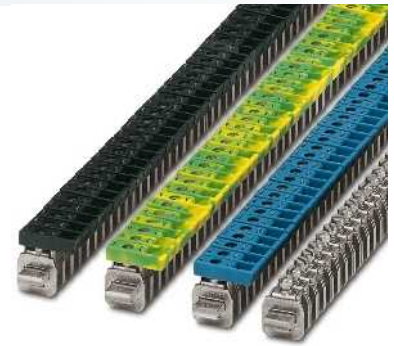
L/N/PE connection terminal blocks



– In electrical systems subject to the setup requirements of DIN VDE 0100 or IEC 60204-1 / EN 60204-1 / VDE 0113-1, N, PE or phase conductor L are often connected to central busbars. This requires the conductor and/or terminal block to be clearly marked for the corresponding circuit.

The connection terminal blocks satisfy these requirements in several ways:

- Through individual marking of each terminal block
- By their blue, green-yellow or black colored housings
- Large marking possible with ZB, UC-TM, UCT-TM



4 (6) mm², 41 A, connection terminal blocks

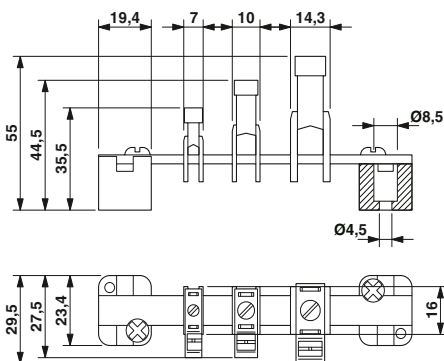


Dimensions	
	[mm]
Max. electrical data	
I_{max} [A]	41
Rated data	
Rated voltage [V]	300
Nominal current / cross section [A] / [mm ²]	41 / 4
Rated cross section [mm ²]	4
Cross section range AWG	20 - 10
Connection capacity	
1 conductor [mm ²]	0.5 - 6
2 conductors (of the same type) [mm ²]	0.5 - 2.5
2 stranded conductors with a TWIN ferrule [mm ²]	-
General data	
Stripping length [mm]	16
Screw thread	M4
Tightening torque [Nm]	1.5 - 1.8
Insulating material	PA
Inflammability class according to UL 94	V2

Technical data				
Width	Length	Height		
7	23.7	23.6		
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG (UL)	
41	300	0.5 - 6	22-12	
IEC	UL	CSA	IEC/EN 60079-7	
300	300	-	-	
41 / 4	20 / -	-	-	
4	-	-	-	
20 - 10	22-12	-	-	
Connection capacity		ferrule		
solid	stranded	without/with plastic sleeve		
0.5 - 6	0.5 - 4	0.5 - 6	0.5 - 6	
0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	-	
-	-	-	0.5 - 2.5	

Description	Color
Connection terminal block , steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 6 mm ² solid, 7 mm wide	green-yellow
Up to 6 mm ² solid, 7 mm wide	blue
Without insulating cap	silver
Connection terminal block , steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 16 mm ² solid, 10 mm wide	green-yellow
Up to 16 mm ² solid, 10 mm wide	blue
Without insulating cap	silver
Connection terminal block , steel, pushed onto NLS neutral busbar, can be marked with ZB ...	black
Up to 35 mm ² solid, 14.3 mm wide	green-yellow
Up to 35 mm ² solid, 14.3 mm wide	blue
Without insulating cap	silver

Ordering data			
Type	I_{max}	Order No.	Pcs. / Pkt.
AKG 4 BK		0421032	50
AKG 4 GNYE		0421029	50
AKG 4 BU		0421016	50
AK 4		0404017	50





16 (16) mm², 76 A, connection terminal blocks



35 (35) mm², 125 A, connection terminal blocks



Technical data

Width	Length	Height	
9.8	23.7	29	
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG (UL)
76	300	1.5 - 16	18-6
IEC	UL	CSA	IEC/ EN 60079-7
300	300	-	-
76 / 16	50 / -	65 / -	-
16	-	-	-
16 - 6	18-6	18-6	-
solid	stranded	ferrule without/with plastic sleeve	
1.5 - 16	1.5 - 16	1.5 - 16	1.5 - 16
1.5 - 6	1.5 - 6	1.5 - 6	-
-	-	-	1.5 - 10

16
M5
2.5 - 3
PA
V2

Technical data

Width	Length	Height	
14.3	27	39	
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG (UL)
125	300	2.5 - 35	18-2
IEC / EN	UL	CSA	IEC/ EN 60079-7
300	300	-	-
125 / 35	115 / -	135 / -	-
35	-	-	-
14 - 2	18-2	18-2	-
solid	stranded	ferrule without/with plastic sleeve	
2.5 - 35	2.5 - 35	2.5 - 35	2.5 - 35
1.5 - 16	1.5 - 16	1.5 - 16	-
-	-	-	1.5 - 10

16
M6
3.2 - 3.7
PA
V2

Ordering data

Type	I_{max}	Order No.	Pcs. / Pkt.
AKG 16 BK		0423030	50
AKG 16 GNYE		0423027	50
AKG 16 BU		0423014	50
AK 16		0404033	50

Ordering data

Type	I_{max}	Order No.	Pcs. / Pkt.
AKG 35 BK		0424039	50
AKG 35 GNYE		0424026	50
AKG 35 BU		0424013	50
AK 35		0404046	50

Connection terminal blocks and sockets

Europe connectors



- The Europe connectors for conductors with a cross section of up to 16 mm² feature wire protection
- Particularly suitable for finely stranded conductors, including those without ferrules
- Insulating housing made from halogen-free polyamide
- High-quality metal parts with corrosion-resistant surfaces
- Secure fixing in housing

Notes:
For more variants, see phoenixcontact.net/products.



2.5 (2.5) mm², 24 A, 12-pos.



Dimensions	
	[mm]
Max. electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm ²]
Rated cross section	[mm ²]
Cross section range	AWG
Connection capacity	
1 conductor	[mm ²]
2 conductors (of the same type)	[mm ²]
2 stranded conductors with a TWIN ferrule	[mm ²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Insulating material	
Inflammability class according to UL 94	

Technical data				
Width	Length	Height		
16.2	93.6	13.4		
I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	AWG (UL)	
24	450	0.5 - 2.5	22-12	
IEC	UL	CSA	IEC/EN 60079-7	
450	300	-	-	
24 / 2.5	20 / -	-	-	
2.5	-	-	-	
20 - 14	22-12	-	-	
Connection capacity		ferrule		
	solid	stranded	without/with plastic sleeve	
0.5 - 2.5	0.5 - 2.5	0.5 - 1.5	0.5 - 1	
0.5 - 0.75	0.5 - 0.75	-	-	
-	-	-	0.5	

Description	Color
Europe connector, 12-pos., with wire protection	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 2,5 P TR	3240167	10



4 (4) mm², 32 A, 12-pos.



6 (6) mm², 41 A, 12-pos.



16 (16) mm², 76 A, 12-pos.



Technical data			
Width	Length	Height	
18.6	117	15	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)
32	450	0.75 - 4	20-10
IEC	UL	CSA	IEC/ EN 60079-7
450	300	-	-
32 / 4	30 / -	-	-
4	-	-	-
18 - 12	20-10	-	-
solid	stranded	ferrule without/with plastic sleeve	
0.75 - 4	0.75 - 4	0.5 - 2.5	0.5 - 2.5
0.75 - 1.5	0.75 - 1	0.5 - 1	-
-	-	-	0.5 - 1
6	M3	0.5 - 0.6	
PA			
V2			

Technical data			
Width	Length	Height	
22.2	132.7	17.3	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)
41	450	1 - 6	14-8
IEC	UL	CSA	IEC/ EN 60079-7
450	300	-	-
41 / 6	50 / -	-	-
6	-	-	-
16 - 10	14-8	-	-
solid	stranded	ferrule without/with plastic sleeve	
1 - 6	1 - 6	0.75 - 4	0.75 - 4
0.75 - 2.5	0.75 - 1.5	0.75 - 1.5	-
-	-	-	0.5 - 1
7	M3,5	0.8 - 1	
PA			
V2			

Technical data			
Width	Length	Height	
25.2	173.9	20.8	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)
76	450	6 - 16	10-6
IEC	UL	CSA	IEC/ EN 60079-7
450	300	-	-
76 / 16	55 / -	-	-
16	-	-	-
10 - 6	10-6	-	-
solid	stranded	ferrule without/with plastic sleeve	
6 - 16	6 - 16	1.5 - 10	1.5 - 10
1.5 - 4	2.5 - 4	1.5 - 2.5	-
-	-	-	0.75 - 2.5
8	M4	1.2 - 1.5	
PA			
V2			

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 4 P TR	3240171	10

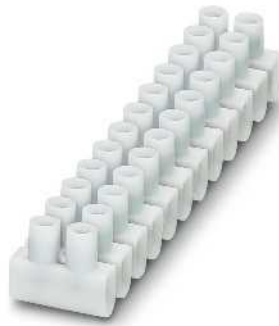
Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 6 P TR	3240175	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 16 P TR	3240182	10

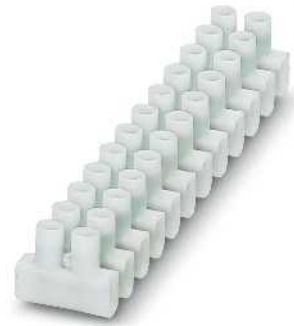
Connection terminal blocks and sockets

Europe connectors

- These Europe connectors are suitable for solid and stranded conductors with a max. cr. sect. of 25 mm²
- The prismatic clamping part facilitates conductor entry and secure contact can be established even in the case of conductors without ferrules
- The polypropylene insulating housing allows individual positions to be disconnected simply by twisting and without the need for tools
- The high-quality metal parts, which feature corrosion-resistant surfaces, are fixed securely in the housing



4 (4) mm², 32 A, 12-pos.



6 (6) mm², 41 A, 12-pos.

ERC

Technical data

Dimensions		Width	Length	Height					
		16.6	94.9	13					
[mm]									
Max. electrical data		I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	AWG (UL)				
		32	450	0.5 - 4	-				
Rated data		IEC	UL	CSA	IEC/ EN 60079-7				
Rated voltage	[V]	450	-	-	-				
Nominal current / cross section	[A] / [mm ²]	32 / 4	-	-	-				
Rated cross section	[mm ²]	4	-	-	-				
Cross section range	AWG	20 - 12	-	-	-				
Connection capacity		solid		stranded		ferrule			
						without/with plastic sleeve			
1 conductor	[mm ²]	0.5 - 4	0.5 - 4	0.75 - 2.5	0.75 - 2.5				
2 conductors (of the same type)	[mm ²]	0.5 - 1	- 1	-	-				
2 stranded conductors with a TWIN ferrule	[mm ²]	-	-	-	0.5				
General data									
Stripping length	[mm]	5							
Screw thread		M2,6							
Tightening torque	[Nm]	0.4 - 0.5							
Insulating material		PP							

ERC

Technical data

Dimensions		Width	Length	Height					
		18.9	116.5	14.9					
[mm]									
Max. electrical data		I _{max.} [A]	U _{max.} [V]	max. Ø [mm ²]	AWG (UL)				
		41	450	0.75 - 6	-				
Rated data		IEC	UL	CSA	IEC/ EN 60079-7				
Rated voltage	[V]	450	-	-	-				
Nominal current / cross section	[A] / [mm ²]	41 / 6	-	-	-				
Rated cross section	[mm ²]	6	-	-	-				
Cross section range	AWG	18 - 10	-	-	-				
Connection capacity		solid		stranded		ferrule			
						without/with plastic sleeve			
0.75 - 6	[mm ²]	0.75 - 6	0.75 - 6	0.75 - 4	0.75 - 2.5				
0.75 - 1.5	[mm ²]	0.75 - 1.5	0.75 - 1.5	0.5 - 1	-				
-	[mm ²]	-	-	-	0.5 - 1				
General data									
Stripping length	[mm]	6							
Screw thread		M3							
Tightening torque	[Nm]	0.5 - 0.6							
Insulating material		PP							

Ordering data

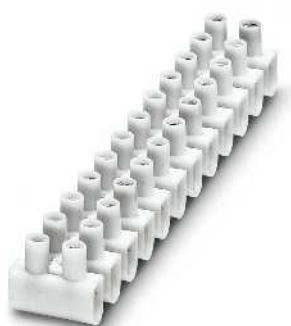
Description	Color	Type	Order No.	Pcs. / Pkt.
		Europe connector, 12-pos.	white	EC 4
	black	EC 4 BK	3240169	10

Ordering data

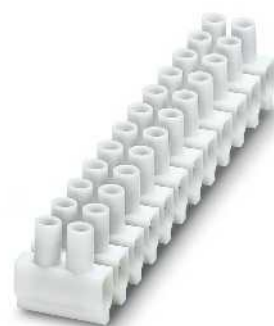
Description	Color	Type	Order No.	Pcs. / Pkt.
		Europe connector, 12-pos.	white	EC 6
	black	EC 6 BK	3240173	10



10 (10) mm², 57 A, 12-pos.



16 (16) mm², 76 A, 12-pos.



25 (25) mm², 101 A, 12-pos.

ERC

ERC

ERC

Technical data			
Width	Length	Height	
17.3	133.8	23.4	
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG (UL)
57	450	1 - 10	-
IEC	UL	CSA	IEC/EN 60079-7
450	-	-	-
57 / 10	-	-	-
10	-	-	-
16 - 8	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
1 - 10	1 - 10	1.5 - 6	1.5 - 4
1 - 2.5	1.5 - 2.5	0.75 - 1.5	-
-	-	-	0.5 - 1.5
7			
M3,5			
0.8 - 1			
PP			

Technical data			
Width	Length	Height	
20.7	174.5	25	
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG (UL)
76	450	1.5 - 16	-
IEC	UL	CSA	IEC/EN 60079-7
450	-	-	-
76 / 16	-	-	-
16	-	-	-
14 - 6	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
1.5 - 16	2.5 - 16	2.5 - 10	2.5 - 10
2.5 - 4	2.5 - 4	1.5 - 2.5	-
-	-	-	1 - 4
8			
M4			
1.2 - 1.5			
PP			

Technical data			
Width	Length	Height	
30	187.3	28	
I_{max} [A]	U_{max} [V]	max. Ø [mm ²]	AWG (UL)
101	750	10 - 25	-
IEC	UL	CSA	IEC/EN 60079-7
750	-	-	-
101 / 25	-	-	-
25	-	-	-
8 - 4	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
10 - 25	10 - 25	4 - 16	4 - 10
4 - 6	4 - 6	2.5 - 4	-
-	-	-	1.5 - 6
9			
M5			
2 - 3			
PP			

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 10	3240176	10
EC 10 BK	3240177	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 16	3240179	10
EC 16 BK	3240180	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 25	3240183	10
EC 25 BK	3240184	10

Junction box connectors



- Thanks to their push-in connection method, the three junction box connectors available from Phoenix Contact enable wiring to be installed under the tightest of conditions without the need for tools
- Solid single-strand conductors with a cross section range of 0.5 mm² to 2.5 mm² can be connected
- Solid multi-strand conductors (7 litz wires) with a cross section range of 1.5 mm² to 2.5 mm² can be safely connected
- Different cross sections can be wired together in a junction box connector
- The transparent housing makes it easier to carry out a visual inspection of the terminal points, thereby increasing the safety of the wiring
- Integrated test openings enable the use of test devices once wiring has been completed



2.5 (2.5) mm², 24 A, 3-pos.

ERC

Dimensions	
	[mm]
Max. electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm ²]
Rated cross section	[mm ²]
Cross section range	AWG
Connection capacity	
1 conductor	[mm ²]
General data	
Stripping length	[mm]
Insulating material	
Inflammability class according to UL 94	

Technical data			
Width	Length	Height	
17.2	15.6	8.9	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)
24	450	0.5 - 2.5	-
IEC	UL	CSA	IEC/EN 60079-7
450	-	-	-
24 / 2.5	-	-	-
2.5	-	-	-
20 - 14	-	-	-
Connection capacity		ferrule	
solid	stranded	without/with plastic sleeve	
1 conductor	[mm ²]		
0.5 - 2.5	1.5 - 2.5	-	-
General data			
Stripping length	[mm]		
8			
Insulating material			
PC/PA			
Inflammability class according to UL 94			
V2			

Description	Color
Plug-in terminal block, 3-pos.	transparent
5-pos.	transparent
8-pos.	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/3	3240164	100



2.5 (2.5) mm², 24 A, 5-pos.



2.5 (2.5) mm², 24 A, 8-pos.

ERIC®

ERIC®

Technical data			
Width	Length	Height	
26	15.6	8.9	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)
24	450	0.5 - 2.5	-
IEC	UL	CSA	IEC/ EN 60079-7
450	-	-	-
24 / 2.5	-	-	-
2.5	-	-	-
20 - 14	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
0.5 - 2.5	1.5 - 2.5	-	-
8			
PC/PA			
V2			

Technical data			
Width	Length	Height	
39.2	15.6	8.9	
I _{max} [A]	U _{max} [V]	max. Ø [mm ²]	AWG (UL)
24	450	0.5 - 2.5	-
IEC	UL	CSA	IEC/ EN 60079-7
450	-	-	-
24 / 2.5	-	-	-
2.5	-	-	-
20 - 14	-	-	-
solid	stranded	ferrule without/with plastic sleeve	
0.5 - 2.5	1.5 - 2.5	-	-
8			
PC/PA			
V2			

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/5	3240165	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/8	3240166	50

Installation and mounting material - CABINET add-on

Connection terminal blocks and sockets

Sockets with 45 mm standard pitch



It is equally important in modern switchgears as in simple distributions: the rail-mountable socket in standard format.

The socket is mounted in an exposed position to allow mounting tools, service devices and other electrical equipment to be installed comfortably.

The mains connecting terminal blocks (L1, N and PE) are arranged on one side of the socket for easy connection. All SD sockets are supplied with equipment marker tags are available for the EMG housings.

The 45 mm socket is available with or without a miniature fuse. There is a 6.3 A fine fuse (5 x 20 mm) for protection.

System parts, in which items are still live even after the main switch has been turned off, must be marked in accordance with DIN VDE 0105-1 and IEC 60204-1/EN 60204-1/DIN VDE 0113-1 as well as the Accident Prevention Regulation VBG 4. In this case, a socket version in a yellow housing is available.

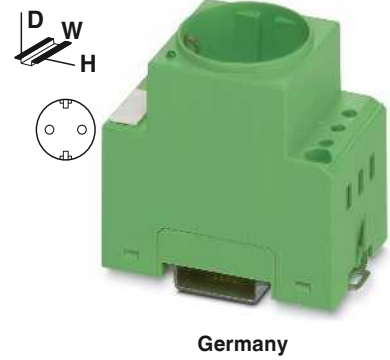
The sockets with a 45 mm standard pitch and with 90 mm double housings can be quickly snapped onto the 35 mm DIN rail in accordance with EN 60715.

For the sockets, you can choose between the following versions:

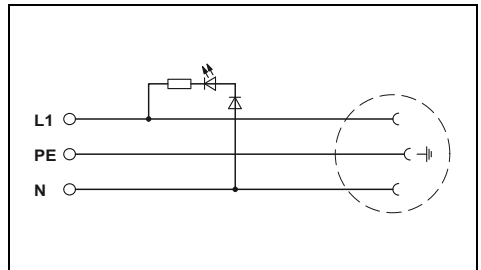
- Screw or Spring-Cage Connection
- with or without light indicator
- Grounding connector, Belgian, French or USA version
- Housing: green, yellow or light gray

With the VS-SI-SD... socket inserts, the sockets can be integrated into the IP65 VS-SI-EB-EMV-1 mounting frame, for example. For further information, visit phoenixcontact.net/products.

Notes:
Type of housing: SD-... Polyamide non-reinforced PA EMG...-SD: polycarbonate fiber reinforced PCF EM-DUO... PVC 94 V0 Socket insert Aminoplast type 131
For approvals and dimensional drawing, visit phoenixcontact.net/products



Germany



Technical data

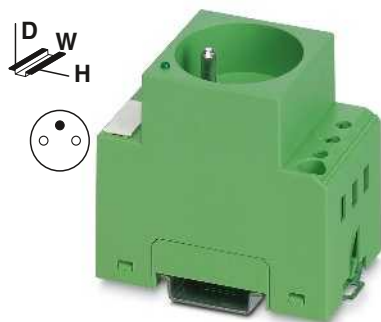
Nominal voltage	250 V AC	
Max. continuous current	16 A	
General data	SD-D... and EMG 45...	EMG 90...
Dimensions	45 mm / 75 mm / 65.2 mm	90 mm / 75 mm / 70.5 mm
Connection data solid / stranded / AWG	0.2 - 4 mm ² / 0.2 - 2.5 mm ² / 24 - 12	
Standards/regulations	IP20	
Contact material	CuZn37	
Ambient temperature range	-20°C ... 60°C	
Standards/regulations	IEC 83 , DIN 49440-1	

Ordering data

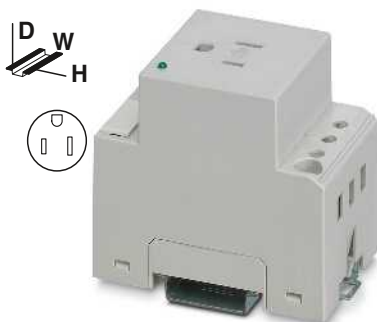
Description	Type	Order No.	Pcs. / Pkt.
Socket for the DIN rail			
Screw connection, light indicator, green	SD-D/SC/LA	2964898	5
Screw connection, light indicator, gray	SD-D/SC/LA/GY	2963491	5
Screw connection, light indicator, yellow	SD-D/SC/LA/YE	2963404	5
Screw connection, green	SD-D/SC	2963310	5
Screw connection, gray	SD-D/SC/GY	2963815	5
Screw connection, yellow	SD-D/SC/YE	2963459	5
Spring-cage connection, light indicator, green	SD-D/SP/LA	2963307	5
Spring-cage connection, light indicator, gray	SD-D/SP/LA/GY	2963488	5
Spring-cage connection, light indicator, yellow	SD-D/SP/LA/YE	2963475	5
Spring-cage connection, green	SD-D/SP	2963323	5
Spring-cage connection, gray	SD-D/SP/GY	2963501	5
Spring-cage connection, yellow	SD-D/SP/YE	2963462	5
Socket for the DIN rail with device fuse (5 x 20 mm, 6.3 A)			
Screw connection, light indicator, green	EMG 45-SD-D/LA/SI	2943738	5
Screw connection, light indicator, yellow	EMG 45-SD-D/LA/SI YE	2940825	5
Double socket for the DIN rail			
Screw connection, light indicator, green	EMG 90-2SD-D/LA	2941523	2
Screw connection, gray			
Screw connection, residual current circuit breaker, gray			

Accessories

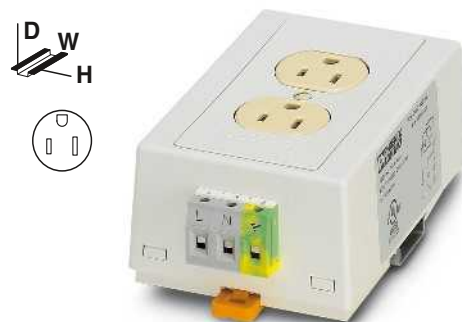
Marker tags , 5-section, unprinted, marking with X-PEN, B-STIFT, plotter or BKMT 20 x 8 label			
Lettering field size: 20 x 8 mm	white	SS-ZB WH	5031171
Lettering field size: 20 x 8 mm	yellow	SS-ZB YE	5031650
marked according to customer specifications	white	SS-ZB WH CUS	0824470



France/Belgium



USA

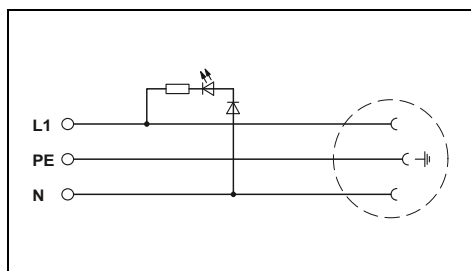


USA

ERC

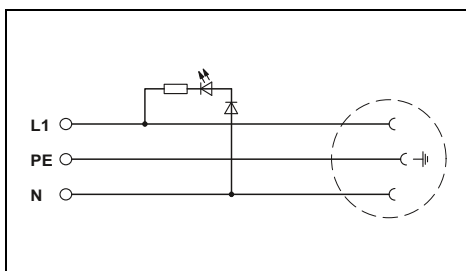
ERC

ERC



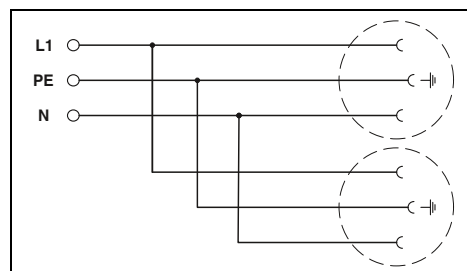
Technical data

250 V AC
16 A
SD-F...
45 mm / 75 mm / 70.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 24 - 12
IP20
CuZn37
-20°C ... 60°C
IEC 83 , DIN 49440-1



Technical data

125 V AC
15 A
SD-US...
45 mm / 75 mm / 70.5 mm
0.2 - 4 mm² / 0.2 - 2.5 mm² / 30 - 12
IP20
CuZn37
-20°C ... 60°C
IEC 83 , DIN 49440-1



Technical data

125 V AC
15 A
EM-DUO... EM-DUO.../GFI
83 mm / 134 mm / 49 mm 83 mm / 134 mm / 52 mm
0.2 - 6 mm² / 0.2 - 4 mm² / 30 - 10
IP20
-
-20°C ... 50°C
UL 508 , CSA 22.2

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-F/SC/LA	2963336	5
SD-F/SC/LA/GY	2963844	5
SD-F/SC/LA/YE	2963909	5
SD-F/SC	2963352	5
SD-F/SC/GY	2963828	5
SD-F/SP/LA	2963349	5
SD-F/SP/LA/GY	2963857	5

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-US/SC/LA/GY	2963860	10

Ordering data

Type	Order No.	Pcs. / Pkt.
EM-DUO 120/15	5600461	1
EM-DUO/120/15/GFI	5600462	1

Accessories

Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
SS-ZB WH CUS	0824470	1

Accessories

Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
SS-ZB WH CUS	0824470	1

Accessories

Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50
SS-ZB WH CUS	0824470	1

Shielding

Shield clamps SK ...

The screw-type shield connection terminal blocks of the SK series are characterized by:

- Simple handling
- Knurled screw
- Spring-loaded, large pressure piece
- Are suited to direct and busbar mounting

Notes:

For dimensional drawings, see page 551.



Shield connection clamps for busbar mounting



Shield connection clamps for direct mounting

ERC

ERC

Ordering data

Ordering data

Description	Color
Shield terminal block , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 2-5 mm, tightening torque 0.4 Nm	silver
Ø 3-8 mm, tightening torque 0.6 Nm	silver
Ø 3-14 mm, tightening torque 0.8 Nm	silver
Ø 5-20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20-35 mm, tightening torque 1.5-1.8 Nm	silver
Shield connection clamp , for applying the shield directly to the conductive mounting plates, plate thickness 1-2 mm	
Ø 2-5 mm, tightening torque 0.4 Nm	silver
Ø 3-8 mm, tightening torque 0.6 Nm	silver
Ø 3-14 mm, tightening torque 0.8 Nm	silver
Ø 5-20 mm, tightening torque 0.8 Nm	silver
Ø 5 - 28 mm, tightening torque 1 Nm	silver
Ø 20-35 mm, tightening torque 1.5-1.8 Nm	silver

Type	Order No.	Pcs. / Pkt.
SK 5	3025338	10
SK 8	3025163	10
SK 14	3025176	10
SK 20	3025189	10
SK 28	3026997	10
SK 35	3026463	10

Type	Order No.	Pcs. / Pkt.
SK 5-D	3025406	10
SK 8-D	3026861	10
SK 14-D	3026874	10
SK 20-D	3026887	10
SK 28-D	3027006	10
SK 35-D	3026890	10

Accessories

Accessories

PEN conductor busbar, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A

NLS-CU 3/10 SN 1000MM	0402174	10
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Shield clamps SKS ...

- The spring shield connection terminal blocks SKS ... are available for cable and conductor diameters of between 3 and 20 mm
- Three different forms of mounting are possible: on NS 35 DIN rails, on busbars or directly on conductive mounting plates



Shield connection clamps for busbar and direct mounting



Shield connection clamps for DIN rail mounting

Notes:

For dimensional drawings, see page 551.

ERC

ERC

Ordering data

Ordering data

Description	Color
Shield terminal block , for applying the shield to busbars, contact resistance < 1 mΩ	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver
Shield connection terminal block , for directly applying the shield to conductive mounting plates, metal thickness 1-2 mm, with fastening screw M4	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver
Shield connection terminal block , with screwfix, mounting on DIN rail NS 35..., for shield support on busbars	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver
Shield connection terminal block , with snap-on foot, mounting on DIN rail NS 35..., for shield support on busbars	
Ø 3-8 mm	silver
Ø 3-14 mm	silver
Ø 5-20 mm	silver

Type	Order No.	Pcs. / Pkt.
SKS 8	3240210	10
SKS 14	3240211	10
SKS 20	3240212	10
SKS 8-D	3240213	10
SKS 14-D	3240214	10
SKS 20-D	3240215	10

Type	Order No.	Pcs. / Pkt.
SKS 8-NS35	3240216	10
SKS 14-NS35	3240217	10
SKS 20-NS35	3240218	10
SKS 8-SNS35	3062786	10
SKS 14-SNS35	3062799	10
SKS 20-SNS35	3062809	10

Accessories

Accessories

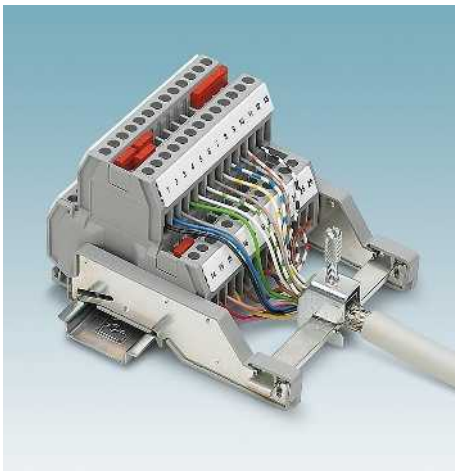
PEN conductor busbar , 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A

Type	Order No.	Pcs. / Pkt.
NLS-CU 3/10 SN 1000MM	0402174	10

Type	Order No.	Pcs. / Pkt.
NLS-CU 3/10 SN 1000MM	0402174	10

Shielding

Support bracket for shield support on one side



AB-SK TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be marked with zack marker strip and KLM terminal strip marker ...; see Catalog 5
- Parking facility for plug-in bridges FBS
- End holder function
- For mounting shield connection terminal blocks SK and SKS

AB-SK

- The single-sided shield support frames AB-SK are particularly well suited to space-saving conductor connection for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting shield connection terminal blocks SK

AB-SKS

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- Isolated to DIN rail
- End holder function
- For mounting shield connection terminal blocks SK and SKS



Support bracket frame, tall, for shield connection terminal blocks SK & SKS

Dimensions	[mm]
Width	5.2
Length	102.4
Height	

General data
Material

Description	Color
Support bracket frame with end holder function , for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK and SKS	gray

Support bracket with end holder function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for shield connection terminal blocks SK and SKS

	gray
--	------

Support bracket, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK

	gray
--	------

Support bracket, 65 mm, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK

	gray
--	------

Support bracket with end holder function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for shield connection terminal blocks SK and SKS

	gray
--	------

PEN conductor busbar, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A

	silver
--	--------

Lateral groove marking

Technical data

Width	Length	Height
5.2	102.4	

PA

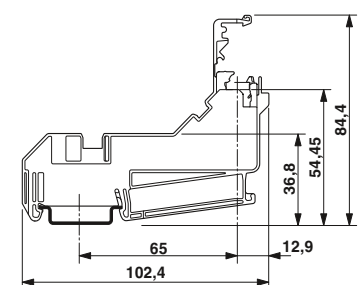
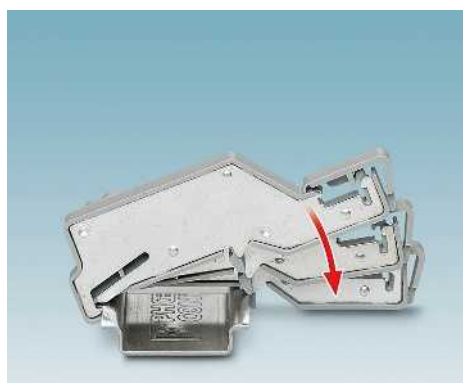
Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK TOP	3062090	10
AB-SK TOP INSULATED	3062074	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5



AB-SK TOP



Support bracket frame, for shield conn. terminal blocks SK



Support bracket, 65 mm long, for shield conn. terminal blocks SK



Isolated support bracket, tall, for shield connection terminal blocks SK and SKS

Technical data

Width	Length	Height
6.2	77.35	
PA		

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK	3025341	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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Technical data

Width	Length	Height
6.2	95.5	
PA		

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK 65	3026489	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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Technical data

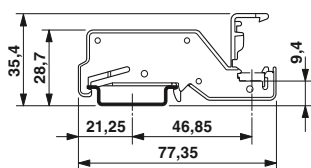
Width	Length	Height
9.5	97.8	
PA		

Ordering data

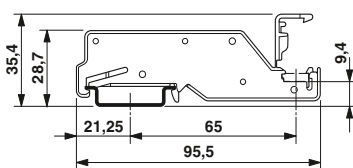
Type	Order No.	Pcs. / Pkt.
AB-SKS 60	3240223	10

Accessories

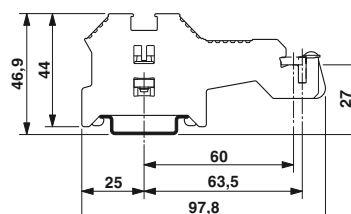
NLS-CU 3/10 SN 1000MM	0402174	10
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AB-SK



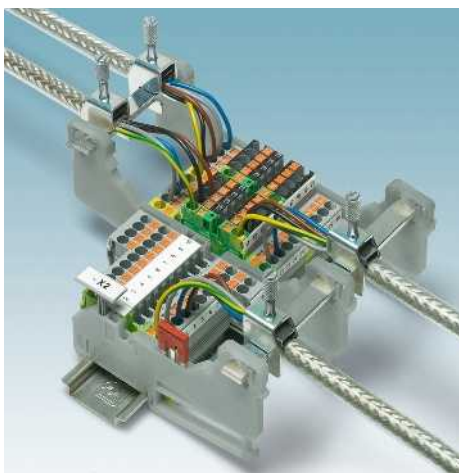
AB-SK 65



AB-SKS 60

Shielding

Double support bracket for shield support on both sides



AB-SK-D TOP

- For convenient shield connection, especially for single- and multi-level terminal blocks and devices with a front connection
- The 3 x 10 mm rail can be mounted in the support frames vertically, horizontally and at a 45° angle for optimum conductor placing
- Compact design in a 5.2 mm pitch
- Can be marked with zack marker strip and KLM terminal strip marker ...; see Catalog 5
- Parking facility for bridges and connectors
- For mounting shield connection terminal blocks SK and SKS

AB-SK 65-D

- The double shield support frames are particularly well suited to space-saving conductor connections for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting shield connection terminal blocks SK



Double support bracket, tall, for shield connection terminal blocks SK and SKS

Dimensions	[mm]
Width	5.2
Length	155.8
Height	

General data	
Material	PA

Description	Color
Double support bracket with end bracket function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK and SKS	gray

Double support bracket with end bracket function, for mounting on NS 35..., isolated to NS 35..., for accommodating 3 x 10 mm busbars, for shield connection terminal blocks SK and SKS	gray
---	------

Double support bracket, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK	gray
---	------

Double support bracket, 65 mm, for mounting on NS 35..., isolated to NS 35... for accommodating 3 x 10 mm busbars, shield connection terminal blocks SK	gray
---	------

PEN conductor busbar, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver
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Lateral groove marking
UC-TM 5, UCT-TM 5 or ZB 5
UC-TMF 5, UCT-TMF 5 or ZBF 5

Technical data		
Width	Length	Height
5.2	155.8	

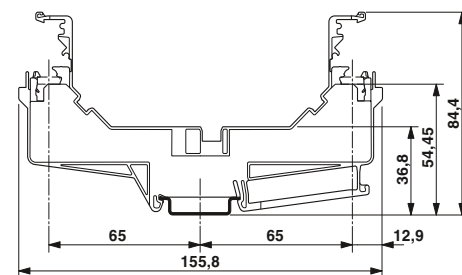
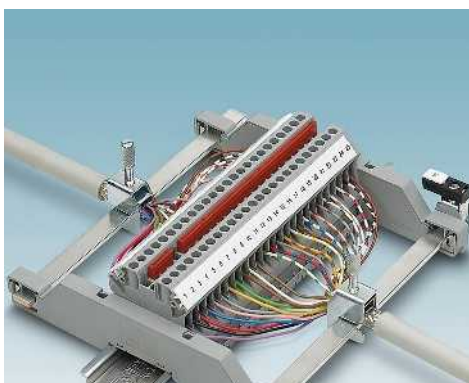
PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK-D TOP	3062100	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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AB-SK-D TOP



Isolated, double support bracket, tall, for shield connection terminal blocks SK and SKS



Double support bracket, tall, for shield connection terminal blocks SK



Isolated, double support bracket, tall, for shield connection terminal blocks SK

Technical data		
Width	Length	Height
5.2	155.8	
PA		

Technical data		
Width	Length	Height
8.2	150	
PA		

Technical data		
Width	Length	Height
8.2	150	
PA		

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

AB-SK-D TOP INSULATED	3062087	10
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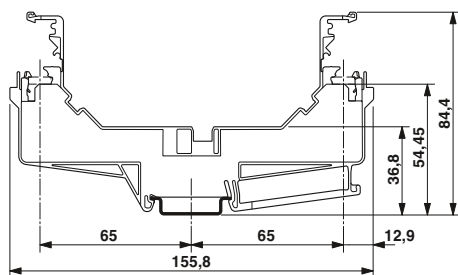
AB-SK 65-D	3026900	10
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AB-SK 65-D INSULATED	3040889	10
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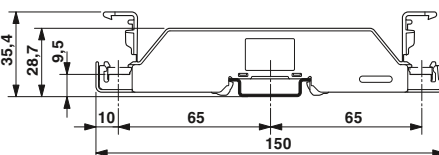
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10
UC-TM 5, UCT-TM 5 or ZB 5		
UC-TMF 5, UCT-TMF 5 or ZBF 5		

Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

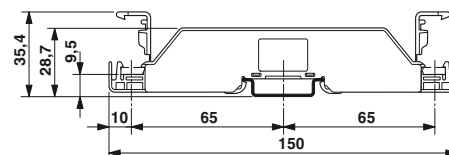
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10



AB-SK-D TOP INSULATED



AB-SK 65-D



AB-SK 65-D INSULATED

Shielding

Support bracket frame for direct mounting

The support frames are available in the following versions:

- AB/SS for isolated installation on the mounting plate and
- AB/SS-M for non-isolated installation on the mounting plate
- For mounting shield connection terminal blocks SK and SKS

Notes:
For dimensional drawings, see phoenixcontact.net/products

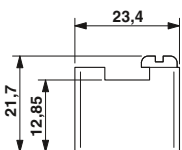


Support bracket for shield connection terminal blocks SK

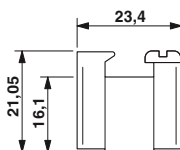


Support bracket for shield connection terminal blocks SK & SKS

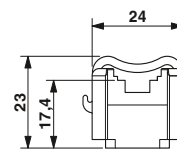
General data		Technical data			Technical data		
Material		PA			PA		
Description		Ordering data			Ordering data		
Support bracket, insulated, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
	gray	AB/SS	0404428	10			
Support bracket, with contact to the mounting plate, with retaining screw, for 3 x 10 mm busbars							
	gray	AB/SS-M	3025888	10			
Support bracket, insulated, for 3 x 10 mm or 6 x 6 mm busbars					AB/SKS	3240224	10
	gray						
PEN conductor busbar, 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A		Accessories			Accessories		
	silver	NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10



AB/SS



AB/SS-M



AB/SKS

Multi-level support bracket for direct mounting



- Double and triple support frames for different busbars
- Type allows for an extremely compact design using large amounts of wiring, e. g. for multi-level front connection terminal blocks
- Support frames are isolated
- Direct mounting



Support bracket, multi-level, insulated

General data

Material	
Description	Color
Double support bracket , insulating material, optionally for use with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm	gray
Height 48 mm	gray
Height 36.8 mm	gray
Triple support bracket , made from isolation material	gray

PEN conductor busbar , 3 x 10 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver
PEN conductor busbar , in accordance with DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: Copper, tin-plated, nominal current: 140 A	silver

Technical data

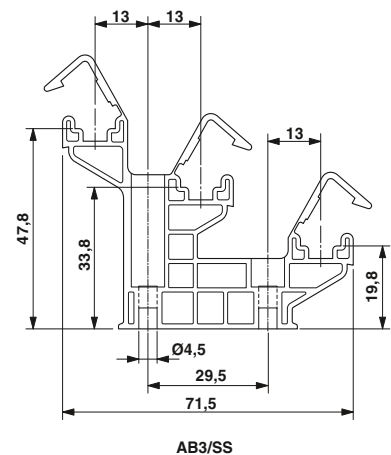
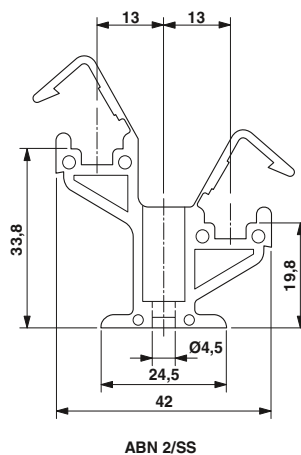
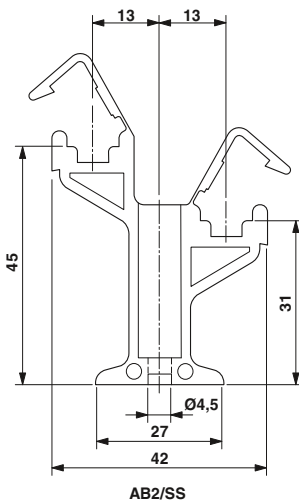
PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB2/SS	0404431	10
ABN 2/SS	0404460	10
AB3/SS	0800086	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
NLS-CU 6/6 SN 1000MM	0402161	10



Shielding

Support bracket frame for direct and DIN rail mounting

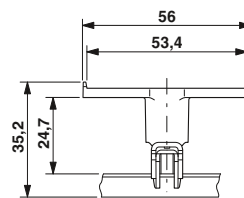


- T-shaped support frames for space-saving direct mounting and free positioning on the mounting plate
- Suitable for shield connection terminal blocks SK 5 to SK 14, SKS 8 and SKS 14
- Version for NS 35 DIN rail mounting

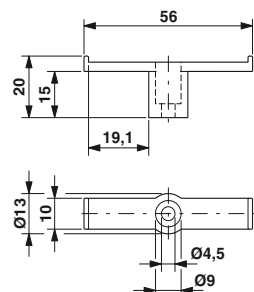


General data	
Material	Aluminum
Description	Color
Support bracket , for direct mounting with contacting on the mounting surface	silver
Support bracket frame , for mounting on NS 35 DIN rails	silver

Technical data		
Aluminum		
Ordering data		
Type	Order No.	Pcs. / Pkt.
AB-SK/E	3026476	10
AB-SK/E-NS 35	3213111	10



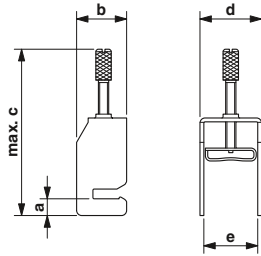
AB-SK/E-NS 35



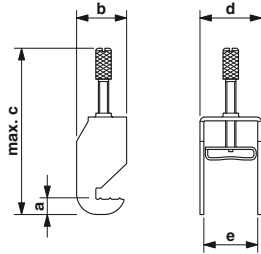
AB-SK/E

Shield connection clamps SK

Dimensions in mm					
	a	b	c	d	e
SK 5	6.5	19.5	46.8	9	6
SK 8	6.5	19.5	48.7	12	9
SK 14	6.5	19.5	59.3	17	14
SK 20	6.5	19.5	75	24	21
SK 28	6.5	20	93	32	28
SK 35	6.5	20	106.5	40	36
SK 5-D	6.5	19.5	46.8	9	6
SK 8-D	6.5	19.5	47.2	12	9
SK 14-D	6.5	19.5	57.8	17	14
SK 20-D	6.5	19.5	73.5	24	21
SK 28-D	6.5	20	91.5	32	28
SK 35-D	6.5	20	105.0	41	36



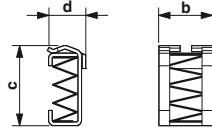
SK ...



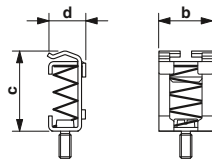
SK ...-D

Shield connection clamps SKS

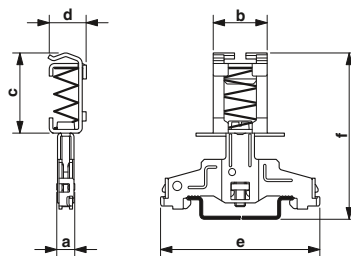
Dimensions in mm						
	a	b	c	d	e	f
SKS 8	-	18	26	12.4	-	-
SKS 14	-	21	32	19	-	-
SKS 20	-	27	40.5	24.7	-	-
SKS 8-D	-	18	26	12.4	-	-
SKS 14-D	-	21	32	19	-	-
SKS 20-D	-	27	40.5	24.7	-	-
SKS 8-NS35	6	18	26	12.4	52	54
SKS 14-NS35	6	21	32	19	52	60
SKS 20-NS35	6	27	40.5	24.7	52	68.4



SKS ...



SKS ...-D

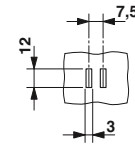


SKS ...-NS35

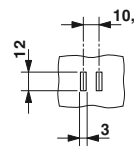
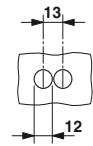
Drilling and punching patterns for SK...-D

Punching template

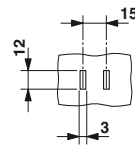
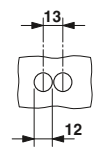
Drilling plan



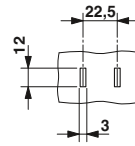
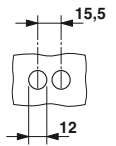
SK 5-D



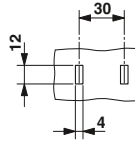
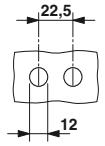
SK 8-D



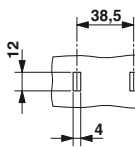
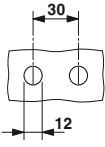
SK 14-D



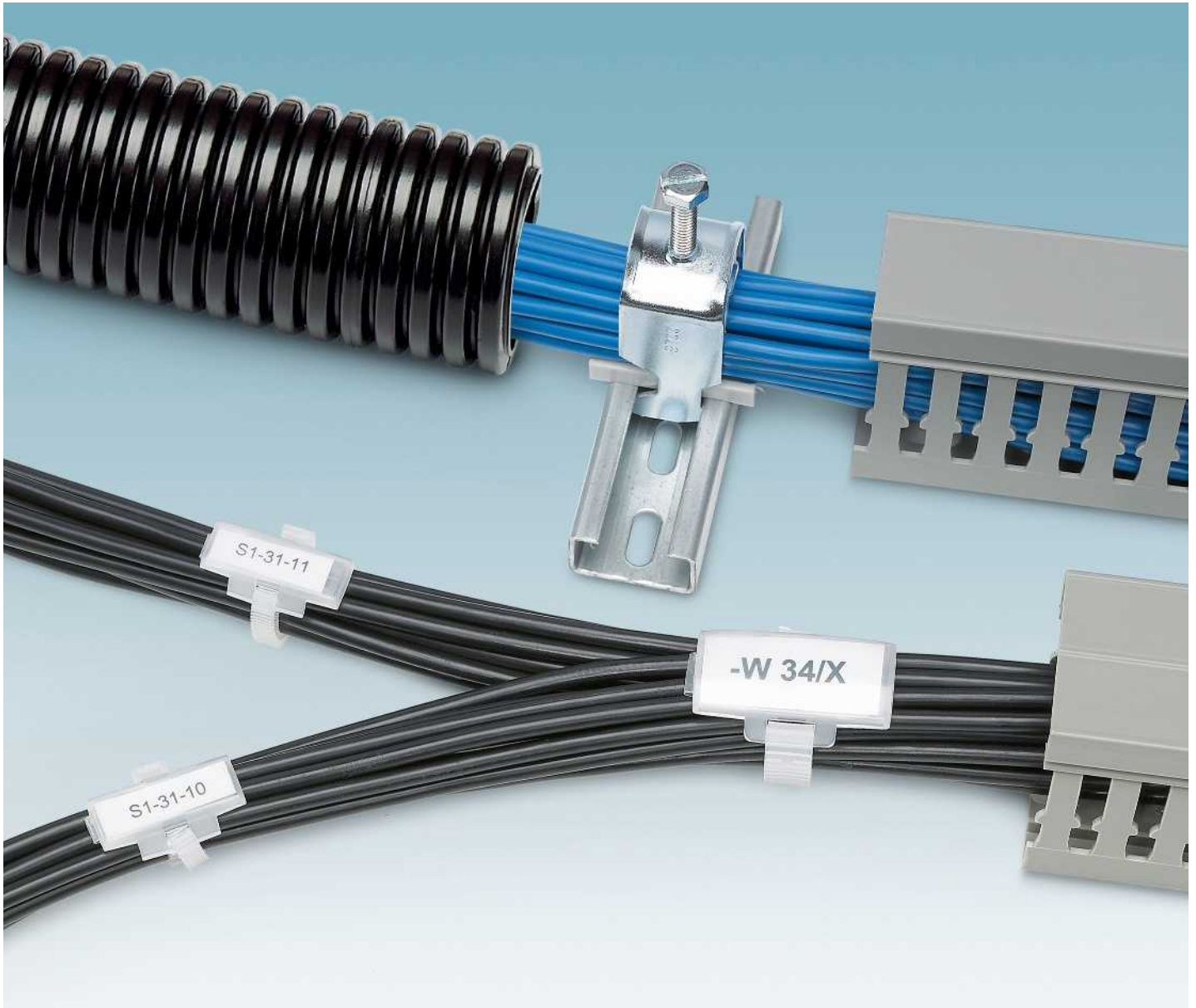
SK 20-D



SK 28-D



SK 35-D



Cable routing

The wide choice of cable ducts provides users with flexible and straightforward cable installation solutions that simply involve breaking out the lateral segments without any need for tools. The cable ducts are available in different colors and with a halogen-free design.



Cable protection

The comprehensive range of plastic and metal protective hoses provides the right solution for every application. Protective hose screw connections with tool-free quick mounting function and various IP protection classes round off the range of products.



Cable bundling

For bundling cables, detectable cable binders and stainless steel or plastic cable binders are available in either a removable version or with a marking area. Whether you are working in the food industry or the offshore sector, our comprehensive product range provides the ideal solution for every application.

Halogen-free cable ducts and accessories



Notes:
For cable ducts cut to customer requirements, visit: phoenixcontact.net/products



Halogen-free cable ducts are recommended for use in many areas that are subject to high safety requirements, such as high-rise buildings, office buildings, and public facilities where there is a high volume of foot traffic, e.g., airports. The key features of the cable ducts are as follows:

- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place
- Predetermined breaking point enables tool-free, burr-free removal of bars
- Fast and seamless creation of T and cross connections by means of an additional predetermined breaking point in the cable duct base
- Cover is securely held in place for both horizontal and vertical mounting

General data	
Material	PC/ABS
Components	Halogen-free
Inflammability class according to UL 94	V0
Temperature range	-25 ... 90 [°C]

Technical data	
Material	PC/ABS
Components	Halogen-free
Inflammability class according to UL 94	V0
Temperature range	-25 ... 90 [°C]

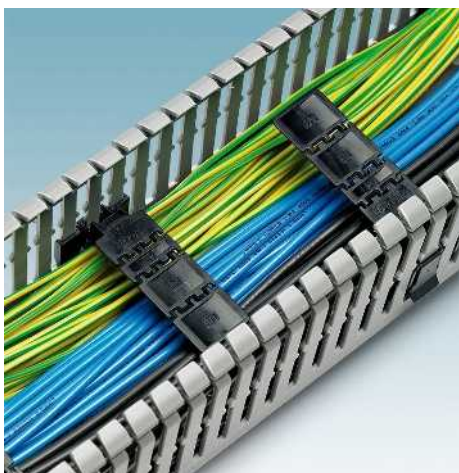
Description	Color
Cable duct, 2000 mm long, comprising lower and upper part	
W x H: 25 x 25 mm	light gray
W x H: 25 x 40 mm	light gray
W x H: 25 x 60 mm	light gray
W x H: 25 x 80 mm	light gray
W x H: 30 x 40 mm	light gray
W x H: 30 x 60 mm	light gray
W x H: 30 x 80 mm	light gray
W x H: 30 x 100 mm	light gray
W x H: 40 x 40 mm	light gray
W x H: 40 x 60 mm	light gray
W x H: 40 x 80 mm	light gray
W x H: 40 x 100 mm	light gray
W x H: 60 x 40 mm	light gray
W x H: 60 x 60 mm	light gray
W x H: 60 x 80 mm	light gray
W x H: 60 x 100 mm	light gray
W x H: 80 x 25 mm	light gray
W x H: 80 x 40 mm	light gray
W x H: 80 x 60 mm	light gray
W x H: 80 x 80 mm	light gray
W x H: 80 x 100 mm	light gray
W x H: 100 x 40 mm	light gray
W x H: 100 x 60 mm	light gray
W x H: 100 x 80 mm	light gray
W x H: 100 x 100 mm	light gray
W x H: 120 x 60 mm	light gray
W x H: 120 x 80 mm	light gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD-HF 25X25	3240340	25
CD-HF 25X40	3240341	24
CD-HF 25X60	3240342	15
CD-HF 25X80	3240343	10
CD-HF 30X40	3240344	20
CD-HF 30X60	3240345	24
CD-HF 30X80	3240346	12
CD-HF 30X100	3240347	12
CD-HF 40X40	3240348	25
CD-HF 40X60	3240349	20
CD-HF 40X80	3240350	10
CD-HF 40X100	3240351	10
CD-HF 60X40	3240352	20
CD-HF 60X60	3240353	12
CD-HF 60X80	3240354	10
CD-HF 60X100	3240355	8
CD-HF 80X25	3240356	12
CD-HF 80X40	3240357	15
CD-HF 80X60	3240358	10
CD-HF 80X80	3240359	6
CD-HF 80X100	3240360	8
CD-HF 100X40	3240361	10
CD-HF 100X60	3240362	8
CD-HF 100X80	3240363	6
CD-HF 100X100	3240364	6
CD-HF 120X60	3240365	6
CD-HF 120X80	3240366	4



Upper cable duct part, 2000 mm long	
For a width of 25 mm	
For a width of 30 mm	
For a width of 40 mm	
For a width of 60 mm	
For a width of 80 mm	
For a width of 100 mm	
For a width of 120 mm	
Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80 and 100 mm	
Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm	
6 mm diameter, material thickness of 2 ... 8 mm	
Rivet setting tool, for use with RVT-PA 4 plastic body-bound rivets	
Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets	

Accessories		
CD-HF COVER 25	3240369	14
CD-HF COVER 30	3240370	10
CD-HF COVER 40	3240371	14
CD-HF COVER 60	3240372	10
CD-HF COVER 80	3240373	10
CD-HF COVER 100	3240367	7
CD-HF COVER 120	3240368	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1



- Installed conductors are securely held in place by means of wire retaining clips that can be snapped onto bars on the side
- The wide, diagonal heads of the cable duct bars make it easy to fit the cover and hold it securely in place



- Predetermined breaking point enables tool-free, burr-free removal of bars
- The CUTFOX-CD cable duct cutter for easy cutting with minimum effort and no burrs



- Plastic body-bound rivets enable easy fixing of cable ducts using the rivet setting tool



- Thanks to its powerful leverage and special blade geometry, the PPS CD cable duct cutter allows easy cutting with minimum effort and no burrs

Notes:

For cable ducts cut to customer requirements, visit: phoenixcontact.net/products

General data

Material

Inflammability class according to UL 94

Temperature range

[°C]

Description

Cable duct, 2000 mm long, comprising **lower** and **upper part**

W x H: 25 x 25 mm
 W x H: 25 x 40 mm
 W x H: 25 x 60 mm
 W x H: 25 x 80 mm
 W x H: 30 x 40 mm
 W x H: 30 x 60 mm
 W x H: 30 x 80 mm
 W x H: 30 x 100 mm
 W x H: 40 x 40 mm
 W x H: 40 x 60 mm
 W x H: 40 x 80 mm
 W x H: 40 x 100 mm
 W x H: 60 x 40 mm
 W x H: 60 x 60 mm
 W x H: 60 x 80 mm
 W x H: 60 x 100 mm
 W x H: 80 x 25 mm
 W x H: 80 x 40 mm
 W x H: 80 x 60 mm
 W x H: 80 x 80 mm
 W x H: 80 x 100 mm
 W x H: 100 x 40 mm
 W x H: 100 x 60 mm
 W x H: 100 x 80 mm
 W x H: 100 x 100 mm
 W x H: 120 x 60 mm
 W x H: 120 x 80 mm

Upper cable duct part, 2000 mm long

For a width of 25 mm
 For a width of 30 mm
 For a width of 40 mm
 For a width of 60 mm
 For a width of 80 mm
 For a width of 100 mm
 For a width of 120 mm

Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80 and 100 mm

Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm

6 mm diameter, material thickness of 2 ... 8 mm

Rivet setting tool, for use with RVT-PA 4 plastic body-bound rivets

Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets



Cable ducts, gray



Cable ducts, white



Cable ducts, blue



Technical data
PVC
V0
-5 ... 60

Technical data
PVC
V0
-5 ... 60

Technical data
PVC
V0
-5 ... 60

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25	3240187	25
CD 25X40	3240188	24
CD 25X60	3240191	15
CD 25X80	3240197	10
CD 30X40	3240278	20
CD 30X60	3240280	24
CD 30X80	3240282	12
CD 30X100	3240283	12
CD 40X40	3240189	25
CD 40X60	3240192	20
CD 40X80	3240198	10
CD 40X100	3240294	10
CD 60X40	3240190	20
CD 60X60	3240193	12
CD 60X80	3240199	10
CD 60X100	3240263	8
CD 80X25	3240281	12
CD 80X40	3240335	15
CD 80X60	3240194	10
CD 80X80	3240200	6
CD 80X100	3240264	8
CD 100X40	3240279	10
CD 100X60	3240195	8
CD 100X80	3240201	6
CD 100X100	3240205	6
CD 120X60	3240196	6
CD 120X80	3240202	4

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 WH	3240616	25
CD 25X40 WH	3240617	24
CD 25X60 WH	3240618	15
CD 25X80 WH	3240619	10
CD 30X40 WH	3240620	20
CD 30X60 WH	3240621	24
CD 30X80 WH	3240622	12
CD 30X100 WH	3240623	12
CD 40X40 WH	3240624	25
CD 40X60 WH	3240625	20
CD 40X80 WH	3240626	10
CD 40X100 WH	3240627	10
CD 60X40 WH	3240628	20
CD 60X60 WH	3240629	12
CD 60X80 WH	3240630	10
CD 60X100 WH	3240631	8
CD 80X25 WH	3240632	12
CD 80X40 WH	3240633	15
CD 80X60 WH	3240634	10
CD 80X80 WH	3240635	6
CD 80X100 WH	3240636	8
CD 100X40 WH	3240637	10
CD 100X60 WH	3240638	8
CD 100X80 WH	3240639	6
CD 100X100 WH	3240640	6
CD 120X60 WH	3240641	6
CD 120X80 WH	3240642	4

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 BU	3240301	25
CD 25X40 BU	3240302	24
CD 25X60 BU	3240303	15
CD 25X80 BU	3240304	10
CD 30X40 BU	3240305	20
CD 30X60 BU	3240306	24
CD 30X80 BU	3240307	12
CD 30X100 BU	3240308	12
CD 40X40 BU	3240309	25
CD 40X60 BU	3240310	20
CD 40X80 BU	3240311	10
CD 40X100 BU	3240312	10
CD 60X40 BU	3240313	20
CD 60X60 BU	3240314	12
CD 60X80 BU	3240315	10
CD 60X100 BU	3240316	8
CD 80X25 BU	3240317	12
CD 80X40 BU	3240318	15
CD 80X60 BU	3240319	12
CD 80X80 BU	3240320	6
CD 80X100 BU	3240321	8
CD 100X40 BU	3240322	10
CD 100X60 BU	3240323	8
CD 100X80 BU	3240324	6
CD 100X100 BU	3240325	6
CD 120X60 BU	3240326	6
CD 120X80 BU	3240327	4

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25	3240285	14
CD COVER 30	3240295	20
CD COVER 40	3240286	14
CD COVER 60	3240287	10
CD COVER 80	3240288	10
CD COVER 100	3240289	6
CD COVER 120	3240290	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25 WH	3240645	14
CD COVER 30 WH	3240646	10
CD COVER 40 WH	3240647	14
CD COVER 60 WH	3240648	10
CD COVER 80 WH	3240649	10
CD COVER 100 WH	3240643	6
CD COVER 120 WH	3240644	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25 BU	3240330	14
CD COVER 30 BU	3240331	10
CD COVER 40 BU	3240332	14
CD COVER 60 BU	3240333	10
CD COVER 80 BU	3240334	10
CD COVER 100 BU	3240328	6
CD COVER 120 BU	3240329	6
CD WR	3240284	10
RVT-PA 4	3240498	100
RVT-PA 6	3240499	100
UNIFOX-RVT P 4	1212478	1
UNIFOX-RVT P 6	1212509	1

Cable duct cutters



- Easy, burr-free cutting with minimum effort, thanks to the special cutting geometry and optimum leverage
- Non-slip ergonomic grip
- With spring reset
- 45° limit stop
- 75 mm cutting width



ERC

Dimensions	
	[mm]
General data	
Weight	[kg]

Technical data		
Width	Length	Height
-	245	-
0.43		

Description		Color	
Cable duct cutter		black	
Cable duct cutters		black	

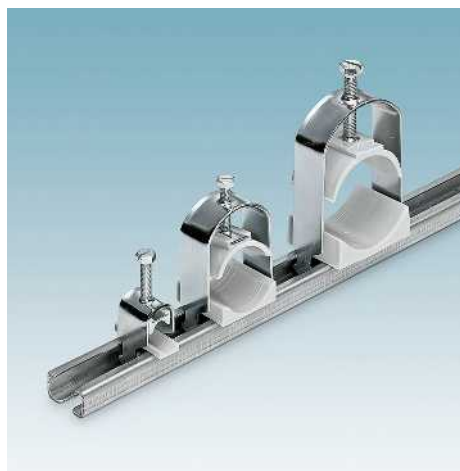
Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-CD	1212474	1
PPS CD M	1207569	1

Replacement blade, for PPS CD M
Replacement counter support (grip protection), for PPS CD M
Workbench, with plywood panel 700 x 1200 x 50 mm, without mounting screws and bore holes

Accessories		
Type	Order No.	Pcs. / Pkt.
PPS CD BLADE	1207572	1
PPS CD M COHO	1208995	1
PPS TABLE	1206285	1



Cable clamps and DIN rail



- The cable clamps provide strain relief
- Individual or bundled cables with a diameter of up to 64 mm can be safely and easily installed
- The halogen-free plastic troughs have been designed to be perfectly secure while at the same time protecting the conductors



Cable clamps for a cable diameter of 6 - 64 mm

General data

Material

Technical data

Steel

Ordering data

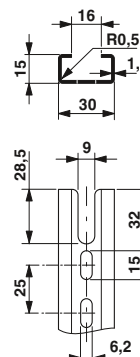
Description

Cable clamp, for DIN rail

- For cable diameters of 6 – 14 mm
- For cable diameters of 12 – 18 mm
- For cable diameters of 18 – 22 mm
- For cable diameters of 22 – 26 mm
- For cable diameters of 26 – 30 mm
- For cable diameters of 30 – 34 mm
- For cable diameters of 34 – 38 mm
- For cable diameters of 38 – 42 mm
- For cable diameters of 42 – 56 mm
- For cable diameters of 56 – 64 mm

DIN rails, for cable clamps

Type	Order No.	Pcs. / Pkt.
WCC 14	3240252	25
WCC 18	3240253	25
WCC 22	3240254	25
WCC 26	3240255	25
WCC 30	3240256	25
WCC 34	3240257	25
WCC 38	3240258	25
WCC 42	3240259	25
WCC 56	3240260	25
WCC 64	3240261	25
NS 30/15 PERF.2000MM	3240262	5



NS 30/15 PERF. 2000MM DIN rail

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses made of plastic



The plastic protective hoses offer optimum protection, thanks to the following properties:

- Airtight and liquid tight
- Oil-resistant up to +80°C
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- UV resistant

The V0 version provides additional protection, thanks to its self-extinguishing property. This makes it suitable for use in the following areas:

- Machine and system engineering
- Vehicle construction
- Rail vehicles
- Shipbuilding
- Automation
- Electrical systems

The transition and end sleeves offer an alternative form of termination to the actual cable gland.

- Can be used wherever it is not possible or necessary to attach a cable gland
- Prevent damage to the conductors being fed through



Notes:
Pcs. / Pkt. specifies the protective hose length in [m].



Slotted, outside diameter of 21.2 - 42.5 mm



General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Technical data	
PA	
free from silicone, halogen, and cadmium	
V0	
-40 ... 105	

Description	Color
-------------	-------

Protective hose, slotted, for retrofitting

Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
21.2 / 16.5	40	black
28.5 / 23	45	black
34.5 / 29	55	black
42.5 / 36	65	black

Protective hose		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static/dynamic	
10 / 6.5	13 / 35	black
13 / 10	20 / 45	black
15.8 / 12	35 / 55	black
21.2 / 16.5	45 / 75	black
28.5 / 23	55 / 100	black
34.5 / 29	65 / 120	black
42.5 / 36	90 / 150	black

Protective hose		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static/dynamic	
10 / 6.5	13 / 35	black
13 / 10	20 / 45	black
15.8 / 12	35 / 55	black
21.2 / 16.5	45 / 75	black
28.5 / 23	55 / 100	black
34.5 / 29	65 / 120	black
42.5 / 36	90 / 150	black

Transition sleeves, from hose to cable		
Diameter [mm]		
Outside/inside		
10 / 8	8	black
13 / 10	10	black
15.8 / 12	12	black
21.2 / 16.5	16.5	black
28.2 / 23	23	black
34.5 / 29	29	black
42.5 / 37	37	black

End sleeves		
Diameter [mm]		
Outside/inside		
10 / 4.3		black
13 / 7.8		black
15.8 / 10.3		black
21.2 / 14.3		black
28.2 / 20.8		black
34.5 / 26.8		black
42.5 / 33.8		black

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-PA HF-SL 21,2 BK	3240845	10
WP-PA HF-SL 28,5 BK	3240846	10
WP-PA HF-SL 34,5 BK	3240847	10
WP-PA HF-SL 42,5 BK	3240848	10



PA 6.6 V0 plastic protective hose, outside diameter of 10 - 42.5 mm



PA 6.6 HB plastic protective hose, outside diameter of 10 - 42.5 mm



Transition sleeve for protective hose diameters of 10 - 42.5 mm



Technical data
PA free from silicone, halogen, and cadmium V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium V0 -40 ... 105

Technical data
TPE halogen-free HB -40 ... 120

Ordering data

Ordering data

Ordering data

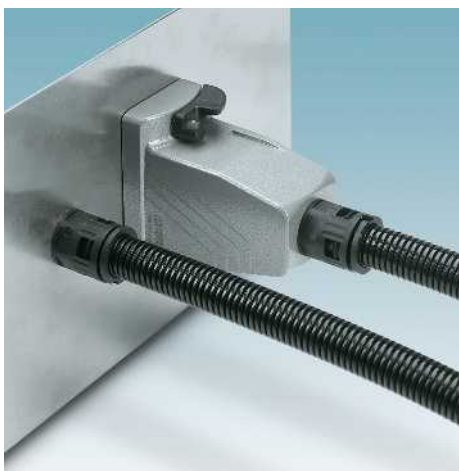
Type	Order No.	Pcs. / Pkt.
WP-PA HF 10,0 BK	3240680	50
WP-PA HF 13,0 BK	3240681	50
WP-PA HF 15,8 BK	3240682	50
WP-PA HF 21,2 BK	3240683	50
WP-PA HF 28,5 BK	3240684	50
WP-PA HF 34,5 BK	3241088	25
WP-PA HF 42,5 BK	3241089	25

Type	Order No.	Pcs. / Pkt.
WP-PA HF-HB 10,0 BK	3240838	50
WP-PA HF-HB 13,0 BK	3240839	50
WP-PA HF-HB 15,8 BK	3240840	50
WP-PA HF-HB 21,2 BK	3240841	50
WP-PA HF-HB 28,5 BK	3240842	50
WP-PA HF-HB 34,5 BK	3240843	25
WP-PA HF-HB 42,5 BK	3240844	25

Type	Order No.	Pcs. / Pkt.
WP-EC TPE HF 10,0 BK	3240974	50
WP-EC TPE HF 13,0 BK	3240975	50
WP-EC TPE HF 15,8 BK	3240976	50
WP-EC TPE HF 21,2 BK	3240977	50
WP-EC TPE HF 28,5 BK	3240978	25
WP-EC TPE HF 34,5 BK	3240979	25
WP-EC TPE HF 42,5 BK	3240980	25
WP-SC PA HF 10,0 BK	3240981	50
WP-SC PA HF 13,0 BK	3240982	50
WP-SC PA HF 15,8 BK	3240983	50
WP-SC PA HF 21,2 BK	3240984	50
WP-SC PA HF 28,5 BK	3240985	25
WP-SC PA HF 34,5 BK	3240986	25
WP-SC PA HF 42,5 BK	3240987	25

Cable routing, cable protection, cable bundling

Screw connections for plastic protective hoses



The plastic screw connections with straight design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection, see figure below



Notes:

For accessories and dimensional drawings, see phoenixcontact.net/products



IP66 degree of protection,
Pg7 - Pg36 thread



Technical data

General data	
Material	PA
Components	free from silicone, halogen, and cadmium
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	V0
Temperature range	-40 ... 115 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-G HF IP66 PG7 BK	3240888	50
13	black	WP-G HF IP66 PG9 BK	3240889	50
15.8	black	WP-G HF IP66 PG11 BK	3240890	50
21.2	black	WP-G HF IP66 PG16 BK	3240891	50
28.5	black	WP-G HF IP66 PG21 BK	3240892	25
34.5	black	WP-G HF IP66 PG29 BK	3240893	25
42.5	black	WP-G HF IP66 PG36 BK	3240894	25
Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 578 onwards



IP66 degree of protection,
M10 - M40 metric thread



IP69K degree of protection,
Pg7 - Pg36 thread



IP69K degree of protection,
M10 - M40 metric thread



Technical data
PA free from silicone, halogen, and cadmium IP66 metric V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K Pg V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K metric V0 -40 ... 115

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G HF IP66 M10 BK	3240895	50
WP-G HF IP66 M12 BK	3240896	50
WP-G HF IP66 M16 BK	3240897	50
WP-G HF IP66 M20 BK	3240898	50
WP-G HF IP66 M25 BK	3240899	25
WP-G HF IP66 M32 BK	3240900	25
WP-G HF IP66 M40 BK	3240901	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G HF IP69K PG7 BK	3240874	50
WP-G HF IP69K PG9 BK	3240875	50
WP-G HF IP69K PG11 BK	3240876	50
WP-G HF IP69K PG16 BK	3240877	50
WP-G HF IP69K PG21 BK	3240878	25
WP-G HF IP69K PG29 BK	3240879	25
WP-G HF IP69K PG36 BK	3240880	25

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-G HF IP69K M10 BK	3240881	50
WP-G HF IP69K M12 BK	3240882	50
WP-G HF IP69K M16 BK	3240883	50
WP-G HF IP69K M20 BK	3240884	50
WP-G HF IP69K M25 BK	3240885	25
WP-G HF IP69K M32 BK	3240886	25
WP-G HF IP69K M40 BK	3240887	25

Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

Cable routing, cable protection, cable bundling

Screw connections, angled, for plastic protective hoses



The plastic screw connections with angled design are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

Notes:

For accessories and dimensional drawings, see phoenixcontact.net/products



IP66 degree of protection,
Pg7 - Pg36 thread



General data

Material	
Components	
Degree of protection	IP66
Thread type	Pg
Inflammability class according to UL 94	HB
Temperature range	-40 ... 115 [°C]

Technical data

PA
free from silicone, halogen, and cadmium
IP66
Pg
HB
-40 ... 115

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP66, 90° angled, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-GA HF IP66 PG7 BK	3240916	50
13	black	WP-GA HF IP66 PG9 BK	3240917	50
15.8	black	WP-GA HF IP66 PG11 BK	3240918	50
21.2	black	WP-GA HF IP66 PG16 BK	3240919	50
28.5	black	WP-GA HF IP66 PG21 BK	3240920	25
34.5	black	WP-GA HF IP66 PG29 BK	3240921	10
42.5	black	WP-GA HF IP66 PG36 BK	3240922	10
Screw connection, IP66, 90° angled, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, 90° angled, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, 90° angled, with metric thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 578 onwards



IP66 degree of protection,
M10 - M40 metric thread



IP69K degree of protection,
Pg7 - Pg36 thread



IP69K degree of protection,
M10 - M40 metric thread



Technical data

PA
free from silicone, halogen, and cadmium
IP66
metric
HB
-40 ... 115

Technical data

PA
free from silicone, halogen, and cadmium
IP68/IP69K
Pg
HB
-40 ... 115

Technical data

PA
free from silicone, halogen, and cadmium
IP68/IP69K
metric
HB
-40 ... 115

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP66 M10 BK	3240923	50
WP-GA HF IP66 M12 BK	3240924	50
WP-GA HF IP66 M16 BK	3240925	50
WP-GA HF IP66 M20 BK	3240926	50
WP-GA HF IP66 M25 BK	3240927	50
WP-GA HF IP66 M32 BK	3240928	25
WP-GA HF IP66 M40 BK	3240929	10

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP69K PG7 BK	3240902	50
WP-GA HF IP69K PG9 BK	3240903	50
WP-GA HF IP69K PG11 BK	3240904	50
WP-GA HF IP69K PG16 BK	3240905	50
WP-GA HF IP69K PG21 BK	3240906	25
WP-GA HF IP69K PG29 BK	3240907	10
WP-GA HF IP69K PG36 BK	3240908	10

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-GA HF IP69K M10 BK	3240909	50
WP-GA HF IP69K M12 BK	3240910	50
WP-GA HF IP69K M16 BK	3240911	50
WP-GA HF IP69K M20 BK	3240912	50
WP-GA HF IP69K M25 BK	3240913	25
WP-GA HF IP69K M32 BK	3240914	10
WP-GA HF IP69K M40 BK	3240915	10

Accessories

see page 578 onwards

Accessories

see page 578 onwards

Accessories

see page 578 onwards

Cable routing, cable protection, cable bundling

Screw connections with strain relief, for plastic protective hoses



The plastic screw connections with strain relief are available in IP66 and IP69K protection classes. They offer the following features:

- Vibration-resistant, automatic protective hose latching
- Pg or metric thread
- Integrated cable strain relief
- Resistant to oil and gasoline
- Resistant to acids and solvents
- Free from silicone, halogen, and cadmium

Tool-free protective hose mounting

- Secure, reliable, and easy latching in the hose screw connection

Notes:

For accessories and dimensional drawings, see phoenixcontact.net/products



IP66 degree of protection, Pg7 - Pg36 thread, with strain relief



Technical data

Material: PA
 Components: free from silicone, halogen, and cadmium
 Degree of protection: IP66
 Thread type: Pg
 V0
 Temperature range: -40 ... 115 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Screw connection, IP66, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black	WP-GR HF IP66 PG7 BK	3240944	20
13	black	WP-GR HF IP66 PG9 BK	3240945	20
15.8	black	WP-GR HF IP66 PG11 BK	3240946	20
21.2	black	WP-GR HF IP66 PG16 BK	3240947	10
28.5	black	WP-GR HF IP66 PG21 BK	3240948	10
34.5	black	WP-GR HF IP66 PG29 BK	3240949	10
42.5	black	WP-GR HF IP66 PG36 BK	3240950	10
Screw connection, IP66, straight, with metric thread, for protective hose outside diameter [mm]				
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with Pg thread, for protective hose outside diameter [mm]				
10	black			
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			
Screw connection, IP69K, straight, with metric thread, for protective hose outside diameter [mm]				
13	black			
15.8	black			
21.2	black			
28.5	black			
34.5	black			
42.5	black			

Accessories

Counter nuts and seals

see page 578 onwards



IP66 degree of protection, M12 - M40 metric thread, with strain relief



IP69K degree of protection, Pg7 - Pg36 thread, with strain relief



IP69K degree of protection, M12 - M40 metric thread, with strain relief



Technical data
PA free from silicone, halogen, and cadmium IP66 metric V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K Pg V0 -40 ... 115

Technical data
PA free from silicone, halogen, and cadmium IP68/IP69K metric V0 -40 ... 115

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GR HF IP66 M12 BK	3240952	20
WP-GR HF IP66 M16 BK	3240953	20
WP-GR HF IP66 M20 BK	3240954	20
WP-GR HF IP66 M25 BK	3240955	10
WP-GR HF IP66 M32 BK	3240956	10
WP-GR HF IP66 M40 BK	3240957	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GR HF IP69K PG7 BK	3240930	20
WP-GR HF IP69K PG9 BK	3240931	20
WP-GR HF IP69K PG11 BK	3240932	20
WP-GR HF IP69K PG16 BK	3240933	10
WP-GR HF IP69K PG21 BK	3240934	10
WP-GR HF IP69K PG29 BK	3240935	10
WP-GR HF IP69K PG36 BK	3240936	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-GR HF IP69K M12 BK	3240938	20
WP-GR HF IP69K M16 BK	3240939	20
WP-GR HF IP69K M20 BK	3240940	20
WP-GR HF IP69K M25 BK	3240941	10
WP-GR HF IP69K M32 BK	3240942	10
WP-GR HF IP69K M40 BK	3240943	10

Accessories		
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Accessories		
see page 578 onwards		

Accessories		
see page 578 onwards		

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses with PVC- or PU-coated spirals



The **WP-SPIRAL PVC C ...** plastic protective hoses with soft PVC-coated spring wire helix offer optimum protection, thanks to the following properties:

- Highly flexible
- Can be stretched and compressed
- Internal corrosion protection
- Largely resistant to acids and solvents
- Free from silicone and cadmium
- Airtight and liquid tight

The **WP-SPIRAL PU C ...** plastic protective hoses with fixed, PU-coated spring wire helix offer the following:

- Very tough and resistant to abrasion
- Highly flexible
- Resistant to germs
- Airtight and liquid tight
- Resistant to oil and grease
- Gasoline-resistant
- Largely resistant to acids and solvents
- Free from silicone, halogen, and cadmium
- Flame-protected
- Behaves extremely well at low temperatures
- V2 according to UL 94
- Suitable as a suction tube

The covered protective hoses are particularly suitable for the following fields of application:

- Machine and system engineering
- Vehicle construction
- Use in guide chains
- Shipbuilding
- Automation
- Electrical systems

Notes:
Pcs. / Pkt. specifies the protective hose length in [m].



Protective hose, PVC coated spiral, outside diameter of 10 - 45 mm



General data	
Material	PVC
Components	Free from silicone and cadmium
Inflammability class according to UL 94	-
Temperature range	-25 ... 80 [°C]

Technical data

Technical data	
Material	PVC
Components	Free from silicone and cadmium
Inflammability class according to UL 94	-
Temperature range	-25 ... 80 [°C]

Description	Color	
Protective hose, PVC-coated spiral		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 7	8	gray
14 / 10	10	gray
17 / 13	13	gray
21 / 16	17	gray
27 / 22	20	gray
36 / 29	24	gray
45 / 38	36	gray
Protective hose, PU-coated spiral		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 7	8	blue
14 / 10	10	blue
17 / 13	13	blue
21 / 16	17	blue
27 / 22	20	blue
36 / 29	24	blue
45 / 38	36	blue
End sleeves		
Diameter [mm]	Cable diameter [mm]	
Outside/inside		
10 / 7	6	gray
14 / 10	9	gray
17 / 13	11.5	gray
21 / 16	14.5	gray
27 / 21	19.5	gray
36 / 29	26.5	gray
45 / 38	36	gray

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-SPIRAL PVC C 10	3240849	10
WP-SPIRAL PVC C 14	3240850	10
WP-SPIRAL PVC C 17	3240851	10
WP-SPIRAL PVC C 21	3240852	10
WP-SPIRAL PVC C 27	3240853	10
WP-SPIRAL PVC C 36	3240854	10
WP-SPIRAL PVC C 45	3240855	10



Protective hose, PU coated spiral,
outside diameter of 10 - 45 mm



End sleeve for protective hose
diameter of 10 - 45 mm



Technical data			Technical data		
PU Free from silicone, halogen, and cadmium V2 -40 ... 80			PP Halogen-free HB -10 ... 110		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-SPIRAL PU C HF 10	3240856	10			
WP-SPIRAL PU C HF 14	3240857	10			
WP-SPIRAL PU C HF 17	3240858	10			
WP-SPIRAL PU C HF 21	3240859	10			
WP-SPIRAL PU C HF 27	3240860	10			
WP-SPIRAL PU C HF 36	3240861	10			
WP-SPIRAL PU C HF 45	3240862	10			
			WP-SC HF 10	3241016	50
			WP-SC HF 14	3241017	50
			WP-SC HF 17	3241018	50
			WP-SC HF 21	3241019	50
			WP-SC HF 27	3241020	25
			WP-SC HF 36	3241021	25
			WP-SC HF 45	3241022	20

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections, for protective hoses with coated spirals



The polypropylene screw connections with a straight design are available with or without a rotatable connecting thread.

- Easy, tool-free mounting
- High resistance to dust and fluids
- Vibration resistance and high tensile strength, thanks to hose screw-out locking

Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



IP65 degree of protection, Pg7 - Pg36 thread



Technical data

General data	
Material	PP
Degree of protection	IP65
Thread type	Pg
Components	Halogen-free
Inflammability class according to UL 94	HB
Temperature range	-10 ... 110 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.	
Screw connection, IP65, straight, with Pg thread					
Outside diameter of protective hose [mm]	Cable diameter [mm]				
10	6	gray	WP-G PP HF PG7	3240988	10
14	9	gray	WP-G PP HF PG9	3240989	10
17	11	gray	WP-G PP HF PG11	3240990	10
21	14.5	gray	WP-G PP HF PG16	3240991	10
27	19.5	gray	WP-G PP HF PG21	3240992	10
36	27	gray	WP-G PP HF PG29	3240993	2
45	36	gray	WP-G PP HF PG36	3240994	2
Screw connection, IP65, straight, with metric thread					
Outside diameter of protective hose [mm]	Cable diameter [mm]				
10	6	gray			
14	8	gray			
17	11	gray			
21	15	gray			
27	20	gray			
36	27	gray			
45	35	gray			
Screw connection, IP54, rotatable, with Pg thread					
Outside diameter of protective hose [mm]	Cable diameter [mm]				
10	5.5	gray			
14	9.5	gray			
17	11.5	gray			
21	14.5	gray			
27	19.5	gray			
36	27	gray			
45	35.5	gray			
Screw connection, IP54, rotatable, with metric thread					
Outside diameter of protective hose [mm]	Cable diameter [mm]				
10	5.5	gray			
14	9.5	gray			
17	11.5	gray			
21	14.5	gray			
27	19.5	gray			
36	27	gray			

Accessories

Counter nuts and seals

see page 578 onwards



IP65 degree of protection, M10 - M40 metric thread



IP54 degree of protection, Pg7 - Pg36 thread, rotatable



IP54 degree of protection, M12 - M40 metric thread, rotatable



Technical data
PP
IP65
Metric
Halogen-free
HB
-10 ... 110

Technical data
PP
IP54
Pg
Halogen-free
HB
-10 ... 110

Technical data
PP
IP54
Metric
Halogen-free
HB
-10 ... 110

Ordering data

Ordering data

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-G PP HF M10	3240995	10
WP-G PP HF M12	3240996	10
WP-G PP HF M16	3240997	10
WP-G PP HF M20	3240998	10
WP-G PP HF M25	3240999	10
WP-G PP HF M32	3241000	2
WP-G PP HF M40	3241001	2

Type	Order No.	Pcs. / Pkt.
WP-GT PP HF PG7	3241002	10
WP-GT PP HF PG9	3241003	10
WP-GT PP HF PG11	3241004	10
WP-GT PP HF PG16	3241005	10
WP-GT PP HF PG21	3241006	10
WP-GT PP HF PG29	3241007	2
WP-GT PP HF PG36	3241008	2

Type	Order No.	Pcs. / Pkt.
WP-GT PP HF M12	3241010	10
WP-GT PP HF M16	3241011	10
WP-GT PP HF M20	3241012	10
WP-GT PP HF M25	3241013	10
WP-GT PP HF M32	3241014	10
WP-GT PP HF M40	3241015	2

Accessories

Accessories

Accessories

see page 578 onwards

see page 578 onwards

see page 578 onwards

Cable routing, cable protection, cable bundling

Protective hoses made of steel or stainless steel



The metal protective hoses made of galvanized steel or stainless steel offer optimum protection and have a wide range of uses, thanks to the following properties:

- Interlocked, helix-wound profile
- Highly flexible
- High tensile strength and resistance to lateral pressure

These properties make the products suitable for use in the following areas:

- Machine and system engineering
- Vehicle construction
- Ex area according to EN 60079–14 and EN 61241–14
- Shipbuilding
- Rail vehicles
- Automation
- Electrical systems

Notes:
Pcs. / Pkt. specifies the protective hose length in [m].



Stainless steel protective hose, outside diameter of 10 - 45 mm



General data	
Material	Steel, galvanized
Temperature range	-200 ... 220 [°C]

Technical data		
Steel, galvanized		
-200 ... 220		

Description	Color	
Protective hose		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 8	28	silver
14 / 11	34	silver
17 / 14	40	silver
21 / 18	50	silver
27 / 23	63	silver
36 / 31	85	silver
45 / 40	100	silver
Protective hose		
Diameter [mm]	Bending radius [mm]	
Outside/inside	static	
10 / 8	22	silver
14 / 11	25	silver
17 / 14	40	silver
21 / 18	50	silver
27 / 23	63	silver
36 / 31	85	silver
45 / 40	100	silver
End sleeves		
Outside diameter of hose [mm]	Cable diameter [mm]	
10	6.5	brass
14	10	brass
17	12.5	brass
21	16.5	brass
27	21.5	brass
36	29.5	brass
45	38	brass

Ordering data		
Type	Order No.	Pcs. / Pkt.
WP-STEEL ZC 10	3240697	10
WP-STEEL ZC 14	3240865	10
WP-STEEL ZC 17	3240698	10
WP-STEEL ZC 21	3240699	10
WP-STEEL ZC 27	3240866	10
WP-STEEL ZC 36	3240700	10
WP-STEEL ZC 45	3240701	10



Stainless steel protective hose (V2A), outside diameter of 10 - 45 mm



End sleeve for protective hose diameter of 10 - 45 mm

Technical data			Technical data		
Stainless steel 1.4301/AISI 304 -200 ... 600			Brass -40 ... 250		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-STEEL S 10	3240686	10			
WP-STEEL S 14	3240687	10			
WP-STEEL S 17	3240863	10			
WP-STEEL S 21	3240688	10			
WP-STEEL S 27	3240864	10			
WP-STEEL S 36	3240689	10			
WP-STEEL S 45	3240690	10			
			WP-SC BRASS 10	3241065	50
			WP-SC BRASS 14	3241066	50
			WP-SC BRASS 17	3241067	50
			WP-SC BRASS 21	3241068	50
			WP-SC BRASS 27	3241069	25
			WP-SC BRASS 36	3241070	25
			WP-SC BRASS 45	3241071	20

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Screw connections, for protective hoses made of steel or stainless steel



The screw connections are available with or without a rotatable connecting thread and have the following properties:

- Easy mounting of protective hose without tools
- Vibration resistance and high tensile strength, thanks to hose screw-out locking
- Integrated inner sleeve and rotation lock for hose

Rotatable screw connections

- The protective hose can still be rotated after panel mounting, thanks to the special screw connections



Notes:
Inner sleeves and seals are supplied as standard.



IP40 degree of protection, Pg7 - Pg36 thread



General data	
Material	Brass
Degree of protection	IP40
Thread type	Pg
Temperature range	-40 ... 125 [°C]

Technical data	
Material	Brass
Degree of protection	IP40
Thread type	Pg
Temperature range	-40 ... 125

Description	Color
Screw connection, IP40, with Pg thread	
Outside diameter of protective hose [mm]	Cable diameter [mm]
10	6.5
14	10
17	12.5
21	16
27	21.5
36	29
45	38
Screw connection, IP40, with metric thread	
Outside diameter of protective hose [mm]	Cable diameter [mm]
10	6.5
14	10
17	12.5
21	16
27	21.5
36	27.5
45	35

Ordering data			
Type	Order No.	Pcs. / Pkt.	
WP-G BRASS IP40 PG7	3241037	10	
WP-G BRASS IP40 PG9	3241038	10	
WP-G BRASS IP40 PG11	3241039	10	
WP-G BRASS IP40 PG16	3241040	10	
WP-G BRASS IP40 PG21	3241041	10	
WP-G BRASS IP40 PG29	3241042	2	
WP-G BRASS IP40 PG36	3241043	2	

Screw connection, IP40, rotatable, with Pg thread		
Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6	Brass
14	9	Brass
17	12	Brass
21	15.5	Brass
27	20.5	Brass
36	27.5	Brass
45	36.5	Brass

Screw connection, IP40, rotatable, with metric thread		
Outside diameter of protective hose [mm]	Cable diameter [mm]	
10	6	Brass
14	9	Brass
17	12	Brass
21	15.5	Brass
27	20.5	Brass
36	27.5	Brass
45	35	Brass



IP40 degree of protection, M10 - M40 metric thread



IP40 degree of protection, Pg7 - Pg36 thread, rotatable



IP40 degree of protection, M10 - M40 metric thread, rotatable



Technical data
Brass
IP40
Metric
-40 ... 125

Technical data
Brass
IP40
Pg
-40 ... 250

Technical data
Brass
IP40
Metric
-40 ... 250

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

Ordering data		
Type	Order No.	Pcs. / Pkt.

WP-G BRASS IP40 M10	3241044	10
WP-G BRASS IP40 M12	3241045	10
WP-G BRASS IP40 M16	3241046	10
WP-G BRASS IP40 M20	3241047	10
WP-G BRASS IP40 M25	3241048	10
WP-G BRASS IP40 M32	3241049	2
WP-G BRASS IP40 M40	3241050	2

WP-GT BRASS PG7	3241023	10
WP-GT BRASS PG9	3241024	10
WP-GT BRASS PG11	3241025	10
WP-GT BRASS PG16	3241026	10
WP-GT BRASS PG21	3241027	10
WP-GT BRASS PG29	3241028	2
WP-GT BRASS PG36	3241029	2

WP-GT BRASS M10	3241030	10
WP-GT BRASS M12	3241031	10
WP-GT BRASS M16	3241032	10
WP-GT BRASS M20	3241033	10
WP-GT BRASS M25	3241034	10
WP-GT BRASS M32	3241035	2
WP-GT BRASS M40	3241036	2

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Protective hoses made of steel with PVC coating and screw connections

- Optimum protection
- Numerous possible applications
- Tool-free assembly of screw connection and protective hose
- Screw connection for high resistance

Notes:
Pcs. / Pkt. specifies the protective hose length in [m].
Inner sleeves and seals are supplied as standard.



Stainless steel protective hose (V2A), PVC coated, outside diameter of 10 - 45 mm



IP65 degree of protection, Pg7 - Pg36 thread and M10 - M40 metric thread



General data			Technical data			Technical data		
Material			Steel, galvanized/PVC			Brass		
Degree of protection			-			IP65		
Thread type			-			Pg		
Temperature range	[°C]		-25 ... 80			-40 ... 125		
Ordering data			Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Protective hose, in galvanized steel, PVC coated								
Diameter [mm]	Bending radius [mm]							
Outside/inside	static							
10 / 7	95	Black	WP-STEEL PVC C 10	3240867	10			
14 / 10	105	Black	WP-STEEL PVC C 14	3240868	10			
17 / 13	115	Black	WP-STEEL PVC C 17	3240869	10			
21 / 17	110	Black	WP-STEEL PVC C 21	3240870	10			
27 / 22	135	Black	WP-STEEL PVC C 27	3240871	10			
36 / 29	145	Black	WP-STEEL PVC C 36	3240872	10			
45 / 38	215	Black	WP-STEEL PVC C 45	3240873	10			
End sleeves, in brass								
Outside diameter of hose [mm]	Cable diameter [mm]							
10	6	Brass	WP-SC BRASS WP PVC 10	3241072	50			
14	8.5	Brass	WP-SC BRASS WP PVC 14	3241073	50			
17	11.5	Brass	WP-SC BRASS WP PVC 17	3241074	50			
21	15.5	Brass	WP-SC BRASS WP PVC 21	3241075	50			
27	20.5	Brass	WP-SC BRASS WP PVC 27	3241076	25			
36	27.5	Brass	WP-SC BRASS WP PVC 36	3241077	25			
45	36.5	Brass	WP-SC BRASS WP PVC 45	3241078	20			
Screw connection, IP65, with Pg thread								
Outside diameter of protective hose [mm]	Cable diameter [mm]							
10	6	Brass				WP-G BRASS IP65 PG7	3241051	10
14	8.5	Brass				WP-G BRASS IP65 PG9	3241052	10
17	11.5	Brass				WP-G BRASS IP65 PG11	3241053	10
21	15.5	Brass				WP-G BRASS IP65 PG16	3241054	10
27	20.5	Brass				WP-G BRASS IP65 PG21	3241055	10
36	27.5	Brass				WP-G BRASS IP65 PG29	3241056	2
45	35	Brass				WP-G BRASS IP65 PG36	3241057	2
Screw connection, IP65, with metric thread								
Outside diameter of protective hose [mm]	Cable diameter [mm]							
10	6	Brass				WP-G BRASS IP65 M10	3241058	10
14	8.5	Brass				WP-G BRASS IP65 M12	3241059	10
17	11.5	Brass				WP-G BRASS IP65 M16	3241060	10
21	15.5	Brass				WP-G BRASS IP65 M20	3241061	10
27	20.5	Brass				WP-G BRASS IP65 M25	3241062	10
36	27.5	Brass				WP-G BRASS IP65 M32	3241063	2
45	35	Brass				WP-G BRASS IP65 M40	3241064	2

Spiral hoses



Easy bundling and routing of cables and conductors

- Fast and easy to use
- Can be retrofitted
- The spiral structure means that individual conductors and cables can be led out at any point
- Offer protection under light mechanical strain

Notes:

Pcs. / Pkt. indicates the spiral hose length in [m].



Spiral hose, for bundle diameters of 2 mm - 150 mm

General data

Material	PE
Components	Free from silicone and halogen
Inflammability class according to UL 94	HB
Temperature range	-50 ... 85 [°C]

Technical data

Material	PE
Components	Free from silicone and halogen
Inflammability class according to UL 94	HB
Temperature range	-50 ... 85 [°C]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Spiral hose, for bundle diameters				
2 - 15 mm	Transparent	WG-S HF 15	3241109	50
4 - 20 mm	Transparent	WG-S HF 20	3241111	25
7 - 40 mm	Transparent	WG-S HF 40	3241113	25
12 - 50 mm	Transparent	WG-S HF 50	3241115	25
13 - 70 mm	Transparent	WG-S HF 70	3241117	25
15 - 80 mm	Transparent	WG-S HF 80	3241119	20
20 - 120 mm	Transparent	WG-S HF 120	3241121	25
25 - 150 mm	Transparent	WG-S HF 150	3241123	20
Spiral hose, for bundle diameters				
2 - 15 mm	Black	WG-S HF 15 BK	3241110	50
4 - 20 mm	Black	WG-S HF 20 BK	3241112	25
7 - 40 mm	Black	WG-S HF 40 BK	3241114	25
12 - 50 mm	Black	WG-S HF 50 BK	3241116	25
13 - 70 mm	Black	WG-S HF 70 BK	3241118	25
15 - 80 mm	Black	WG-S HF 80 BK	3241120	20
20 - 120 mm	Black	WG-S HF 120 BK	3241122	25
25 - 150 mm	Black	WG-S HF 150 BK	3241124	20

Electrician's scissors, high cutting performance, thanks to micro-serrated cutting area, suitable for copper, aluminum, Kevlar fibers, and plastic, two-component non-slip soft-grip handles, ergonomic design, adjustable screw joint

Accessories

CUTFOX-ES	1212621	1
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Cable routing, cable protection, cable bundling

Accessories for protective hose mounting

The WP-BASE C... protective hose holders with cover can be attached using a screw.

- An integrated rib fastening also helps to relieve the strain on the protective hose
- The base of the holder is designed so that it can even be pushed onto a C DIN rail
- The engagement pins enable hose holders of different sizes to be arranged alongside each other

WP-BASE HF... protective hose clips:

- Galvanized steel locking latch with rubber profile
- Screw mounting

WP-BASE ... fixing bracket:

- With two mounting holes according to DIN 46320
- Protective hose feed-through can be attached to the side of the panel
- Pg or metric protective hose screw connections can be mounted on a bracket



Protective hose with cover



General data		
Material		
PA		
Description	Color	
Protective hose holder with cover, screwable, made of plastic		
Outside diameter of protective hose [mm]	Hole diameter [mm]	
10	10	black
13	13	black
15.8	15.8	black
21.2	21.2	black
28.5	28.2	black
34.5	34.5	black
42.5	42.5	black
Protective hose clip , screwable		
Outside diameter of protective hose [mm]	Hole diameter [mm]	
10	10	silver/black
13	13	silver/black
14	14	silver/black
15.8	15.8	silver/black
17	17	silver/black
22	22	silver/black
29	29	silver/black
36	37	silver/black
45	45	silver/black
Fixing bracket , screwable		
Screw connection	Hole diameter [mm]	
Pg16	23	silver
Pg21	29	silver
Pg29	37.5	silver
Pg36	47.5	silver
Fixing bracket , screwable		
Screw connection	Hole diameter [mm]	
M16	17	silver
M20	21	silver
M25	26	silver
M32	33	silver
M40	43	silver

Technical data

PA

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-BASE C PA HF 10,0 BK	3240958	50
WP-BASE C PA HF 13,0 BK	3240959	50
WP-BASE C PA HF 15,8 BK	3240960	50
WP-BASE C PA HF 21,2 BK	3240961	50
WP-BASE C PA HF 28,2 BK	3240962	25
WP-BASE C PA HF 34,5 BK	3240963	25
WP-BASE C PA HF 42,5 BK	3240964	25



Protective hose clip



Fixing bracket, screw version,
for Pg screw connection



Fixing bracket, screw version,
for metric screw connection

Technical data
Steel, galvanized

Ordering data		
Type	Order No.	Pcs. / Pkt.

WP-BASE HF 9-10	3240965	50
WP-BASE HF 13	3240966	50
WP-BASE HF 14	3240967	50
WP-BASE HF 15,8	3240968	50
WP-BASE HF 17	3240969	50
WP-BASE HF 22	3240970	50
WP-BASE HF 29	3240971	50
WP-BASE HF 37	3240972	50
WP-BASE HF 45	3240973	25

Technical data
Steel, galvanized

Ordering data		
Type	Order No.	Pcs. / Pkt.

WP-BASE A PG16	3241079	25
WP-BASE A PG21	3241080	25
WP-BASE A PG29	3241081	25
WP-BASE A PG36	3241082	25

Technical data
Steel, galvanized

Ordering data		
Type	Order No.	Pcs. / Pkt.

WP-BASE A M16	3241083	25
WP-BASE A M20	3241084	25
WP-BASE A M25	3241085	25
WP-BASE A M32	3241086	25
WP-BASE A M40	3241087	25

Accessories for protective hose mounting



Counter nut, M12 - M40, plastic

WP-CN ...

The counter nuts are used to lock protective hose screw connections in the case of bore holes without a thread.

- Counter nuts made of brass or plastic
- The fiberglass-reinforced polyamide ensures a high degree of mechanical stability
- Metric thread according to EN 50262, making the counter nut suitable for universal use

General data

Material

Technical data

Polyamide fiberglass reinforced

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Counter nut, plastic, for protective hose screw connections with metric thread				
for M12	gray	WP-CN PA M12	3241132	100
for M16	gray	WP-CN PA M16	3241133	100
for M20	gray	WP-CN PA M20	3241134	100
for M25	gray	WP-CN PA M25	3241135	100
for M32	gray	WP-CN PA M32	3241136	100
for M40	gray	WP-CN PA M40	3241137	50
Counter nut, plastic, for protective hose screw connections with Pg thread				
for Pg7	gray			
for Pg9	gray			
for Pg11	gray			
for Pg16	gray			
for Pg21	gray			
for Pg29	gray			
for Pg36	gray			
Counter nut, nickel-plated brass, for protective hose screw connections with metric thread				
for M10	silver			
for M12	silver			
for M16	silver			
for M20	silver			
for M25	silver			
for M32	silver			
for M40	silver			
Counter nut, nickel-plated brass, for protective hose screw connections with Pg thread				
for Pg7	silver			
for Pg9	silver			
for Pg11	silver			
for Pg16	silver			
for Pg21	silver			
for Pg29	silver			
for Pg36	silver			



Counter nut, Pg7 - Pg36, plastic



Counter nut, M10 - M40, brass



Counter nut, Pg7 - Pg36, brass

Technical data

Polyamide fiberglass reinforced

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-CN PA PG7	3241138	100
WP-CN PA PG9	3241139	100
WP-CN PA PG11	3241140	100
WP-CN PA PG16	3241141	100
WP-CN PA PG21	3241142	100
WP-CN PA PG29	3241143	100
WP-CN PA PG36	3241144	50

Technical data

Nickel-plated brass

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-CN BRASS M10	3241145	100
WP-CN BRASS M12	3241146	100
WP-CN BRASS M16	3241147	100
WP-CN BRASS M20	3241148	100
WP-CN BRASS M25	3241149	100
WP-CN BRASS M32	3241150	100
WP-CN BRASS M40	3241151	50

Technical data

Nickel-plated brass

Ordering data

Type	Order No.	Pcs. / Pkt.
WP-CN BRASS PG7	3241152	100
WP-CN BRASS PG9	3241153	100
WP-CN BRASS PG11	3241154	100
WP-CN BRASS PG16	3241155	100
WP-CN BRASS PG21	3241156	100
WP-CN BRASS PG29	3241157	100
WP-CN BRASS PG36	3241158	50

Cable routing, cable protection, cable bundling

Accessories for protective hose mounting



Flat gasket made from Perbunan

WP-FS ...

The Perbunan flat sealing rings are used to seal protective hose screw connections on uneven surfaces. They are inserted between the hose screw connection and the surface, thereby achieving degrees of protection up to IP68.

WP-FS HF...

The Centellen flat sealing rings also provide an optimum seal on uneven surfaces. As well as having IP68 protection and high mechanical stability, the sealing rings are also UV resistant and halogen-free. This enables them to be used outdoors. Properties:

- Resistant to oil, seal against dust and water; UV resistant, halogen-free, high mechanical stability

WP-OR...

The properties of the Perbunan O-rings, such as their resistance to oil and seal against water and dust, mean that they can be used in a wide range of applications.

General data

Material

Technical data

Perbunan

Ordering data

Description	Color
Flat gasket, Perbunan , for protective hose screw connections with metric thread	
for M10	black
for M12	black
for M16	black
for M20	black
for M25	black
for M32	black
for M40	black
Flat gasket, Perbunan , for protective hose screw connections with Pg thread	
for Pg7	black
for Pg9	black
for Pg11	black
for Pg16	black
for Pg21	black
for Pg29	black
for Pg36	black
Flat gasket, Centellen , for protective hose screw connections with metric thread	
for M10	green
for M12	green
for M16	green
for M20	green
for M25	green
for M32	green
for M40	green
Flat gasket, Centellen , for protective hose screw connections with Pg thread	
for Pg7	green
for Pg9	green
for Pg11	green
for Pg16	green
for Pg21	green
for Pg29	green
for Pg36	green
O-ring, Perbunan , for protective hose screw connections with metric thread	
for M10	black
for M12	black
for M16	black
for M20	black
for M25	black
for M32	black
for M40	black
O-ring, Perbunan , for protective hose screw connections with Pg thread	
for Pg7	black
for Pg9	black
for Pg11	black
for Pg16	black
for Pg21	black
for Pg29	black
for Pg36	black

Type	Order No.	Pcs. / Pkt.
WP-FS IP68 M10		
WP-FS IP68 M12	3241159	50
WP-FS IP68 M16	3241160	50
WP-FS IP68 M20	3241161	50
WP-FS IP68 M25	3241162	50
WP-FS IP68 M32	3241163	50
WP-FS IP68 M40	3241164	25
WP-FS IP68 M10	3241165	25
WP-FS IP68 PG7		
WP-FS IP68 PG9	3241166	50
WP-FS IP68 PG11	3241167	50
WP-FS IP68 PG16	3241168	50
WP-FS IP68 PG21	3241169	50
WP-FS IP68 PG29	3241170	25
WP-FS IP68 PG36	3241171	25
WP-FS IP68 PG36	3241172	25



Flat gasket made from Centellen



O-ring made from Perbunan

Technical data			Technical data		
Centellen			Perbunan		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WP-FS HF IP68 M10	3241173	50			
WP-FS HF IP68 M12	3241174	50			
WP-FS HF IP68 M16	3241175	50			
WP-FS HF IP68 M20	3241176	50			
WP-FS HF IP68 M25	3241177	50			
WP-FS HF IP68 M32	3241178	25			
WP-FS HF IP68 M40	3241179	25			
WP-FS HF IP68 PG7	3241180	50			
WP-FS HF IP68 PG9	3241181	50			
WP-FS HF IP68 PG11	3241182	50			
WP-FS HF IP68 PG16	3241183	50			
WP-FS HF IP68 PG21	3241184	25			
WP-FS HF IP68 PG29	3241185	25			
WP-FS HF IP68 PG36	3241186	25			
			WP-OR M10	3241187	50
			WP-OR M12	3241188	50
			WP-OR M16	3241189	50
			WP-OR M20	3241190	50
			WP-OR M25	3241191	50
			WP-OR M32	3241192	25
			WP-OR M40	3241193	25
			WP-OR PG7	3241194	50
			WP-OR PG9	3241195	50
			WP-OR PG11	3241196	50
			WP-OR PG16	3241197	50
			WP-OR PG21	3241198	25
			WP-OR PG29	3241199	25
			WP-OR PG36	3241200	25

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Plastic cable marker for insert labels, for assembly with cable binders



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements

Notes:
For corresponding cable binders, see from page 588.



For insert labels with lettering field size 29 x 8 mm, for cable diameters > 10 mm

General data	
Material	Polyethylene
Temperature range	-40 ... 80 [°C]
Components	Free from silicone and halogen

Technical data		
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Description	Color
Plastic cable markers for insert labels , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 10 ... 25 mm, lettering field size: 29 x 8 mm	transparent

Plastic cable markers for insert labels , with cable binders with a pointed end, can be marked with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm	transparent
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Cable and conductor markers for insert labels , can be marked with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	transparent
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Cable and conductor markers for labels , can be marked with EML or EMLC, diameter of 1 - 20 mm, lettering field size: 20 x 8 mm	white
	white

Ordering data		
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Type	Order No.	Pcs. / Pkt.
KMK	1005208	100

Insert strips for laser printers , DIN A4, perforated
Lettering field size: 29 x 8 mm, 1 sheet = 174 labels
Lettering field size: 40 x 17 mm, 1 sheet = 56 labels
Lettering field size: 24 x 4 mm, 1 sheet = 488 labels

Insert labels for thermal transfer printers
Lettering field size: 29 x 8 mm, 5400 labels per roll
Lettering field size: 40 x 17 mm, 2300 labels per roll
Lettering field size: 24 x 4 mm, 5000 labels p. roll

UniSheet , 0.5 mm thick
48-section, lettering field size: 29 x 8 mm
16-section, lettering field size: 40 x 17 mm
Textile label , lettering field size: 20 x 8 mm
2500 labels per roll
2500 labels per roll

Accessories		
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ESL 29X8	0808257	10
EMT (29X8)R	0817277	1
US-EMP (29X8)	0829436	10





Insert label, with lettering field size 40 x 17 mm, for cable diameters > 16 mm



For insert labels with lettering field size 24 x 4 mm, for cable diameters > 1 mm



For adhesive labels, with lettering field size 20 x 8 mm, for cable diameters > 1 mm

Technical data

Polyethylene
-40 ... 80
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK 3	1005211	50

Accessories

ESL 40X17	0808095	10
EMT (40X17)R	0817293	1
US-EMP (40X17)	0829437	10

Technical data

PA
-40 ... 100
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
LM	1004377	100

Accessories

ESL 24X4	0808231	10
EMT (24X4)R	0816265	1

Technical data

PA
-40 ... 100
Free from silicone and halogen

Ordering data

Type	Order No.	Pcs. / Pkt.
KME	0807083	50

Accessories

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1

Cable routing, cable protection, cable bundling

Plastic cable markers for insert labels, for assembly with cable binders



- KMK HP ... plastic cable markers for marking and bundling conductors and cables indoors
- Inflammability class V0 acc. to UL 94
- The KMK HP... cable markers are particularly suitable for use in the railway industry, traffic technology, and building technology thanks to their outstanding material properties
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:
For corresponding cable binders, see from page 588.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 125 [°C]
Components	Halogen-free

Technical data		
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Description	Color
Cable marker carrier for cable binder assembly	transparent

Ordering data		
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Type	Order No.	Pcs. / Pkt.
KMK HP (25X6)	0830720	100

UniCard , insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser
Lettering field size: 25 x 6 mm, 15-section
Lettering field size: 29 x 8 mm, 15-section
Lettering field size: 60 x 15 mm, 3-section
Lettering field size: 40 x 17 mm, 3-section

Accessories		
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UCT-EMP (25X6)	1014117	10
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UniSheet , 0.5 mm thick, inflammability class V0 according to UL 94
84-section, lettering field size: 25 x 6 mm
48-section, lettering field size: 29 x 8 mm
9-section, lettering field size: 60 x 15 mm
16-section, lettering field size: 40 x 17 mm

US-EMP (25X6)-1	0802754	10
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Insert labels for thermal transfer printer, halogen-free

Lettering field size: 25 x 6 mm, 5000 labels per roll
Lettering field size: 29 x 8 mm, 5400 labels per roll
Lettering field size: 60 x 15 mm, 2500 labels per roll
Lettering field size: 40 x 17 mm, 2300 labels per roll

EMT (25X6)R	0817264	1
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Cable binder , inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]
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35 / 130	WT-HP HF 3,6X140	0830982	100
50 / 220	WT-HP HF 4,8X200	0830983	100
79 / 220	WT-HP HF 4,5X290	0830984	100

Magazine , for THERMOMARK CARD ..., for accommodating UCT-EMP ...	THERMOMARK CARD-UCT-MAG26	0802988	1
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Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (29X8)	0830721	100

Accessories		
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UCT-EMP (29X8)	1014118	10
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US-EMP (29X8)	0829436	10
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EMT (29X8)R	0817277	1
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WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (60X15)	0830722	50

Accessories		
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UCT-EMP (60X15)	1014119	10
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US-EMP (60X15)	0828781	10
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EMT (60X15)R	0801846	1
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WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PC		
V0		
-40 ... 125		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK HP (40X17)	0830723	50

Accessories		
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UCT-EMP (40X17)	1014120	10
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US-EMP (40X17)	0829437	10
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EMT (40X17)R	0817293	1
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WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Cable routing, cable protection, cable bundling

Plastic cable markers for insert labels, for assembly with cable binders



- KMK UV ... plastic cable markers for marking and bundling conductors and cables outdoors
- The KMK UV... cable markers are ultra-transparent, impact resistant, and have excellent weathering resistance. At the same time, they also possess outstanding chemical resistance
- The KMK... versions have eyelets and are attached with cable binders
- The printed insert label is protected from dirt by the sealing cap
- Marking service: Phoenix Contact can custom-mark all insert labels for plastic cable markers in accordance with your requirements



Notes:
For corresponding cable binders, see from page 588.
1) WT-UV HF...BK cable binders are weatherproof and UV resistant according to ISO 4892 (after QUV-B 600 hours) for up to 10 years.



Lettering field size: 25 x 6 mm, for cable diameter > 6 mm

General data	
Material	PA
Inflammability class according to UL 94	HB
Temperature range	-40 ... 100 [°C]
Components	Halogen-free

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Description	Color
Cable marker carrier for cable binder assembly	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (25X6)	1014106	100

UniCard, insert strip for KMK... cable marker carriers, can be marked with THERMOMARK CARD..., BLUEMARK CLED, and TOPMARK Laser
 Lettering field size: 25 x 6 mm, 15-section
 Lettering field size: 29 x 8 mm, 15-section
 Lettering field size: 60 x 15 mm, 3-section
 Lettering field size: 40 x 17 mm, 3-section

Accessories		
UCT-EMP (25X6)	1014117	10

UniSheet, 0.5 mm thick, inflammability class V0 according to UL 94
 84-section, lettering field size: 25 x 6 mm
 48-section, lettering field size: 29 x 8 mm
 9-section, lettering field size: 60 x 15 mm
 16-section, lettering field size: 40 x 17 mm

US-EMP (25X6)-1	0802754	10
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Insert labels for thermal transfer printer, halogen-free
 Lettering field size: 25 x 6 mm, 5000 labels per roll
 Lettering field size: 29 x 8 mm, 5400 labels per roll
 Lettering field size: 60 x 15 mm, 2500 labels per roll
 Lettering field size: 40 x 17 mm, 2300 labels per roll

EMT (25X6)R	0817264	1
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Cable binder, halogen-free, inflammability class according to UL 94: V2, maximum bundle Ø [mm] / min. tensile strength [N]1)

35 / 130
 50 / 220
 79 / 220

WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100

Magazine, for THERMOMARK CARD ..., for accommodating UCT-EMP ...

THERMOMARK CARD-UCT-MAG26	0802988	1
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Lettering field size: 29 x 8 mm,
for cable diameter > 6 mm



Lettering field size: 60 x 15 mm,
for cable diameter > 9 mm



Lettering field size: 40 x 17 mm,
for cable diameter > 9 mm

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (29X8)	1014107	100

Accessories		
UCT-EMP (29X8)	1014118	10
US-EMP (29X8)	0829436	10
EMT (29X8)R	0817277	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (60X15)	1014108	50

Accessories		
UCT-EMP (60X15)	1014119	10
US-EMP (60X15)	0828781	10
EMT (60X15)R	0801846	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Technical data		
PA		
HB		
-40 ... 100		
Halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
KMK UV (40X17)	1014109	50

Accessories		
UCT-EMP (40X17)	1014120	10
US-EMP (40X17)	0829437	10
EMT (40X17)R	0817293	1
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
THERMOMARK CARD-UCT-MAG26	0802988	1

Plastic cable binders



- For bundling and fastening conductors and cables
- Can be used indoors and outdoors even under unfavorable industrial conditions
- With the UNIFOX-CT ... cable binder tool, the cable binders can be easily tightened and cut off flush in one step
- Cable binders are easy to use, thanks to their optimized geometries
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C
- Comprehensive approvals
- **Designation example:**
WT-HF 2,5X98
Cable binder width: 2.5 mm
Cable binder length: 98 mm



General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	transparent	WT-HF 2,5X98	3240732	100
40 / 80	transparent	WT-HF 2,6X160	3240736	100
52 / 80	transparent	WT-HF 2,6X200	3240740	100
35 / 130	transparent	WT-HF 3,6X140	3240744	100
50 / 130	transparent	WT-HF 3,6X200	3240748	100
80 / 130	transparent	WT-HF 3,6X290	3240752	100
40 / 220	transparent	WT-HF 4,5X160	3240756	100
50 / 220	transparent	WT-HF 4,5X200	3240760	100
79 / 220	transparent	WT-HF 4,5X290	3240764	100
100 / 220	transparent	WT-HF 4,5X360	3240768	100
115 / 220	transparent	WT-HF 4,5X430	3240770	100
80 / 540	transparent	WT-HF 7,8X300	3240772	100
100 / 540	transparent	WT-HF 7,8X365	3240774	100
158 / 540	transparent	WT-HF 7,8X540	3240719	100
233 / 700	transparent	WT-HF 9X780	3240778	100
143 / 1080	transparent	WT-HF 12,6X850	3240730	50
302 / 1080	transparent	WT-HF 12,6X1000	3240728	50
Cable binder, large pack, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	transparent	WT-HF 2,5X98-L	3240735	1000
40 / 80	transparent	WT-HF 2,6X160-L	3240739	1000
52 / 80	transparent	WT-HF 2,6X200-L	3240743	1000
35 / 130	transparent	WT-HF 3,6X140-L	3240747	1000
50 / 130	transparent	WT-HF 3,6X200-L	3240751	1000
80 / 130	transparent	WT-HF 3,6X290-L	3240755	500
40 / 220	transparent	WT-HF 4,5X160-L	3240759	1000
50 / 220	transparent	WT-HF 4,5X200-L	3240763	1000

Cable binder pliers, for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm

Professional cable binder tools, for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness

Ergonomically designed grip with comfortable tension force adjustment



Technical data	
Material	PA 6.6
Free from silicone and halogen	
V2	
Temperature range	-40 ... 85

Ordering data			
Type	Order No.	Pcs. / Pkt.	
WT-HF 2,5X98	3240732	100	
WT-HF 2,6X160	3240736	100	
WT-HF 2,6X200	3240740	100	
WT-HF 3,6X140	3240744	100	
WT-HF 3,6X200	3240748	100	
WT-HF 3,6X290	3240752	100	
WT-HF 4,5X160	3240756	100	
WT-HF 4,5X200	3240760	100	
WT-HF 4,5X290	3240764	100	
WT-HF 4,5X360	3240768	100	
WT-HF 4,5X430	3240770	100	
WT-HF 7,8X300	3240772	100	
WT-HF 7,8X365	3240774	100	
WT-HF 7,8X540	3240719	100	
WT-HF 9X780	3240778	100	
WT-HF 12,6X850	3240730	50	
WT-HF 12,6X1000	3240728	50	
WT-HF 2,5X98-L	3240735	1000	
WT-HF 2,6X160-L	3240739	1000	
WT-HF 2,6X200-L	3240743	1000	
WT-HF 3,6X140-L	3240747	1000	
WT-HF 3,6X200-L	3240751	1000	
WT-HF 3,6X290-L	3240755	500	
WT-HF 4,5X160-L	3240759	1000	
WT-HF 4,5X200-L	3240763	1000	

Accessories		
	Order No.	Pcs. / Pkt.
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1



Cable tie length of 98 - 1000 mm

Plastic cable binders



- The black cable binders are UV stabilized by adding carbon black and are suitable for use in outdoor systems according to ISO 4895 (QUV-B 150 hours) for up to three years
- Temperature range: briefly up to 110°C
- Comprehensive approvals



Cable tie length of 98 - 1000 mm



General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Technical data	
Material	PA 6.6
Free from silicone and halogen	Free from silicone and halogen
V2	
Temperature range	-40 ... 85

Description	Color
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
40 / 80	black
52 / 80	black
35 / 130	black
50 / 130	black
80 / 130	black
40 / 220	black
50 / 220	black
79 / 220	black
100 / 220	black
115 / 220	black
80 / 540	black
100 / 540	black
158 / 540	black
233 / 700	black
143 / 1080	black
302 / 1080	black
Cable binder, large pack , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
40 / 80	black
52 / 80	black
35 / 130	black
50 / 130	black
80 / 130	black
40 / 220	black
50 / 220	black
Cable binder , inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]	
35 / 130	transparent
79 / 220	transparent
50 / 220	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HF 2,5X98 BK	3240733	100
WT-HF 2,6X160 BK	3240737	100
WT-HF 2,6X200 BK	3240741	100
WT-HF 3,6X140 BK	3240745	100
WT-HF 3,6X200 BK	3240749	100
WT-HF 3,6X290 BK	3240753	100
WT-HF 4,5X160 BK	3240757	100
WT-HF 4,5X200 BK	3240761	100
WT-HF 4,5X290 BK	3240765	100
WT-HF 4,5X360 BK	3240769	100
WT-HF 4,5X430 BK	3240771	100
WT-HF 7,8X300 BK	3240773	100
WT-HF 7,8X365 BK	3240775	100
WT-HF 7,8X540 BK	3240721	100
WT-HF 9X780 BK	3240779	100
WT-HF 12,6X850 BK	3240731	50
WT-HF 12,6X1000 BK	3240729	50
WT-HF 2,5X98 BK-L	3240734	1000
WT-HF 2,6X160 BK-L	3240738	1000
WT-HF 2,6X200 BK-L	3240742	1000
WT-HF 3,6X140 BK-L	3240746	1000
WT-HF 3,6X200 BK-L	3240750	1000
WT-HF 3,6X290 BK-L	3240754	500
WT-HF 4,5X160 BK-L	3240758	1000
WT-HF 4,5X200 BK-L	3240762	1000
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,5X290	0830984	100
WT-HP HF 4,8X200	0830983	100

Cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm
Professional cable binder tools , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness
Ergonomically designed grip with comfortable tension force adjustment

Accessories		
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binders for outdoor use



The WT-UV HF ... cable binders are specially designed for outdoor use and offer the following features:

- Weatherproof and UV resistant according to ISO 4892 (QUV-B 600 hours) for up to ten years
- Cable binders are easy to use, thanks to their optimum geometries
- Optimum head shape for high tensile forces

- Halogen-free/silicone-free
- Constantly high temperature resistance up to 105°C
- **Designation example:**
WT-UV HF 2,5X98 BK
Cable binder width: 2.5 mm
Cable binder length: 98 mm



Cable tie length of 98 - 365 mm

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105

Description	Color
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
35 / 130	black
50 / 130	black
50 / 220	black
79 / 220	black
100 / 540	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-UV HF 2,5X98 BK	3240831	100
WT-UV HF 3,6X140 BK	3240832	100
WT-UV HF 3,6X200 BK	3240833	100
WT-UV HF 4,5X200 BK	3240834	100
WT-UV HF 4,5X290 BK	3240835	100
WT-UV HF 7,8X365 BK	3240837	100

Thanks to their UL 94 V0 inflammability class and absence of halogen, the WT-HP HF.. cable binders are particularly suitable for use in the rail industry.

- **Designation example:**
WT-HP HF 3,6x140
Cable binder width: 3.6 mm
Cable binder length: 140 mm



General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V0
Temperature range	-40 ... 85 [°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V0
Temperature range	-40 ... 85

Description	Color
Cable binder , inflammability class according to UL 94: V0, halogen-free, temperature range: -40°C ... 85°C, maximum bundle Ø [mm]/minimum tensile strength [N]	
35 / 130	transparent
50 / 220	transparent
79 / 220	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HP HF 3,6X140	0830982	100
WT-HP HF 4,8X200	0830983	100
WT-HP HF 4,5X290	0830984	100

Cable binders for use under high temperatures



The WT-HT HF ... cable binders are specially designed for high-temperature applications and offer the following features:

- Constantly high temperature resistance up to 125°C and briefly up to 145°C
- Cable binders are easy to use, thanks to their optimum geometries
- Black cable binders are UV stabilized
- Special head shape for high tensile forces
- Halogen-free/silicone-free

Designation example:
WT-HT HF 2,5X98

Cable binder width: 2.5 mm
Cable binder length: 98 mm



Cable tie length of 98 - 365 mm

General data	
Material	
Components	
Inflammability class according to UL 94	
Temperature range	[°C]

Technical data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 125

Description	Color
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	transparent
35 / 130	transparent
50 / 130	transparent
50 / 220	transparent
79 / 220	transparent
100 / 540	transparent
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]	
21 / 80	black
35 / 130	black
50 / 130	black
50 / 220	black
79 / 220	black
100 / 540	black

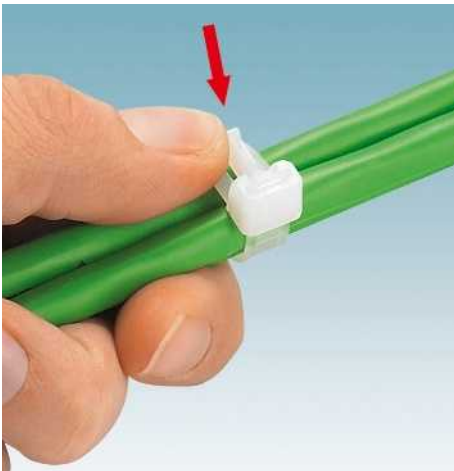
Ordering data		
Type	Order No.	Pcs. / Pkt.
WT-HT HF 2,5X98	3240780	100
WT-HT HF 3,6X140	3240782	100
WT-HT HF 3,6X200	3240784	100
WT-HT HF 4,5X200	3240786	100
WT-HT HF 4,5X290	3240788	100
WT-HT HF 7,8X365	3240792	100
WT-HT HF 2,5X98 BK	3240781	100
WT-HT HF 3,6X140 BK	3240783	100
WT-HT HF 3,6X200 BK	3240785	100
WT-HT HF 4,5X200 BK	3240787	100
WT-HT HF 4,5X290 BK	3240789	100
WT-HT HF 7,8X365 BK	3240793	100

Cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, for a material thickness of up to 1.6 mm
Professional cable binder tools , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm material thickness
Ergonomically designed grip with comfortable tension force adjustment

Accessories		
Type	Order No.	Pcs. / Pkt.
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1

Cable routing, cable protection, cable bundling

Cable binders for reopening



The WT-D HF ... cable binders are ideal for temporary mounting and offer the following features:

- Can be removed easily without tools and reused
- Cable binders are easy to use, thanks to their optimum geometries
- Halogen-free/silicone-free



Cable tie length of 200 - 350 mm

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 80 [°C]

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 80 [°C]

Description	Color
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]	
50 / 220	transparent
65 / 220	transparent
100 / 220	transparent
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]	
50 / 220	black
65 / 220	black
100 / 220	black

Ordering data

Type	Order No.	Pcs. / Pkt.
WT-D HF 7,5X200	3240712	100
WT-D HF 7,5X250	3240714	100
WT-D HF 7,5X350	3240716	100
WT-D HF 7,5X200 BK	3240713	100
WT-D HF 7,5X250 BK	3240715	100
WT-D HF 7,5X350 BK	3240717	100

Cable binders with lug for direct rivet or screw mounting



The WT-E HF ... cable binders with lug for direct mounting offer the following features:

- Space saving, thanks to molded fastening lug
- Secure hold, thanks to screw or rivet fixing
- Easy to use
- Halogen-free/silicone-free
- Optimum head shape for high tensile forces
- Temperature range: briefly up to 110°C

Notes:
For corresponding cable binder pliers, see previous page.



Cable tie length of 150 - 380 mm

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data

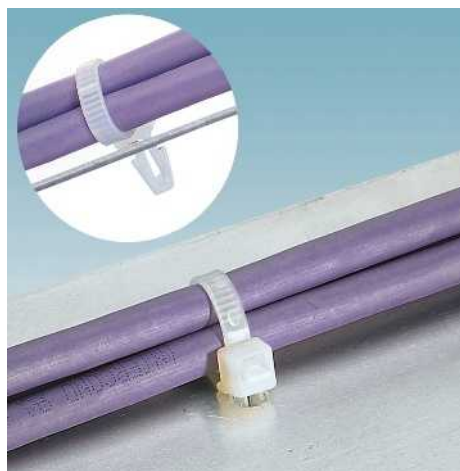
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Description	Color
Cable binder, maximum bundle Ø [mm]/minimum tensile strength [N]	
32 / 130 hole diameter 4.5 mm	transparent
50 / 220 hole diameter 5.2 mm	transparent
44 / 540 hole diameter 6.5 mm	transparent
75 / 540 hole diameter 6.5 mm	transparent
104 / 540 hole diameter 6.5 mm	transparent

Ordering data

Type	Order No.	Pcs. / Pkt.
WT-E HF 3,6X150	3240718	100
WT-E HF 4,8X200	3240720	100
WT-E HF 7,8X200	3240722	100
WT-E HF 7,8X300	3240724	100
WT-E HF 7,8X380	3240726	100

Cable binders with body-bound rivet for direct mounting



Notes:
For corresponding cable binder pliers, see previous page.

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Cable tie length of 150 - 200 mm

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85

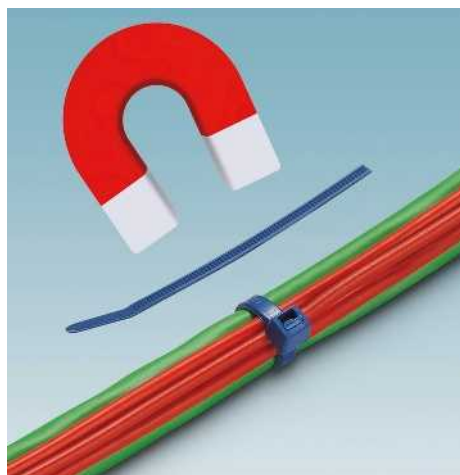
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binder , maximum bundle Ø [mm]/minimum tensile strength [N]				
38 / 130 hole diameter 5.2 mm	transparent	WT-R HF 3,6X150	3240801	100
50 / 220 hole diameter 6.3 mm	transparent	WT-R HF 4,8X200	3240803	100

The WT-R HF ... cable binders for straightforward direct mounting offer the following features:

- Space saving, thanks to molded body-bound rivet
- Easy to plug in and optimum hold in standard drill hole
- Optimum head shape for high tensile forces
- Halogen-free/silicone-free

Detectable cable binders



Notes:
For corresponding cable binder pliers, see previous page.

General data	
Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Cable tie length of 98 - 365 mm

Technical data

Material	PA 6.6
Components	Free from silicone and halogen
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binder , with metal portions, maximum bundle Ø [mm]/minimum tensile strength [N]				
21 / 80	blue	WT-ID HF 2,5X98 BU	3240794	100
35 / 130	blue	WT-ID HF 3,5X140 BU	3240795	100
50 / 130	blue	WT-ID HF 3,5X200 BU	3240796	100
50 / 220	blue	WT-ID HF 4,5X200 BU	3240797	100
79 / 220	blue	WT-ID HF 4,5X290 BU	3240798	100
100 / 540	blue	WT-ID HF 7,5X365 BU	3240800	100

The WT-ID HF ... cable binders are specially designed for production processes in the food, pharmaceutical and chemical industries and offer the following features:

- High level of protection against contamination in the production process
- Detectable using X-ray units or metal detectors
- Magnetic
- Easy to see
- Corrosion-free

Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binders made of stainless steel AISI 304 (V2A)



The WT-STEEL S ... cable binders are especially suited to use outdoors and in the chemical industry. They offer the following features:

- Secure, permanent attachment and a long service life
- Corrosion resistant
- Chemical resistance
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use and self-locking
- Anti-magnetic
- Halogen-free/silicone-free

Notes:
For corresponding stainless steel cable markers, see 212



Cable tie length of 150 - 1067 mm



General data	
Material	Stainless steel 1.4301/AISI 304
Temperature range	-80 ... 538 [°C]

Technical data		
Stainless steel 1.4301/AISI 304		
-80 ... 538		

Description	Color
Cable binder, made of stainless steel (AISI 304), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver
69 / 890	silver
102 / 890	silver
152 / 890	silver
203 / 890	silver
254 / 890	silver
305 / 890	silver
Cable binder, made of stainless steel (AISI 304), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
69 / 1335	silver
102 / 1335	silver
152 / 1335	silver
203 / 1335	silver
254 / 1335	silver
305 / 1335	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.

WT-STEEL S 4,6X150	3240807	100
WT-STEEL S 4,6X201	3240808	100
WT-STEEL S 4,6X259	3240809	100
WT-STEEL S 4,6X360	3240810	100
WT-STEEL S 4,6X520	3240811	100
WT-STEEL S 4,6X679	3240812	100
WT-STEEL S 4,6X838	3240723	100
WT-STEEL S 4,6X1067	3240805	100
WT-STEEL S 7,9X259	3240814	100
WT-STEEL S 7,9X360	3240815	100
WT-STEEL S 7,9X520	3240816	100
WT-STEEL S 7,9X679	3240817	100
WT-STEEL S 7,9X838	3240725	100
WT-STEEL S 7,9X1067	3240813	100

Cable binder tool, for steel cable binders with a width of up to 7.9 mm, material thickness of up to 0.3 mm
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Accessories		
UNIFOX-CT M 7,9	1212610	1



**Cable binders made of stainless steel
AISI 316 (V4A)**



The WT-STEEL SH ... cable binders are especially suited to use with aggressive chemicals and in onshore and offshore areas. They offer the following features:

- Secure, permanent attachment with long service life
- Corrosion resistant when exposed to aggressive chemicals, e.g., acids, salt fog, and sea water
- UV resistant
- Weatherproof
- Fire-proof
- Vibration-resistant
- Easy to use
- Anti-magnetic
- Halogen-free/silicone-free



Cable tie length of 150 - 1067 mm



General data	
Material	Stainless steel 1.4401/AISI 316
Temperature range	-80 ... 538 [°C]

Technical data	
Material	Stainless steel 1.4401/AISI 316
Temperature range	-80 ... 538

Description	Color
Cable binder , made of stainless steel (AISI 316), width 4.6 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
30 / 890	silver
50 / 890	silver
69 / 890	silver
102 / 890	silver
152 / 890	silver
203 / 890	silver
254 / 890	silver
305 / 890	silver
Cable binder , made of stainless steel (AISI 316), width 7.9 mm, maximum bundle Ø [mm]/minimum tensile strength [N]	
69 / 1335	silver
102 / 1335	silver
152 / 1335	silver
203 / 1335	silver
254 / 1335	silver
305 / 1335	silver

Ordering data		
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Type	Order No.	Pcs. / Pkt.
WT-STEEL SH 4,6X150	3240820	100
WT-STEEL SH 4,6X201	3240821	100
WT-STEEL SH 4,6X259	3240822	100
WT-STEEL SH 4,6X360	3240823	100
WT-STEEL SH 4,6X520	3240824	100
WT-STEEL SH 4,6X679	3240825	100
WT-STEEL SH 4,6X838	3240727	100
WT-STEEL SH 4,6X1067	3240818	100
WT-STEEL SH 7,9X259	3240827	100
WT-STEEL SH 7,9X360	3240828	100
WT-STEEL SH 7,9X520	3240829	100
WT-STEEL SH 7,9X679	3240830	100
WT-STEEL SH 7,9X838	3240766	100
WT-STEEL SH 7,9X1067	3240826	100

Cable binder tool , for steel cable binders with a width of up to 7.9 mm, material thickness of up to 0.3 mm

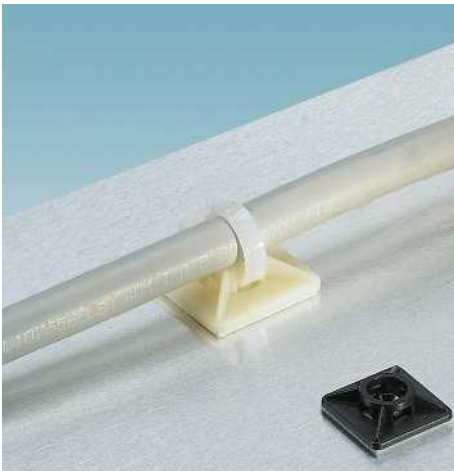
Accessories		
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UNIFOX-CT M 7,9	1212610	1
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Installation and mounting material - CABINET add-on

Cable routing, cable protection, cable bundling

Cable binder base, self-adhesive and/or screwable



- The WT-BASE LS ... cable binder bases are characterized by their excellent adhesive properties as well as the following:
- Easy to use
 - Cable binders can be fed through on four sides
 - Self-adhesive and optionally screwable
 - Secure hold, load can be applied after just a few minutes
 - Halogen-free/silicone-free



General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 60 [°C]

Technical data

ABS
HB
-40 ... 60

Description	Color
Cable binder base , for cable binders of up to 4 mm width, self-adhesive and screwable, 4 mm fixing hole, dimensions: 19 x 19 mm	transparent black
Cable binder base , for cable binders of up to 6 mm width, self-adhesive and screwable, 4.8 mm fixing hole, dimensions: 27 x 27 mm	transparent black

Ordering data

Type	Order No.	Pcs. / Pkt.
WT-BASE LS HF 4	3240706	100
WT-BASE LS HF 4 BK	3240707	100
WT-BASE LS HF 6	3240708	100
WT-BASE LS HF 6 BK	3240709	100

Cable binder base, screwable



- Space-saving design
- Easy to use
- Cable binders can be fed through on two sides
- Halogen-free/silicone-free



General data	
Material	PA 6.6
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data

PA 6.6
V2
-40 ... 85

Description	Color
Cable binder base , for cable binders of up to 5 mm width, screwable, 3.5 mm fixing hole, dimensions: 9.5 x 15 mm	transparent black
Cable binder base , for cable binders of up to 9 mm width, screwable, 5 mm fixing hole, dimensions: 14.6 x 22 mm	transparent black

Ordering data

Type	Order No.	Pcs. / Pkt.
WT-BASE HF 5	3240702	100
WT-BASE HF 5 BK	3240703	100
WT-BASE HF 9	3240704	100
WT-BASE HF 9 BK	3240705	100

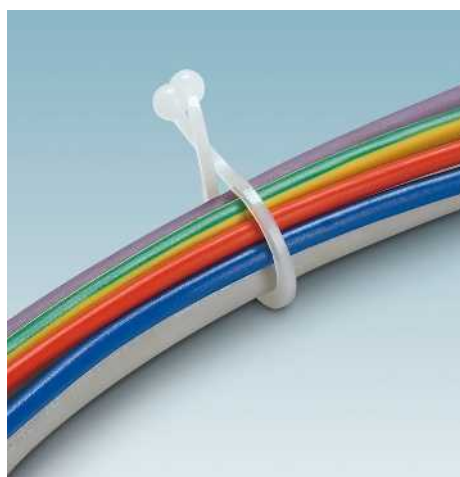
Cable binder base for direct mounting

- WT-BASE R ... with molded body-bound rivet for direct mounting in materials of up to 3 mm thickness
- WT-BASE P ... is ideally suited to use in solid panels
- Easy to use, can be directly knocked into the panel



General data		Technical data			Technical data		
Material		PA 6.6		PA 6			
Inflammability class according to UL 94		V2		HB			
Temperature range	[°C]	-40 ... 85		-10 ... 65			
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cable binder base , for cable binders of up to 8 mm width, with molded body-bound rivet, 6.5 mm drilling diameter	transparent	WT-BASE R HF 8	3240711	100			
Cable binder base , for cable binders of up to 9.5 mm width, with fins, 8 mm drilling diameter, can be knocked in	black				WT-BASE P HF 9,5 BK	3240710	100

Cable drillers, for fast and tool-free bundling of conductors and cables

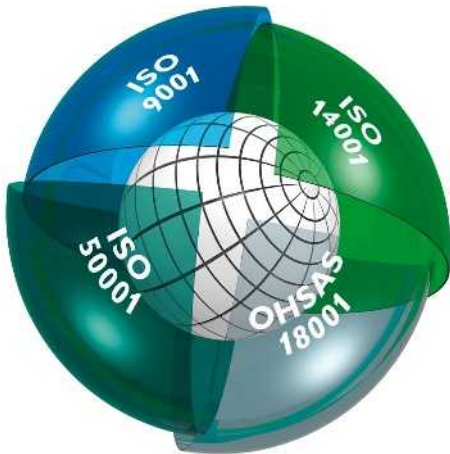


- Fast and easy to use
- Can be removed again
- Reusable
- Tool-free mounting
- Ideal for temporary bundling
- Halogen-free/silicone-free



General data		Technical data		
Material		PA 6.6		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 85		
Description		Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.
Cable driller				
Bundle diameters 5.1 - 7.6 mm	transparent	WG-D HF 7,6	3241099	1000
Bundle diameters 7.6 - 10.2 mm	transparent	WG-D HF 10,2	3241101	1000
Bundle diameters 10.2 - 12.7 mm	transparent	WG-D HF 12,7	3241103	1000
Bundle diameters 12.7 - 16 mm	transparent	WG-D HF 16	3241105	1000
Bundle diameters 16 - 20.3 mm	transparent	WG-D HF 20,3	3241107	1000
Cable driller				
Bundle diameters 5.1 - 7.6 mm	black	WG-D HF 7,6 BK	3241100	1000
Bundle diameters 7.6 - 10.2 mm	black	WG-D HF 10,2 BK	3241102	1000
Bundle diameters 10.2 - 12.7 mm	black	WG-D HF 12,7 BK	3241104	1000
Bundle diameters 12.7 - 16 mm	black	WG-D HF 16 BK	3241106	1000
Bundle diameters 16 - 20.3 mm	black	WG-D HF 20,3 BK	3241108	1000

Quality in quantity



Integrated management system

The objective of the Phoenix Contact integrated management system is to integrate all requirements pertaining to products, processes, and the organization.

Statutory and regulatory requirements, as well as those of international standards and our customers, are met and, in some cases, even exceeded in all phases of the product lifecycle.

The integration of quality, environmental protection, and occupational safety into the Phoenix Contact management system is monitored for conformance every year by independent, internationally recognized institutes. Certifications according to international standards ISO 9001, ISO 14001, and BS OHSAS 18001 are for us the result of our corporate philosophy of meeting the needs of our customers, employees, and the environment to the greatest possible extent. They are used as the basis for innovative products with the trusted, high Phoenix Contact quality standard, active environmental protection, and responsible occupational health and safety. Of course we also integrate the additional requirements of standards, international approvals, and special customer requirements into our company processes.

The result of this system is a building block for the success of the Phoenix Contact Group as well as its products and services.

CE marking

CE marking was introduced as an important instrument for the free movement of goods within the European single market. By applying the mark to a product, the manufacturer confirms its compliance with all EU directives applicable to this product. The EC directives describe the product characteristics with regard to

device safety and the avoidance of risks. These are legally binding regulations of the European Union (EU), which means that the fulfilment of these requirements is a **legal prerequisite for the marketing of these products within the EU.**

Where applicable, our products currently fall within the scope of the following directives:

- 2006/95/EC
Electrical equipment for use within certain voltage limits (low-voltage directive)
- 2004/108/EC
Electromagnetic compatibility (EMC Directive)
- 2006/42/EC
Safety of machinery (Machinery Directive)
- 94/9/EC
Devices and protective systems for use in potentially explosive areas (ATEX 100a directive)
- 1999/5/EC
Wireless systems and telecommunications terminal equipment (R&TTE).

The standards used as the basis for the aforementioned directives have been at the heart of our development standard for some time as a way of ensuring compliance with European directives. The numbers of the directives indicate their version at the time of publication. In the event of changes to directives and/or standards, our products will undergo conformity assessment again in good time and a new declaration of conformity will be issued simultaneously. The current declarations for each product can also be found in our Download Center.

Among the aforementioned European directives, the EMC Directive plays a particularly important role. It uses a legally binding directive as the basis for defining electromagnetic compatibility as a fundamental device property. European legislation therefore places great emphasis on the electromagnetic compatibility of devices and systems as a basic prerequisite for the error-free operation of machines and systems. As an international leader in the field of surge protection, Phoenix Contact has extensive expertise in EMC. This expertise and the experiences gained over many years in the development and application of industrial interface and communication technology have resulted in an extremely high standard of quality for our products when it comes to electromagnetic compatibility. Our sister company, Phoenix Testlab, was founded in

order to share this expertise with other companies. Phoenix Testlab GmbH is an independent, accredited service company, which carries out EMC testing in compliance with the European standards. At Phoenix Testlab, devices are also tested with regard to their electrical safety, mechanical influences, and their behavior in relation to environmental influences. Phoenix Testlab is also a “Notified Body” according to EMC Directive 2004/108/EC and R&TTE directive 1999/5/EC for wireless systems and telecommunications terminal equipment. As a “Telecom Certification Body” (TCB), Phoenix Testlab is also able to approve these products for the markets in the USA, Canada, and Japan.

Standards and regulations

All relevant standards and regulations are used as the basis for the development and maintenance of our products.

International standards are subject to continuous changes as a result of harmonization and new developments. In order to comply with this process, we keep a record of the current version of the standards applicable to our products in the product area of our website at phoenixcontact.net/products.

Online product information service on the world wide web

Phoenix Contact is continuously extending its product range.

Within the scope of our product monitoring obligation, all products are subject to an improvement process.

The Internet is an ideal platform to quickly communicate new product developments and improvements to the market.

You can quickly access the relevant Phoenix Contact website for your region via phoenixcontact.com. There you will always find an up-to-date overview of products, solutions, and services from Phoenix Contact. This includes technical documents such as data sheets and user manuals, current driver and demo software, and a direct link to the relevant contact person.

Materials

Polyamide (PA)

Polyamide has excellent electrical, mechanical, chemical, and thermal properties, even at high operating temperatures. Brief peak temperatures of up to 200°C are permitted as a result of heat aging stabilization. Polyamide absorbs moisture from its surroundings (2.8% on average). This is not the embedded water of crystallization, however, but rather chemically bound H₂O groups in the molecular structure. This makes the plastic flexible and resistant to breakage, even at temperatures as low as -60°C. According to UL 94, PA belongs to inflammability class V2 to V0. The polyamide used by Phoenix Contact is silicone- and halogen-free and is suitable for use at temperatures between -60°C and +125°C.

Polycarbonate (PC)

Polycarbonate has a high mechanical strength and chemical resistance. Rigidity, dimensional stability, and good heat distortion resistance are further distinguishing features of this material. Polycarbonate is used to manufacture particularly smooth and stable marking materials. The polycarbonate used by Phoenix Contact absorbs little moisture, is silicone- and halogen-free, and is suitable for use at temperatures between -40°C and +125°C.

Polycarbonate/acrylonitrile butadiene styrene (PC/ABS)

PC/ABS blends are amorphous thermoplastics which are characterized by high impact strength potential even at low temperatures. They are resistant to acids and lyes, for example. In addition to benefiting from a high dimensional accuracy and low distortion tendency, they absorb little moisture. The products manufactured from these blends have high-gloss surfaces. Temperature range: -50°C to +90°C.

Acrylonitrile butadiene styrene (ABS)

ABS is a copolymer. It has a high impact strength and is strong and hard. The ABS used by Phoenix Contact is silicone-free and is suitable for use at temperatures between -40°C and +85°C.

Polyvinyl chloride (PVC)

PVC has a long service life. It is characterized in particular by its outstanding mechanical strength and high chemical resistance. Neither oxygen nor ozone affects PVC. The material is resistant to corrosive salt solutions and most acids. The polyvinyl chloride used by Phoenix Contact is silicone-free and is suitable for

use in temperatures between -30°C and +80°C.

Polyester

Polyester is a chemical-resistant material. It is ideally suited to printing, shaping, and punching. Polyester is resistant to UV radiation and absorbs little moisture. The polyester used by Phoenix Contact is silicone- and halogen-free. Depending on its composition, it is suitable for use in temperatures between -40°C and +150°C.

Polyolefine

Polyolefines are semi-crystalline thermoplastics, which can be easily processed as extrusion profiles (shrink sleeves). They are characterized by good chemical resistance. Silicone-free, temperature range: -55°C to +125°C.

Polyethylene (PE)

Polyethylene is a thermoplastic material which is highly resistant to acids, alkalis, and other solvents. PE absorbs hardly any moisture and has high durability and breaking elongation. Silicone- and halogen-free, temperature range: -40°C to +80°C.

Halogen-free

The term halogen-free, based on international standards for base materials for PCBs (e.g., IEC 61249-2-21, IPC 4101 C), relates to the elements chlorine and bromine in flame protection agents. This also forbids the use of flame protection agents containing halogen according to DIN EN ISO 1043-4.

This means that, according to the definition in the ZVEI position paper (requirements for the use of halogen-free products in the electrical and electronics industry), no flame protection agents containing halogen or PVC are present in the components.

Inflammability classification

UL 94 V0/1/2

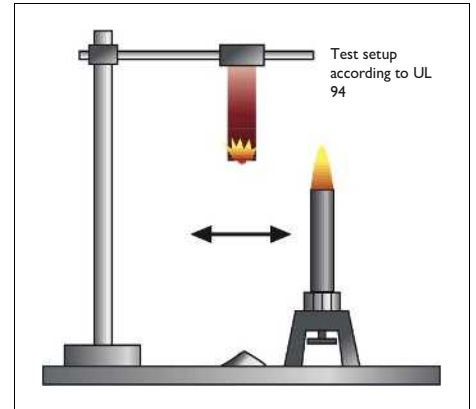
The inflammability tests for plastics have been defined by the Underwriters Laboratory (USA) in regulation UL 94. This applies to all areas of application, particularly in electrical engineering. Inflammability of the plastic material is examined in the test laboratory in a horizontal (HB - Horizontal Burn) or vertical (V - Vertical Burn) test with a naked flame. In order of increasing resistance to combustion, the evaluation classes are HB, V1, V2, V0. Test results are listed on "yellow cards" and are published annually in the Recognized Component Directory.

The flash point, the combustion point, and the ignition point of a material are decisive with regard to behavior in fire. The tests show that the classifications of UL 94 V1/2/0 are stricter than those of UL 94 HB.

The test bar is clamped vertically and flame-treated several times. Each flame treatment lasts 10 seconds. Between the flame treatments, the time until the test bar is extinguished is measured. Then the afterflame times and the drip behavior are evaluated.

This test setup is not suitable for foils and/or very thin test objects that shrink when exposed to the heat of the flame.

Phoenix Contact only uses plastics which conform to UL 94 V1/2/0.



Classification	UL 94 V0	UL 94 V1	UL 94 V2	UL 94 HB
Burning time after each flame treatment	≤ 10 s	≤ 30 s	≤ 30 s	-
Total burning time after 10 flame treatments	≤ 50 s	≤ 250 s	≤ 250 s	-
Glowing time after the 2nd flame treatment	≤ 30 s	≤ 60 s	≤ 60 s	-
Complete burn-off	No	No	No	Yes
Ignition of the wadding beneath the sample	No	No	No	-

Halogen-free flame protection

DIN EN ISO 1043-4

Halogens include the chemical elements astatine, fluorine, chlorine, bromine, and iodine. One characteristic of the halogen compounds of bromine and chlorine relates to the reduction in the degree of inflammability when used in plastics. In the event of fire, poisonous corrosive gases are formed. Secondary damage attributable in part to the water used to extinguish the fire can also be caused. For this reason, Phoenix Contact does not use any flame protection systems which contain halogens or other additives. Polyamide, polycarbonate,

polycarbonate/acrylonitrile butadiene styrene, acrylonitrile butadiene styrene, and polyolefines feature halogen-free flame protection systems.



Aging test

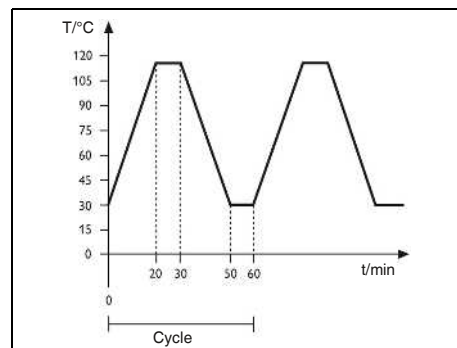
IEC 60947-7-1/-2

Terminal blocks are characterized, among other things, by long life cycles and their ability to safely withstand continuous temperatures of +125°C. In order to ensure that the printing of these terminal blocks also meets these requirements, Phoenix Contact uses marking materials with heat stabilizers.

To simulate usage over several years, the marking materials, together with the terminal blocks or conductors, are subjected to a defined temperature cycle in the climate cabinet. The minimum temperature in the climate cabinet is set to +20°C and the maximum temperature to

+120°C (+80°C for PVC). The test objects reach the maximum permissible operating temperature during the warming phase and the 10-minute pause phase. The cooling down phase follows. This test consists of a total of 192 cycles.

Without exception, Phoenix Contact marking materials are tested according to IEC 60947-7-1/-2. All plastics used also have sufficient safety reserves.



Temperature in relation to time

Resistance to oil and chemicals

According to DIN EN ISO 175

Physical and/or chemical processes/reactions can occur as a result of external media, such as liquids or gases. This can result in a change to the plastic's properties. The plastic can be damaged or even destroyed. Imprints and labels can also be affected by these changes.

In order to prevent this from happening, Phoenix Contact uses only plastics and printing/marketing materials which have been tested based on DIN EN ISO 175.

Chemical	Weight %
Alkalis	
Sodium hydroxide solution	3
Potassium hydroxide solution	3
Ammonium hydroxide (ammonia water)	25
Alcohols	
Ethanol	100
1-propanol	100
2-propanol	100
Diethylene glycol	100
Aldehyde/ketones	
Ethyl acetate	100

Chemical	Weight %
Oils, greases, aliphatic and aromatic hydrocarbons	
IRM 902	100
IRM 903	100
ASTM No.1	100
Xylol	100
Test benzene (180/220)	100
Hycut SU 68	100
Hycut SET 46	100
Shell Tellus 92	100
Aqueous salt solutions	
Sodium chloride	5
Potassium chloride	5
Ammonium chloride (ammonia solution)	100

UV light resistance

According to DIN EN ISO 4892-2 and DIN EN ISO 60068-2-5

UV-B components restrict mechanical properties in plastics. As a consequence, imprints and labels can be damaged to a greater or lesser extent dependent upon the type of plastic.

Marking materials from Phoenix Contact can be stored in dry as well as humid atmospheres under UV radiation and are tested in accordance with the aforementioned standards.



Corrosion test

DIN 50018

Extreme ambient influences impose demanding requirements on components and their Marking and labeling.

The following test method, based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulfur dioxide.

Two liters of distilled water and one liter of SO₂ gas are introduced into a climate cabinet. During the test and at a test temperature of 40°C, an acidic atmosphere is formed, which affects the material surfaces of the test objects. After a testing time of eight hours, the test objects are left to dry for 16 hours with the door open. Finally, a microscopic visual check is performed.

All marking materials used by Phoenix Contact conform to this demanding standard and are resistant to aggressive substances.



Salt spray

IEC 60068-2-11/-52

In the shipbuilding industry in particular, technical components must be marked in a way that is legible at all times in corrosive atmospheres. The salt content of the air in combination with the increased humidity places high demands on the imprints and materials used. The impact of the climate at sea can be simulated on the basis of IEC 60068-2-11/-52.

The resistance of the materials is tested with salt spray in a corrosive atmosphere. The test objects are placed in the test chamber and subjected to a finely dosed spray of 5% sodium chloride solution (NaCl; pH value 6.5 - 7.2) at a temperature of +35°C for a period of 96 hours. A microscopic inspection is performed after the test.

Phoenix Contact marking materials fulfill these stringent requirements and can be used even in extreme climatic conditions.



Resistance to solvents

According to EN 60464-2:2001

Markings and imprints must be able to withstand a variety of different solvent vapors. According to the aforementioned standard, imprints and markings are stored in an acetone, n-hexane, and ethanol atmosphere for 10 days, after which they must continue to be legible.

Phoenix Contact marking materials are solvent-resistant and fulfill the stringent requirements.

Scratch resistance

According to DIN EN ISO 1518

Markings and imprints must also be resistant to point and/or linear mechanical loads.

For this reason, Phoenix Contact tests all markings and imprints for scratch resistance in accordance with the aforementioned standard. The test is carried out by applying a scratching tool with a hemispherical tip (1 mm in diameter) to the test objects. Depending on the printing procedure, a force of between 2 N and 6 N is applied. This is followed by a visual and microscopic

inspection of the test objects. Phoenix Contact marking materials fulfill these high mechanical requirements.



Resistance to abrasion

According to KIMW 003, Part 1 In-house standard of the Lüdenschied Plastics Institute

Markings and imprints must be resistant to surface loads. The aforementioned in-house standard prescribes the grouping of labels and imprints into load classes. A felt disk (hardness H1 according to DIN 61200) is subjected to various numbers of strokes (1000, 10,000, 30,000) with a pressure force of 1 N, 2 N, and/or 4 N. Imprints are classified into the various load classes

defined in the in-house standard on the basis of the pressure force and the number of strokes at which they sustain damage.

Phoenix Contact imprints and markings meet the requirements of the highest load class K9 (30,000 strokes with a 4 N pressure force).

Abrasion and wipe resistance

According to DIN EN 61010-1

Markings and imprints must be resistant to standard industrial cleaning agents. The aforementioned standard prescribes the use of a soft cloth with water, isopropanol, petroleum ether, and n-hexane to clean markings and imprints. They must remain clearly legible after cleaning.

Phoenix Contact marking materials fulfill the stringent requirements as regards abrasion and wipe resistance and can be used in all applications.



Vibration resistance

According to IEC 60068-2-6

This test demonstrates the vibration resistance and the tight fit of the marking materials under the influence of continuous vibrations. Harmonic, sinusoidal vibrations are applied to the test object to simulate rotating, pulsating or oscillating forces. The test is performed on each of the three spatial axes (x, y, z). In the test, the objects run through a frequency range of 3 Hz to 150 Hz at a speed of one octave per

minute. The r.m.s. value of the acceleration is up to 50 m/s². The test objects are tested in the three axes for two hours each. The marking materials must not be damaged in such a way that would impair their continued use.

All Phoenix Contact marking materials meet the requirements of the standard and are particularly suitable for applications in

which they are subjected to high levels of vibration.

Vibration test

According to DIN EN 61373 - broadband noise (intensity according to DIN EN 50155)

In many applications and especially in traffic technology, marking materials are subjected to vibrations and shocks. For a practical simulation of vibration stress, the test objects are tested for vibration resistance at increasing and decreasing frequencies and amplitudes. In the test, the objects run through a frequency range of 5 Hz to 150 Hz. The r.m.s. value of the acceleration is up to 42.5 m/s^2 . The test objects are tested for five hours in each of the three axes (x, y, z). The components and marking materials must not be damaged in

such a way that would impair their continued use.

All Phoenix Contact marking materials fulfill these stringent vibration requirements.



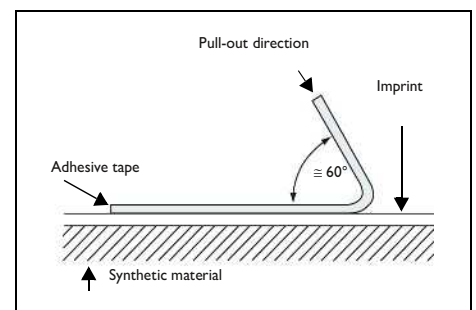
Grid test

According to DIN EN ISO 2409

A Sellotape test is conducted based on DIN EN ISO 2409. A transparent strip of self-adhesive tape with an adhesive strength of $10 \pm 1 \text{ N}$ is attached to the imprint or marking to be tested. It is then pulled away from the surface at an angle of 60° to the direction of tensile force at a speed of 1 cm/s.

There should be no marks from the print on the adhesive tape after the test.

Phoenix Contact marking materials meet the requirements of this standard. They are tough and resistant to peeling.

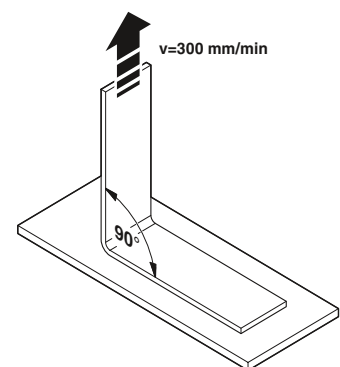


Test setup

Adhesive strength test

According to FINAT test method No. 2

This test is used to compare the adhesive strength of labels on a variety of base materials. To this end, a strip of labels (25 mm x 175 mm) is applied to the respective base material with a specified force. After a defined storage period, the strip is removed from the base material at an angle of 90° and a speed of 300 mm/min. The adhesive strength is specified in N/25 mm. The test therefore enables the most suitable label to be selected for the application.



Cutting

Shear cutting

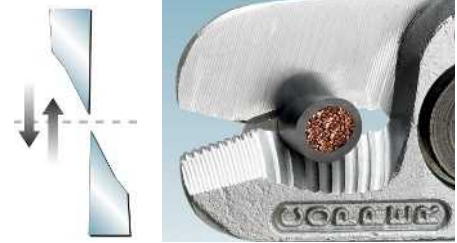
Ratchet-driven cable cutters are a quick and reliable solution for cutting conductors and cables in the upper cross-section range up to 1400 mm². Special cutting geometries help to ensure that the tool is easily accessible and can be relied upon to produce burr-free right-angle cuts. In this cutting procedure, which is also known as shear cutting, the two blades move towards and past one another and cut (shear) the material without burring. DIN 8588 describes this procedure as severing.

Bite cutting

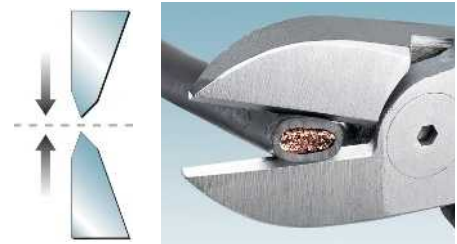
During bite cutting, the material is severed by two wedge-shaped blades moving in opposite directions. The wedge angle set for the blades is deliberately large and stable. In addition to the hardening of the entire tool, the cutting area is subsequently hardened again inductively to 62 HRC. This makes it possible to sever even extremely hard materials such as piano wire and spring steel with a tensile strength

of up to 2300 N/mm² without damaging the tool. Bite cutting is suitable only to a limited extent for cutting through cables and lines.

The high-quality CUTFOX cutting tools from Phoenix Contact can be relied upon for long-term stability and permanently consistent results.



Shear cutting



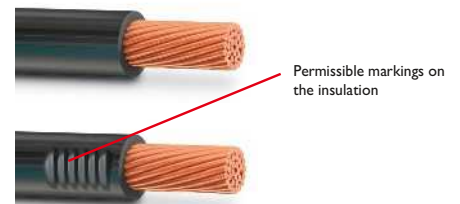
Bite cutting

Stripping

Stripping describes the removal of the insulation of conductors up to 16 mm². In the case of larger conductor cross sections and multiple-wire and multi-layer conductors and cables, only the outer insulation sheath is removed. The length of the insulation to be removed varies according to the terminal point and connector. Removing the insulation must not damage either the single inner wires or the braided shield. The remaining insulation must also remain intact, although pressure points on and color changes in the insulation material are permitted. Further faults that need to be prevented are stipulated in DIN IEC 60352.

Suitable blade geometries are used to process special insulation materials. V blades are used for both hard (e.g., Teflon/Radox®) and soft rubber insulations (silicone).

Phoenix Contact WIREFOX automatic stripping pliers can remove insulation quickly and correctly.



Cable stripped correctly according to DIN IEC 60352



Cable stripped incorrectly according to DIN IEC 60352

Crimping/pressing/crushing

Crimping describes the joining of contact and conductor mechanically. In addition to crimping, two other terms are used dependent upon the type of deformation. A distinction is made between squeezing (for insulated cable lugs) and pressing (for ferrules and non-insulated cable lugs). Slip-on blade connectors are described as being crimped.

A number of important points must be considered in order to establish a reliable connection between contact and conductor:

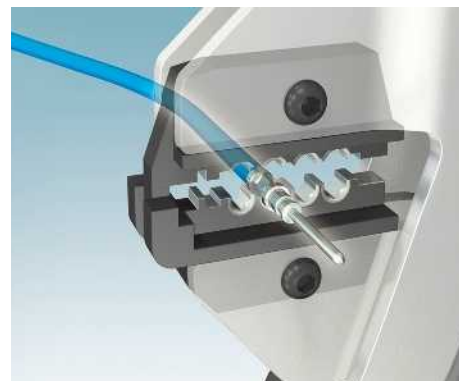
- The conductor must be prepared correctly
- The contact and the conductor must be compatible
- The conductor must be positioned correctly in the contact
- A suitable crimping tool must be selected

Professional crimping pliers are always equipped with a releasing pressure lock. They unlock as soon as the required crimping pressure is attained, thus ruling out the possibility of too little pressure. This guarantees the user a consistent

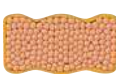
crimping result with maximum pull-out values.

The DIN EN 60352-1 and DIN EN 60999-1 standards are among the references used to assess crimping results. In addition to a variety of electrical and mechanical tests, conductor pull-out tests are the decisive criterion.

All Phoenix Contact crimping tools have been adjusted and tested according to valid standards. They ensure gas-tight crimping that will remain stable in the long-term.



Pressing



WM crimp

For crimping ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application: for conductor sizes 10 - 50 mm².



B crimp

For crimping non-insulated slip-on blade connectors and slip-on sleeves. Areas of application: for conductor sizes 0.1 - 6 mm².



Hex crimp

For crimping non-insulated tubular cable lugs, coaxial connectors, and fiber optic connectors. Areas of application: for conductor sizes 0.5 - 6 mm². Coaxial: 1.73 mm, 2.54 mm, 8.23 mm, 10.54 mm, and 10.9 mm. FO: 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, and 5.41 mm.



Square crimp

For crimping ferrules according to DIN 46228. Areas of application: for conductor sizes 0.14 - 10 mm².



Indent/prong crimp

For crimping non-insulated cable lugs. Areas of application: for conductor sizes 0.75 - 10 mm².



Trapezoid crimp

For crimping ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application: for conductor sizes 0.25 - 10 mm².



Oval crimp

For crimping insulated cable lugs and connectors. Areas of application: for conductor sizes 0.1 - 6 mm².



Double indent crimp

For crimping non-insulated cable lugs. Areas of application: for conductor sizes 0.75 - 10 mm².

Conductor pull-out test

DIN EN 60352-2

In practice, crimping points can be affected by tensile forces during wiring or operation. Therefore, crimped contacts must offer a high degree of mechanical safety. To test the tensile load capacity of the crimp, a predefined cross-sectional tensile force is applied for a period of 60 seconds. The tensile force exerts stress on the conductor at the crimping point. The crimp must withstand the load without sustaining damage.

The test results for Phoenix Contact contacts are significantly higher than the minimum values required by the standard.



Conductor cross sections/conductor pull-out forces

Structure and dimensions of connecting cables

Conductor pull-out forces			Crimping sleeves DIN EN 60352-2 (11/2006)	Ferrules IEC EN 60999 1) (up to 35 mm ²)	Ferrules IEC EN 60947-7-1 (35 mm ² and above)
AWG/kcmil	Metric conductor cross section [mm ²]	Comparable conductor cross section [mm ²]	[N] ²⁾	[N] ³⁾	[N] ³⁾
30	0.0507	0.05	6		
(29)	0.0647				
28	0.0804	0.08	11		
(27)	0.102				
26	0.128	0.12	15		
(25)	0.163	0.14	18		
24	0.205	0.22	28	10	
(23)	0.259	0.25	32		
22	0.325	0.32	40	15	
(21)	0.412				
20	0.519	0.5	60	20	
(19)	0.653	0.75	85	30	
18	0.824	0.82	90	30	
(17)	1.04	1	108	35	
16	1.307	1.3	135	40	
(15)	1.651	1.5	150	40	
14	2.082	2.1	200	50	
(13)	2.627	2.5	230	50	
12	3.307	3.3	275	60	
(11)	4.169	4	310	60	
10	5.26	6	360	80	
(9)	6.633				
8	8.367	8.4	370	90	
(7)	10.55	10	380	90	
6	13.229			100	
(5)	16.767	16			
4	21.148			135	
(3)	26.667	25		156	
2	33.624	35		190	
1	42.406				236
0	53.482	50			236
00	67.43	70			285
000	85.014	95			351
0000	107.22	120			427
250 kcmil	127	120			427
300 kcmil	152	150			427
350 kcmil	177	185			503
400 kcmil	203				503
500 kcmil	253	240			578
600 kcmil	304	300			578

1) DIN 57609 has been replaced by IEC EN 60999.

2) Pull-out values for open and closed crimping sleeves and insulated crimping sleeves.

3) Pull-out values for ferrules, insulated and non-insulated.

Gas tightness

Corrosion-free contact areas are a prerequisite for high-performance and low-resistance connections. The corrosion test described below shows that when used correctly at contact points, Phoenix Contact crimping tools and connectors achieve a permanent gas-tight connection that remains intact even when exposed to aggressive substances.

The test method, which is based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulfur dioxide.

Two liters of distilled water and one liter of SO₂ gas are introduced into a climate cabinet. At a test temperature of 40°C, acidic compounds < Ph 7 form during the test and attack the metal surfaces. After a testing time of eight hours, the test objects are left to dry for 16 hours with the door open. A visual check follows. Before and after the corrosion test, the contact resistance of the contacts is recorded according to DIN EN 60512-2-1:2002. Changes that can be attributed to the effects of corrosion are investigated.

Color codes

Conductors are marked in different colors so that different types can be identified more easily. Conductor cross sections and their corresponding color codes are listed in the table.

Conductor cross section		Color
[mm ²]	AWG	
0.1 - 0.5	26 - 20	yellow/light green green
0.25 - 0.75	24 - 18	
0.5 - 1.5	20 - 16	red
1.5 - 2.5	16 - 14	blue
4 - 6	12 - 10	yellow
10	8	red
16	6	blue
25	4	yellow

Tightening torque of terminal block screws

DIN EN 60947-1

Table 4 of the standard specifies the tightening torque to demonstrate the mechanical strength of screw connections/screw terminal blocks.

Although these torques are sufficient for connecting conductors with Phoenix Contact terminal blocks,

The table opposite lists recommended tightening torques which differ from those in this standard and will ensure gas-tight connections that remain stable in the long term.

Phoenix Contact torque screwdrivers can be set to the corresponding torques.

Extract from DIN EN 60947-1/EN 60947-1, Table 4

The torque according to IEC/EN and the recommended tightening torque for Phoenix Contact terminal blocks are specified.

Head screw with slot	
Thread	Torque
	[Nm]
M1.6	0.1*
M2.0	0.2*
M2.5 (M2.6)	0.4*
M3	0.5*
M4	1.2*
M4.5	1.8*
M5	2.0*
M6	2.5*
M8	3.5*
M10	4.0*/10**
M12	14**
M14	19**
M16	25**
M20	36**
M24	50**

* Valid for nuts and screws tightened with screwdrivers.

**Valid for nuts and screws that can be tightened with tools other than screwdrivers.

Color designations

Color	Code
White	WH
Red	RD
Blue	BU
Green	GN
Yellow	YE
Gray	GY
Brown	BN
Orange	OG
Black	BK
Turquoise	TQ
Ivory	IV
Beige	BE
Olive	OL

DIN rails

DIN rails/protective conductor busbars

Extract from IEC 60947-7-2/EN 60947-7-2/DIN EN 60947-7-2/VDE 0611-3

Phoenix Contact type	Rail profile	Material	Short-circuit current rating ≅ E CU conductor [mm ²]*	Short-time withstand current 1 s [kA]	Max. permissible thermal nominal current for PEN function [A]
NS 15 UNPERF 2000MM	DIN rail, acc. to EN 60715 – 15 x 5.5	Steel	10	1.2	**
NS 15 PERF 2000MM	DIN rail, acc. to EN 60715 – 15 x 5.5	Steel	10	1.2	**
NS 15-AL PERF 2000MM	DIN rail, dimensions acc. to EN 60715 – 15 x 5.5	Aluminum	16	1.92	76
NS 32 UNPERF 2000MM	G-profile rail, acc. to EN 60715 – G 32	Steel	35	4.2	**
NS 32 PERF 2000MM	G-profile rail, acc. to EN 60715 – G 32	Steel	35	4.2	**
NS 32-CU/35 QMM UNPERF 2000MM	G-profile rail, dimensions acc. to EN 60715 – G 32	Copper	120	14.4	269
NS 32-CU/120 QMM UNPERF 2000MM	G-profile rail, similar to EN 60715 – G 32	Copper	150	18.0	309
NS 35/7,5 UNPERF 2000MM	DIN rail, acc. to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 PERF 2000MM	DIN rail, acc. to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5 V2A UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Steel	16	1.92	**
NS 35/7,5-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Copper	50	6.0	150
NS 35/7,5-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 7.5	Aluminum	35	4.2	125
NS 35/15-2,3 UNPERF 2000MM	DIN rail, acc. to EN 60715 – 35 x 15	Steel	50	6.0	**
NS 35/15 UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15 ZN PERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Steel	25	3.0	**
NS 35/15-CU UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Copper	95	11.4	232
NS 35/15-AL UNPERF 2000MM	DIN rail, similar to EN 60715 – 35 x 15	Aluminum	70	8.4	192

* Cross sections calculated according to IEC 60439-1/EN 60439-1/DIN EN 60439-1/VDE 0660-500.

** Protective conductor busbars made of steel may not be used for the PEN function.

Clearances and creepage distances

IEC 60947-7-1/UL 1059

Carrying out a dimensional check of clearances and creepage distances confirms that electrical insulation properties are adequate with respect to the following:

– Application

– Expected pollution

– Ambient conditions

The minimum distances are defined in IEC 60947-1 and UL 1059.

The distance is verified by measuring between two neighboring terminal blocks and the support, taking into account the shortest distances.

For the clearance, this means:

It is the shortest distance in the air between two conductive parts. The deciding factors for rating the minimum clearance values are the rated surge voltage and the surge voltage category of the terminal block.

For the creepage distances, this means:

It is the shortest distance along the insulating body between two conductive

parts. The deciding factors for determining the minimum creepage distance are the rated voltage, the pollution degree, and the insulation material group of the terminal block.

The minimum values can be taken from the tables of the relevant standards.

IEC 60947-7-1

Phoenix Contact terminal blocks are designed with surge voltage category III and pollution degree 3 with the required distances.

















































UL 1059

Phoenix Contact terminal blocks are generally designed for a nominal voltage of 600 V in Use Group C.

Detailed information can be found in the data sheets or the catalog documentation.

UL Use Group	Definition	Max. voltage [V]
A	Operating elements, consoles, and similar	150 300 600
B	Conventional devices, including office and electronic data processing equipment and similar	150 300 600
C	Industrial applications, without restrictions	150 300 600
D	Industrial applications, equipment with limited rating	300 600

Certification bodies and safety marks

Certification bodies and approvals	Country code	 Explosion protection	Country code	Ship classification societies	Country code
 IECB Scheme (in combination with certifying body)	International	 International Electrotechnical Commission	International	 Bureau Veritas	FR
 CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU	 DEKRA Certification B.V.	NL	 Germanischer Lloyd AG	DE
 Canadian Standards Association (CSA)	CA	 Physikalisch-Technische Bundesanstalt	DE	 Lloyd's Register of Shipping	GB
 Canadian Standards Association (CSA) - CSA approval for the USA -	US	 KIWA Nederland B.V.	NL	 Nippon Kaiji Kyokai	JP
 Canadian Standards Association. (CSA) Combined logo - CSA approval for Canada and the USA -	CA US	 QS Schaffhausen AG	CH	 Det Norske Veritas	NO
 Underwriters Laboratories Inc. (UL)	US	 VTT Expert Services Oy	FI	 Polski Rejestr Statków	PL
 Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA	 IBEXU Institut für Sicherheitstechnik GmbH	DE	 Russian Maritime Register of Shipping	RU
 Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA	 TÜV Rheinland do Brasil	BR	 Korean Register of Shipping	KR
 INSIEME PER LA QUALITA'E LA SICUREZZA	IT	 Technischer Überwachungsverein Nord	DE	 American Bureau of Shipping	US
 Eurasian Conformity	BY KZ RU	 DEKRA EXAM GmbH	DE		
 DEKRA Certification B.V.	NL	 Canadian Standards Association (CSA)	CA		
 Österreichischer Verband für Elektrotechnik	AT	 Canadian Standards Association (CSA) - CSA approval for the USA -	US		
 electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	CH	 Canadian Standards Association. (CSA) Combined logo - CSA approval for Canada and the USA -	CA US		
 Verband Deutscher Elektrotechniker e.V. (VDE) - Approval of drawings - Reports with production monitoring	DE	 Underwriters Laboratories Inc. (UL)	US		
 Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE	 Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA		
 Intertek ETL Listed - Approval for the USA -	US	 Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA		
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A 16 -12	3200425	444	ABN 2/SS	0404460	530	AI 1,5-8 BK-1000	3200917	445	AI-TWIN 2X 0,75-10 GY	3200975	450	
A 25 -12	3200357	444	AE MP SH 1000X1000	0161998	495	AI 1,5-8 BK-B	3201398	479	AI-TWIN 2X 1 -8 RD	3200810	450	
A 25 -15	3200360	444	AE MP SH 150X150	0161962	487	AI 1,5-8 BK-GB-1000	3202892	448	AI-TWIN 2X 1 -10 RD	3200988	450	
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A 50 -40	3241240	444	AE MP SH 300X200	0161967	487	AI 1,5-18 RD	3241125	447	AI-TWIN 2X 6 -14 YE	3201013	450	
A 70 -40	3241241	444	AE MP SH 300X300	0161970	487	AI 2,5-8 BU	3200522	445	AI-TWIN 2X 10 -14 RD	3201026	450	
A 95 -40	3241242	444	AE MP SH 300X500	0161981	488	AI 2,5-8 BU-B -1000	3200920	445	AI-TWIN 2X 16 -16 BU	3202847	450	
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A-EXB-25-66L-N-S	1411120	505	AE MP SH 382X458	0161975	488	AI 2,5-8 GY-B	3201550	479	AI-TWIN 2X2,5-10 GY	3240669	450	
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C1 S6 A 740X980X210	0899124	493	CD 30X40 WH	3240620	555	CD-HF 30X80	3240346	553	CF 500/DIE SC 1,5	1212241	475
C1 S6 A 740X980X300	0899137	495	CD 30X60	3240280	555	CD-HF 40X100	3240351	553	CF 500/DIE SC 6	1212242	475
C1 S6 A 800X800X300	0899135	495	CD 30X60 BU	3240306	555	CD-HF 40X40	3240348	553	CF 500/DIE SR 6-2	1212692	475
C3 S6 A 260X260X210	0899086	493	CD 30X60 WH	3240621	555	CD-HF 40X60	3240349	553	CF 500/DIE RCT 4	1212247	475
C3 S6 A 260X380X210	0899092	493	CD 30X80	3240282	555	CD-HF 40X80	3240350	553	CF 500/DIE TC 10	1212260	475
C3 S6 A 300X300X210	0899089	493	CD 30X80 BU	3240307	555	CD-HF 60X100	3240355	553	CF 500/LOC SCF 2,8/1,5	1212249	474
C3 S6 A 350X500X210	0899104	493	CD 30X80 WH	3240622	555	CD-HF 60X40	3240352	553	CF 500/LOC SCF 4,8/2,5	1212248	474
C3 S6 A 382X458X210	0899098	493	CD 40X100	3240294	555	CD-HF 60X60	3240353	553	CF 500/LOC SCF 6,3/6	1212247	474
C3 S6 A 450X620X210	0899110	493	CD 40X100 BU	3240312	555	CD-HF 60X80	3240354	553	CF 500/LOC SCM 6,3/2,5	1212264	474
C3 S6 A 480X480X210	0899101	493	CD 40X100 WH	3240627	555	CD-HF 80X100	3240360	553	CF 500/LOC SCM 6,3/6	1212265	474
C3 S6 A 508X762X210	0899116	493	CD 40X40	3240189	555	CD-HF 80X25	3240356	553	CF CRIMPHANDY 1.0	1212465	384
C3 S6 A 550X740X210	0899113	493	CD 40X40 BU	3240309	555	CD-HF 80X40	3240357	553	CF CRIMPHANDY 1.0/SERVICE-TOOL	1212759	384
C3 S6 A 600X400X210	0899095	493	CD 40X40 WH	3240624	555	CD-HF 80X60	3240358	553	CF CRIMPHANDY 1,5	1212466	385
C3 S6 A 600X600X210	0899107	493	CD 40X60	3240192	555	CD-HF 80X80	3240359	553	CF CRIMPHANDY 1,5/SERVICE-TOOL	1212708	385
C3 S6 A 610X914X210	0899122	493	CD 40X60 BU	3240310	555	CD-HF COVER 100	3240367	553	CF CRIMPHANDY/ACCU	1212518	384
C3 S6 A 640X860X210	0899119	493	CD 40X60 WH	3240625	555	CD-HF COVER 120	3240368	553	CF CRIMPHANDY/CHARGER	1212519	384
C3 S6 A 740X980X210	0899125	493	CD 40X80	3240198	555	CD-HF COVER 25	3240369	553	CF CRIMPHANDY/COVER	1212709	384
CARRIER-EMLP 22 (27X12,5)	0828985	287	CD 40X80 BU	3240311	555	CD-HF COVER 30	3240370	553	CF-10 CUTTER KNIFE SET	1207284	470
CARRIER-EMLP 22 (27X15)	0828986	287	CD 40X80 WH	3240626	555	CD-HF COVER 40	3240371	553	CF-10 WHEEL SET	1207271	470
CARRIER-EMLP 22 (27X18)	0828987	287	CD 60X100	3240263	555	CD-HF COVER 60	3240372	553	CF-10 WHEEL SET PU	1200098	470
CARRIER-EMLP 22 (27X27)	0828988	287	CD 60X100 BU	3240316	555	CD-HF COVER 80	3240373	553	CF-10 WHEEL SET STEEL	1200099	470
CARRIER-EMLP 22 (27X38)	0828984	287	CD 60X100 WH	3240631	555	CF 1000 EM	1205215	480	CLIP-PROJECT ADVANCED	5146040	18
CARRIER-EMP (1000X15) COVER	0829520	288	CD 60X40	3240190	555	CF 1000 EM4,0	1212663	480	CLIP-PROJECT PROFESSIONAL	5146053	19
CARRIER-EMP (1000X15) GY	0829366	288	CD 60X40 BU	3240313	555	CF 1000 LOC0,5 GB	1212907	480	CLIPFIX 15	3022263	520
CARRIER-EMP (1000X15) TR	0829530	288	CD 60X40 WH	3240628	555	CF 1000 LOC0,75 GB	1212908	480	CLIPFIX 35	3022218	520
CARRIER-EMP (17X15)	0827450	286	CD 60X60	3240193	555	CF 1000 LOC1,0 GB	1212909	480	CLIPFIX 35-5	3022276	520
CARRIER-EMP (27X15)	0827451	286	CD 60X60 BU	3240314	555	CF 1000 LOC1,5 GB	1212910	480	CMS-DISPOSABLE-PEN 0,25 TR	5146685	45
CARRIER-EMP (49X15)	0827452	286	CD 60X60 WH	3240629	555	CF 1000 SORT0,34	1206890	480	CMS-DISPOSABLE-PEN 0,35 TR	5146686	45
CARRIER-EMP (60X15)	0827453	286	CD 60X80	3240199	555	CF 1000 SORT1,5	1204326	480	CMS-INK-TR-C5	5146684	45
CARRIER-EMP (60X30)	0827454	286	CD 60X80 BU	3240315	555	CF 1000 SORT4,0	1206887	480	CMS-P1-MBN-ZB	5144725	44
CARRIER-EMP (85,6X54)	0829365	286	CD 60X80 WH	3240630	555	CF 1000 VEP1,5 GB	1206901	480	CMS-P1-M/GPE	5144754	44
CARRIER-EMP 22 (27X12,5)	0827446	286	CD 80X100	3240264	555	CF 1000-1,5	1208199	480	CMS-P1-M/GPE ENGRAVING	5145711	44
CARRIER-EMP 22 (27X15)	0827447	286	CD 80X100 BU	3240321	555	CF 1000-10	1212456	481	CMS-P1-M/GPE-PAD	5144880	44
CARRIER-EMP 22 (27X18)	0827448	286	CD 80X100 WH	3240636	555	CF 1000-10 EM10	1212665	481	CMS-P1-MLBHZ	5144738	44
CARRIER-EMP 22 (27X27)	0827449	286	CD 80X25	3240281	555	CF 1000-10 EM6,0	1212664	481	CMS-P1-M/PAB	5144741	44
CARRIER-EMP 22 (27X38)	0827445	286	CD 80X25 BU	3240317	555	CF 1000-10-TOOLKIT 10/12	1212460	481	CMS-P1-M/SS	5144712	44
CARRIER-PMP (108X38)	0830958	316	CD 80X25 WH	3240632	555	CF 1000-10-TOOLKIT 4/10-12	1212458	481	CMS-P1-M/ZB	5144699	44
CARRIER-PMP (110X38)	0831056	318	CD 80X40	3240335	555	CF 1000-10-TOOLKIT 6/12	1212459	481	CMS-P1-M/ZBF	5144709	44
CARRIER-PMP-ENCLOSED (110X38)	0831068	319	CD 80X40 BU	3240318	555	CF 1000-TOOLKIT 0,34/6-8	1208226	480	CMS-P1-M/ZBFM	5144686	44
CARRIER-TM 300	0828282	98	CD 80X40 WH	3240633	555	CF 1000-TOOLKIT 2,5/6-12	1208242	480	CMS-P1-M/ZBFM-PAD	5144848	44
CARRIER-TMD 300	0828693	98	CD 80X60	3240194	555	CF 1000-TOOLKIT 4,0/10	1208271	480	CMS-P1-M/ZBM	5144660	44
CARRIER-TMH 300	0830670	98	CD 80X60 WH	3240634	555	CF 3000 AB 0,25	1212380	478	CMS-P1-PAD	5144819	44
CARRIER/L-EMP (1000X15) GY	0829559	288	CD 80X80	3240200	555	CF 3000 AM 0,5	1205587	478	CMS-P1-PAD/SPARE	5144893	44
CARRIER/L-EMP (1000X15) TR	0829560	288	CD 80X80 BU	3240320	555	CF 3000 AM 0,75	1205590	478	CMS-P1-PENDEPOT	5144835	42
CARRIER/L-PMP-ENCLOSED (110X38)	0831062	319	CD 80X80 WH	3240635	555	CF 3000 AM 1,0	1205600	478	CMS-P1-PLOTTER	5144615	42
CD 100X100	3240205	555	CD COVER 100	3240289	555	CF 3000 AM 1,5	1205613	478	CMS-P1-PLOTTER-CASE	5144631	42
CD 100X100 BU	3240325	555	CD COVER 100 BU	3240328	555	CF 3000 AM 2,5	1205626	478	CMS-P1-PLOTTER-COVER	5144806	42
CD 100X100 WH	3240640	555	CD COVER 100 WH	3240643	555	CF 3000 LOC 0,25	1212377	478	CMS-P1-PLOTTER-KIT	5144628	42
CD 100X40	3240279	555	CD COVER 120	3240290	555	CF 3000 LOC 0,5	1205639	478	CMS-P1-PREPLATES	5145135	42
CD 100X40 BU	3240322	555	CD COVER 120 BU	3240329	555	CF 3000 LOC 0,75	1205642	478	CMS-P1-WMU-ADAPTER	5144822	44
CD 100X40 WH	3240637	555	CD COVER 120 WH	3240644	555	CF 3000 LOC 1,0	1205655	478	CMS-PEN 0,25	5067815	45
CD 100X60	3240195	555	CD COVER 25	3240285	555	CF 3000 LOC 1,5	1205668	478	CMS-PEN 0,35	5067828	45
CD 100X60 BU	3240323	555	CD COVER 25 BU	3240330	555	CF 3000 LOC 2,5	1205671	478	CMS-PEN 0,50	5067831	45
CD 100X60 WH	3240638	555	CD COVER 25 WH	3240645	555	CF 3000-2,5	1205477	478	CMS-R-FLUID-TR-C2	5146752	45
CD 100X80	3240201	555	CD COVER 30	3240295	555	CF 3000-2,5 120V	1205516	478	CMS-R-SET-TR	5146751	45
CD 100X80 BU	3240324	555	CD COVER 30 BU	3240331	555	CF 3000-TOOLKIT 0,25	1212376	478	CRIMPFOX 10	1212721	389
CD 100X80 WH	3240639	555	CD COVER 30 WH	3240646	555	CF 500-120V	1208351	474	CRIMPFOX 10S	1212045	392
CD 120X60	3240196	555	CD COVER 40	3240286	555	CF 500-230V	1208348	474	CRIMPFOX 10S CUS	1212764	439
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CRIMPFOX 6/DIE	1212035	389	CRIMPFOX-M CX-7/DIE	1212748	406	CUTFOX 25	1212130	361	E1 S6 A 260X260X160	0899020	489
CRIMPFOX 6H	1212046	392	CRIMPFOX-M CX-8/DIE	1212749	406	CUTFOX 25 VDE	1212127	363	E1 S6 A 260X380X160	0899030	489
CRIMPFOX 6H CUS	1212768	439	CRIMPFOX-M HS-1/DIE	1212282	406	CUTFOX 35	1212131	361	E1 S6 A 300X300X160	0899026	489
CRIMPFOX 6S-F	1212043	391	CRIMPFOX-M HS/DIE	1219092	406	CUTFOX 45	1212132	360	E1 S6 A 300X500X160	0899040	489
CRIMPFOX 6S-F CUS	1212769	437	CRIMPFOX-M RC 10-1/DIE	1212744	406	CUTFOX 50 STEEL	1212526	360	E1 S6 A 350X500X160	0899044	489
CRIMPFOX 6T	1212037	390	CRIMPFOX-M RC 10/DIE	1212077	406	CUTFOX 52	1212133	360	E1 S6 A 380X380X160	0899032	489
CRIMPFOX 6T CUS	1212770	437	CRIMPFOX-M RC 2,5/DIE	1212078	406	CUTFOX 62	1212134	361	E1 S6 A 382X458X160	0899036	489
CRIMPFOX 6T-F	1212038	391	CRIMPFOX-M RC 6/DIE	1212079	406	CUTFOX FB	1205985	362	E1 S6 A 400X260X160	0899022	489
CRIMPFOX 6T-F CUS	1212771	437	CRIMPFOX-M RCI 2,5/DIE	1212074	406	CUTFOX-CD	1212474	369	E1 S6 A 400X300X160	0899028	489
CRIMPFOX 4 IN 1	1200101	387	CRIMPFOX-M RCI 6/DIE	1212073	406	CUTFOX-ES	1212621	360	E1 S6 A 400X500X160	0899042	489
CRIMPFOX 4 IN 1 SET	1200102	387	CRIMPFOX-M RJ11/DIE	1212091	406	CUTFOX-FBS	1212124	362	E1 S6 A 450X620X160	0899046	489
CRIMPFOX 4 IN 1/MAG	1200103	387	CRIMPFOX-M RJ45/DIE	1212090	406	CUTFOX-LB VDE	1212527	363	E1 S6 A 480X480X160	0899038	489
CRIMPFOX-C 10P/DIE	1212739	407	CRIMPFOX-M SC 1/DIE	1212083	406	CUTFOX-S VDE	1212207	363	E1 S6 A 500X400X160	0899034	489
CRIMPFOX-C D	1212734	407	CRIMPFOX-M SC 2,5/DIE	1212084	406	CUTFOX-S VDE M	1212830	363	EA 4	0805360	528
CRIMPFOX-C MMJ/DIE	1212740	407	CRIMPFOX-M SC 6-FL/DIE	1212741	406	CUTFOX-SE	1212832	364	EA 5	1024014	528
CRIMPFOX-C RJ11/DIE	1212735	407	CRIMPFOX-M SC 6/DIE	1212742	406	CUTFOX-SE LM	1212833	364	EA 5-WS	1024085	528
CRIMPFOX-C RJ22/DIE	1212736	407	CRIMPFOX-M SCA 2,5-1/DIE	1212743	406	CUTFOX-SP BOLT VDE	1212831	364	EA 7	1024250	528
CRIMPFOX-C RJ45/DIE	1212737	407	CRIMPFOX-M SCA 2,5/DIE	1212742	406	CUTFOX-SP VDE	1212206	363	EA 11	1024263	528
CRIMPFOX-C RJ45U/DIE	1212738	407	CRIMPFOX-M SET	1212093	405	DUSPOL EXPERT	1209091	426	EC 10	3240176	537
CRIMPFOX-C120	1212318	399	CRIMPFOX-M SR 6-1/DIE	1212471	406				EC 10 BK	3240177	537
CRIMPFOX-C120 AI 120/DIE	1209910	399	CRIMPFOX-M SR 6-2/DIE	1212472	406				EC 16	3240179	537
CRIMPFOX-C120 AI 50/F-DIE	1212337	399	CRIMPFOX-M SR 6-3/DIE	1212473	406				EC 16 BK	3240180	537
CRIMPFOX-C120 AI 70/F-DIE	1212338	399	CRIMPFOX-M TC 10/DIE	1212076	406				EC 16 P TR	3240182	535
CRIMPFOX-C120 AI 70/M-DIE	1212335	399	CRIMPFOX-M TC 4/DIE	1212075	406				EC 2,5 P TR	3240167	534
CRIMPFOX-C120 AI 95/F-DIE	1212339	399	CRIMPFOX-RC 10	1212061	397				EC 25	3240183	537
CRIMPFOX-C120 AI 95/M-DIE	1212336	399	CRIMPFOX-RC 10 CUS	1212776	439				EC 25 BK	3240184	537
CRIMPFOX-C120 R25-50/DIE	1212324	399	CRIMPFOX-RC 2,5	1212063	396				EC 4	3240168	536
CRIMPFOX-C120 R35-70/DIE	1212325	399	CRIMPFOX-RC 2,5 CUS	1212777	437				EC 4 BK	3240169	536
CRIMPFOX-C120 R95/DIE	1212326	399	CRIMPFOX-RC 2,5-M	1212723	396				EC 4 P TR	3240171	535
CRIMPFOX-C120 RC 35/F-DIE	1212332	399	CRIMPFOX-RC 25	1212065	397				EC 6	3240172	536
CRIMPFOX-C120 RC 50/F-DIE	1212333	399	CRIMPFOX-RC 25 CUS	1212778	439	E AB A 130X80X60 12PT	3001999	497	EC 6 BK	3240173	536
CRIMPFOX-C120 RC 70/F-DIE	1212334	399	CRIMPFOX-RC 6	1212710	397	E AB A 130X80X60 12TB	3002003	499	EC 6 P TR	3240175	535
CRIMPFOX-C120 RC 70/M-DIE	1212331	399	CRIMPFOX-RC 6-M	1212724	396	E AB A 180X130X100 20PT	3002001	497	EK 116	0401010	531
CRIMPFOX-C120 RCI 10/DIE	1212327	399	CRIMPFOX-RCI 1	1212055	394	E AB A 180X130X100 20TB	3002004	499	EK 135	0401023	531
CRIMPFOX-C120 RCI 16/DIE	1212328	399	CRIMPFOX-RCI 1 CUS	1212772	437	E AB A 85X83X60 6PT	3001998	496	EM-DUO 120/15	5600461	541
CRIMPFOX-C120 RCI 25/DIE	1212329	399	CRIMPFOX-RCI 1-M	1212727	394	E AB A 85X83X60 6TB	3002002	498	EM-DUO/120/15/GFI	5600462	541
CRIMPFOX-C120 RCT 35/DIE	1212330	399	CRIMPFOX-RCI 2,5	1212053	394	E S6 A 100X100X80	0899000	486	EMG 45-SD-D/LA/SI	2943738	540
CRIMPFOX-C120 RCT 120-1/DIE	1212323	399	CRIMPFOX-RCI 2,5 CUS	1212773	437	E S6 A 120X120X100	0899009	486	EMG 45-SD-D/LA/SI YE	2940825	540
CRIMPFOX-C120 RCT 35-1/DIE	1212320	399	CRIMPFOX-RCI 2,5-M	1212728	394	E S6 A 150X100X80	0899001	486	EMG 90-2SD-D/LA	2941523	540
CRIMPFOX-C120 RCT 50-1/DIE	1212321	399	CRIMPFOX-RCI 6	1212057	395	E S6 A 150X150X100	0899010	487	EML (100X73)R	0817125	264
CRIMPFOX-C120 RCT 70-1/DIE	1212319	399	CRIMPFOX-RCI 6 CUS	1212774	437	E S6 A 150X150X80	0899003	487	EML (100X73)R YE	0817138	265
CRIMPFOX-C120 RCT 95-1/DIE	1212322	399	CRIMPFOX-RCI 6-1	1212059	395	E S6 A 200X100X80	0899002	486	EML (100X90)R	0817154	264
CRIMPFOX-C50	1212340	399	CRIMPFOX-RCI 6-1 CUS	1212775	437	E S6 A 200X150X80	0899004	487	EML (100X90)R SR	0817141	265
CRIMPFOX-C50 R25-35/DIE	1212349	399	CRIMPFOX-RCI 6-M	1212730	395	E S6 A 200X200X120	0899011	487	EML (10X4)R	0815583	264
CRIMPFOX-C50 R35-50/DIE	1212350	399	CRIMPFOX-RCI DIN 6	1212279	395	E S6 A 200X200X160	0899017	488	EML (10X7)R	0816663	264
CRIMPFOX-C50 R50-70/DIE	1212351	399	CRIMPFOX-RCT 16-1	1212731	398	E S6 A 200X200X80	0899007	487	EML (10X7)R YE	0816676	265
CRIMPFOX-C50 RC 25/F-DIE	1212344	399	CRIMPFOX-RCT 25-1	1212066	398	E S6 A 200X300X120	0899015	487	EML (110XE)R	0815596	266
CRIMPFOX-C50 RC 35/F-DIE	1212345	399	CRIMPFOX-RCT 70-1	1212732	398	E S6 A 200X300X160	0899023	488	EML (110XE)R YE	0815606	267
CRIMPFOX-C50 RC 35/M-DIE	1212343	399	CRIMPFOX-SC 1,5	1212048	400	E S6 A 260X260X160	0899019	488	EML (15X9)R	0815677	264
CRIMPFOX-C50 RCI 10/DIE	1212346	399	CRIMPFOX-SC 1,5 CUS	1212779	437	E S6 A 260X300X200	0899077	490	EML (15X9)R YE	0816045	265
CRIMPFOX-C50 RCI 16/DIE	1212347	399	CRIMPFOX-SC 1,5-M	1212725	400	E S6 A 260X380X160	0899029	488	EML (16,5X5)R	0816702	264
CRIMPFOX-C50 RCI 25/DIE	1212348	399	CRIMPFOX-SC 1,5/DIE	1212049	400	E S6 A 300X150X80	0899005	487	EML (16,5X5)R YE	0816728	265
CRIMPFOX-C50 RCT 35-1/DIE	1212341	399	CRIMPFOX-SC 6	1212050	401	E S6 A 300X200X120	0899012	487	EML (16,5X5)RL	0816113	266
CRIMPFOX-C50 RCT 50-1/DIE	1212342	399	CRIMPFOX-SC 6 CUS	1212780	439	E S6 A 300X200X80	0899008	487	EML (16,5X5)RL YE	0816126	267
CRIMPFOX-CATV 8,23	1212716	404	CRIMPFOX-SC 6/DIE	1212051	401	E S6 A 300X300X120	0899016	487	EML (16X7)R	0818001	264
CRIMPFOX-CATV 8,23-1	1212717	404	CRIMPFOX-SC 6L	1212052	401	E S6 A 300X300X160	0899025	488	EML (16X7)R YE	0816731	265
CRIMPFOX-CX 10,54	1212097	403	CRIMPFOX-SCA 2,5-M	1212726	401	E S6 A 300X300X200	0899078	490	EML (17,5X8)R	0816744	264
CRIMPFOX-CX 10,90	1212098	403	CRIMPFOX-SR 6-1	1212467	405	E S6 A 300X400X200	0899079	490	EML (17,5X8)R YE	0816757	265
CRIMPFOX-CX 10,90-1	1212715	403	CRIMPFOX-SR 6-2	1212468	405	E S6 A 300X500X160	0899039	488	EML (17,5X8)RL YE	0816139	267
CRIMPFOX-CX 4,52	1212094	403	CRIMPFOX-SR 6-3	1212469	405	E S6 A 350X500X160	0899043	488	EML (19X6)R	0816760	264
CRIMPFOX-CX 4,52-M	1212713	403	CRIMPFOX-TC 10	1212114	402	E S6 A 380X380X160	0899031	488	EML (19X6)R YE	0800107	265
CRIMPFOX-CX 5,41-M	1212712	403	CRIMPFOX-TC 10/DIE	1212296	402	E S6 A 382X458X160	0899035	488	EML (19X6,4)RL	0816142	266
CRIMPFOX-CX 6,48	1212095	403	CRIMPFOX-TC 4	1212113	402	E S6 A 400X150X80	0899006	487	EML (20X7)R YE	0816773	265
CRIMPFOX-CX 6,48-M	1212714	403	CRIMPFOX-TC 4/DIE	1212295	402	E S6 A 400X200X120	0899013	487	EML (20X8)R	0816786	264
CRIMPFOX-CX 7,06 HD-M	1212718	403	CRIMPFOX-TC MP	1212510	402	E S6 A 400X260X160	0899021	488	EML (20X8)R YE	0816799	265
CRIMPFOX-CX 9,14	1212096	403	CRIMPFOX-TC MP-1	1212620	402	E S6 A 400X300X160	0899027	488	EML (21,5X21,5)R SR	0816812	265
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PML-W302 (52X26)	0830465	325	PPS-ST (3,8)	1204892	371	SD-D/SC	2963310	540	SF-BIT-TX 25-50	1212585	420
PML-W302 (74X37)	0830466	325	PPS-ST (4,3)	1202616	371	SD-D/SC/GY	2963815	540	SF-BIT-TX 30-50	1212586	420
PML-W302 (105X52)	0830471	325	PPS-ST (4,5X12)L	1203534	371	SD-D/SC/LA	2964898	540	SF-BIT-TX 8-50	1212570	420
PML-W303 (200X100)	0830472	325	PPS-ST (4,5X12)Q	1203547	371	SD-D/SC/LA/GY	2963491	540	SF-CKK 9	1212525	425
PML-W303 (52X26)	0830469	325	PPS-ST (5,3)	1202629	371	SD-D/SC/LA/YE	2963404	540	SF-LHEX SET	1212544	429
PML-W303 (74X37)	0830470	325	PPS-ST (5,5X12)L	1202603	371	SD-D/SC/YE	2963459	540	SF-M BH	1212070	418
PML-W304 (105X52)	0830475	325	PPS-ST (5,5X12)Q	1203411	371	SD-D/SP	2963323	540	SF-M SET	1212543	435
PML-W304 (200X100)	0830476	325	PPS-ST (6,4)	1202632	371	SD-D/SP/GY	2963501	540	SF-M SET 2	1212756	435
PML-W304 (52X26)	0830473	325	PPS-ST (6,5X15)L	1202593	371	SD-D/SP/LA	2963307	540	SF-PH 2-100	1212558	415
PML-W304 (74X37)	0830474	325	PPS-ST (6,5X15)Q	1203408	371	SD-D/SP/LA/GY	2963488	540	SF-PH 1-80	1212559	415
PML-W305 (105X52)	0830479	325	PPS-ST (7,0)	1204889	371	SD-D/SP/LA/YE	2963475	540	SF-PH 1-80 S-VDE	1212693	411
PML-W305 (200X100)	0830480	325	PPS-ST (8,4)	1202726	371	SD-D/SP/YE	2963462	540	SF-PH 2-100	1212560	415
PML-W305 (52X26)	0830477	325	PROFILPOL	1209101	426	SD-F/SC	2963352	541	SF-PH 2-100 S-VDE	1212694	411
PML-W305 (74X37)	0830478	325	PT/FS 2,8	1406700	462	SD-F/SC/GY	2963828	541	SF-PH 3-150	1212561	415
PMLP-RFID/HF (110X38)	0831030	312	PT/FS 4,8	1670497	462	SD-F/SC/LA	2963336	541	SF-PHSL 1-80 S-VDE	1212697	411
PMLP-RFID/HF (90X38)	0830956	312	PT/FS 6,3	0604707	462	SD-F/SC/LA/GY	2963844	541	SF-PHSL 1-80 VDE	1212283	415
PMLP-RFID/UHF (110X38)	0831031	312				SD-F/SC/LA/YE	2963909	541	SF-PHSL 2-100 S-VDE	1212698	411
PMLP-RFID/UHF (90X38)	0830957	312				SD-F/SP/LA	2963349	541	SF-PHSL 2-100 VDE	1212288	415
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PMM (EX20)R SR	1014304	355				SD-US/SC/LA/GY	2963860	541	SF-PZ 1-80	1212563	415
PMM (EX20)R YE	1014305	355				SD-WMTB (100X10)	0826543	211	SF-PZ 1-80 S-VDE	1212695	411
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PMM (EX25)R SR	1014307	355				SD-WMTB (30X10) VA	0826569	212	SF-PZ 2-100 S-VDE	1212696	411
PMM (EX25)R YE	1014308	355				SD-WMTB (47X10) VA	0826572	212	SF-PZ 3-150	1212565	415
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PMM (EX30)R SR	1014310	355				SD-WMTB (70X10) VA	0826585	212	SF-PZSL 1-80 VDE	1212566	415
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PMM (EX40)R SR	1014313	355				SD-WMTBS (CH) YE	0826611	211	SF-SL 0,4X2,0-60	1212546	409
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SZS 1,0X4,0 VDE	1205066	408	THERMOMARK ROLL-CUTTER/P	5146435	36	TOOL-CASE CUS	1200072	440	UC-EMLP (17X15)	0827885	240
SZS 1,0X5,5 VDE	1209114	408	THERMOMARK ROLL-ERH	5146448	36	TOOL-CASE EMPTY	1212628	440	UC-EMLP (17X15) SR	0827887	240
SZS 1,0X6,5 VDE	1205079	408	THERMOMARK W2	5146147	41	TOOL-CASE EMPTY CUS	8191312	442	UC-EMLP (17X15) YE	0827886	240
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UC-WMT (30X4) VT	0825364	171	UC2-TM 6	0821674	108	UCT-TM 5 BU	0829157	76	UCT-TMF 8 RD	0829199	79
UC-WMT (30X4) YE	0819440	171	UC2-TM 8	0821755	108	UCT-TM 5 GN	0829158	76	UCT-TMF 8 VT	0829201	79
UC-WMTB (44X15)	0828376	172	UC2F-TM 4	0822178	109	UCT-TM 5 OG	0829155	76	UCT-TMF 8 YE	0828749	79
UC-WMTB (44X15) BN	0828384	172	UC2F-TM 5	0822181	109	UCT-TM 5 RD	0829154	76	UCT-WMCO 2,9 (12X4)	0830780	177
UC-WMTB (44X15) BU	0828381	172	UC2F-TM 6	0822194	109	UCT-TM 5 VT	0829156	76	UCT-WMCO 2,9 (12X4) YE	0831204	177
UC-WMTB (44X15) GN	0828382	172	UC2F-TM 8	0822204	109	UCT-TM 5 YE	0828735	76	UCT-WMCO 2,9 (18X4)	0830781	177
UC-WMTB (44X15) OG	0828378	172	UC3-TM 5	0822369	110	UCT-TM 6	0828736	76	UCT-WMCO 2,9 (18X4) YE	0831205	177
UC-WMTB (44X15) RD	0828377	172	UC3-TM 6	0822385	110	UCT-TM 6 BU	0829162	76	UCT-WMCO 3,5 (12X4)	0830782	177
UC-WMTB (44X15) SR	0828383	172	UC3-TM 8	0822408	110	UCT-TM 6 GN	0829163	76	UCT-WMCO 3,5 (12X4) YE	0831206	177
UC-WMTB (44X15) VT	0828380	172	UCT-EM (10X5)	0801470	249	UCT-TM 6 OG	0829160	76	UCT-WMCO 3,5 (18X4)	0830783	177
UC-WMTB (44X15) YE	0828379	172	UCT-EM (10X7)	0801498	249	UCT-TM 6 RD	0829159	76	UCT-WMCO 3,5 (18X4) YE	0831207	177
UC-WMTB (52X30)	5775288	172	UCT-EM (10X7) TQ	0801499	249	UCT-TM 6 VT	0829161	76	UCT-WMCO 4,1 (12X4)	0830784	177
UC-WMTB (52X50)	5775289	172	UCT-EM (10X8)	0801485	249	UCT-TM 6 YE	0828737	76	UCT-WMCO 4,1 (12X4) YE	0831208	177
UC-WMTBA (24X5)	0820426	173	UCT-EM (10X8) TQ	0801486	249	UCT-TM 7,62	0828738	77	UCT-WMCO 4,1 (18X4)	0830785	177
UC-WMTBA (24X5) BU	0820552	173	UCT-EM (12X3,3)	0801502	250	UCT-TM 7,62 BU	0829513	77	UCT-WMCO 4,1 (18X4) YE	0831209	177
UC-WMTBA (24X5) GN	0825343	173	UCT-EM (12X6)	0801503	250	UCT-TM 7,62 GN	0829514	77	UCT-WMCO 4,7 (12X4)	0830786	177
UC-WMTBA (24X5) OG	0825342	173	UCT-EM (12X7)	0801501	250	UCT-TM 7,62 OG	0829511	77	UCT-WMCO 4,7 (12X4) YE	0831210	177
UC-WMTBA (24X5) RD	0820565	173	UCT-EM (15X10)	0801504	250	UCT-TM 7,62 RD	0829510	77	UCT-WMCO 4,7 (18X4)	0830787	177
UC-WMTBA (24X5) VT	0825344	173	UCT-EM (17,5X7,5)	0801482	251	UCT-TM 7,62 VT	0829512	77	UCT-WMCO 4,7 (18X4) YE	0831211	177
UC-WMTBA (24X5) YE	0820439	173	UCT-EM (17,5X8)	0801496	252	UCT-TM 7,62 YE	0828739	77	UCT-WMS 3,2 (12X4)	0828570	176
UC-WMTBA (29X8)	0820183	173	UCT-EM (17,5X9)	0801491	252	UCT-TM 8	0828740	77	UCT-WMS 3,2 (12X4) YE	0828572	176
UC-WMTBA (29X8) BU	0820594	173	UCT-EM (17,5X9) YE	0801492	252	UCT-TM 8 BU	0829167	77	UCT-WMS 4,7 (12X5,5)	0828571	176
UC-WMTBA (29X8) GN	0825346	173	UCT-EM (17X10)	0801483	251	UCT-TM 8 GN	0829168	77	UCT-WMS 4,7 (12X5,5) YE	0828573	176
UC-WMTBA (29X8) OG	0825345	173	UCT-EM (17X10) YE	0801484	251	UCT-TM 8 OG	0829165	77	UCT-WMT (10X4)	0801430	174
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UC-WMTBA (29X8) SR	0802749	173	UCT-EM (17X9)	0801475	251	UCT-TM 8 VT	0829166	77	UCT-WMT (10X4) GN	0801435	174
UC-WMTBA (29X8) VT	0825347	173	UCT-EM (17X9) YE	0801476	251	UCT-TM 8 YE	0828741	77	UCT-WMT (10X4) OG	0801434	174
UC-WMTBA (29X8) YE	0820390	173	UCT-EM (18X8)	0801488	252	UCT-TMF 10	0829204	79	UCT-WMT (10X4) RD	0801433	174
UC-WMTBA (60X11)	0820468	173	UCT-EM (20X7)	0801494	252	UCT-TMF 10 BU	0829209	79	UCT-WMT (10X4) VT	0801436	174
UC-WMTBA (60X11) BU	0820633	173	UCT-EM (20X7) TQ	0801495	252	UCT-TMF 10 GN	0829210	79	UCT-WMT (10X4) YE	0801431	174
UC-WMTBA (60X11) GN	0825349	173	UCT-EM (20X8)	0801477	253	UCT-TMF 10 OG	0829206	79	UCT-WMT (12X4)	0801438	174
UC-WMTBA (60X11) OG	0825348	173	UCT-EM (20X9)	0801471	253	UCT-TMF 10 RD	0829205	79	UCT-WMT (12X4) BU	0801444	174
UC-WMTBA (60X11) RD	0820646	173	UCT-EM (20X9) TQ	0801473	253	UCT-TMF 10 VT	0829208	79	UCT-WMT (12X4) GN	0801442	174
UC-WMTBA (60X11) VT	0825350	173	UCT-EM (20X9) YE	0801472	253	UCT-TMF 10 YE	0829207	79	UCT-WMT (12X4) OG	0801441	174
UC-WMTBA (60X11) YE	0820471	173	UCT-EM (21X8)	0801489	253	UCT-TMF 12	0829214	79	UCT-WMT (12X4) RD	0801440	174
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UCT-WMT (15X4) YE	0801447	174	UM1-TM (3,5X12) YE	0833022	118	UM5-TM (5X10)	0830922	123	US-EMLP (27X8)	0828797	254
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UCT-WMT (18X4) GN	0801466	174	UM1-TM (5X10) GN	0833029	118	UM6M-TM (6X12)	0830926	123	US-EMLP (35X15)	0830300	255
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UCT-WMT (23X4) BU	0801460	175	UM1-TM (5X12) GN	0833039	118	UM7-TM (6X10)	0830931	125	US-EMLP (35X9) YE	0828899	255
UCT-WMT (23X4) GN	0801457	175	UM1-TM (5X12) OG	0833036	118	UM7-TM (8X10)	0830945	125	US-EMLP (40X10)	0830341	255
UCT-WMT (23X4) OG	0801456	175	UM1-TM (5X12) RD	0833035	118	UM8-TM (5X9)	0830946	125	US-EMLP (40X10) SR	0830328	255
UCT-WMT (23X4) RD	0801455	175	UM1-TM (5X12) YE	0833037	118	UM8-TM (6X9)	0830943	125	US-EMLP (40X10) YE	0830342	255
UCT-WMT (23X4) VT	0801426	175	UM1-TM (6X10)	0833093	118	UNIFOX-C VDE	1212202	365	US-EMLP (49X15)	0828803	255
UCT-WMT (23X4) YE	0801454	175	UM1-TM (6X10) BU	0833043	118	UNIFOX-C VDE M	1212834	365	US-EMLP (49X15) SR	0828902	255
UCT-WMT (30X4)	0801422	175	UM1-TM (6X10) GN	0833044	118	UNIFOX-C VDE	1212203	365	US-EMLP (49X15) YE	0828901	255
UCT-WMT (30X4) BU	0801428	175	UM1-TM (6X10) OG	0833041	118	UNIFOX-CT 4,8	1212475	366	US-EMLP (52,5X15)	0830301	255
UCT-WMT (30X4) GN	0801426	175	UM1-TM (6X10) RD	0833040	118	UNIFOX-CT 4,8P	1212609	366	US-EMLP (52,5X15) RD	0830324	255
UCT-WMT (30X4) OG	0801425	175	UM1-TM (6X10) YE	0833042	118	UNIFOX-CT M 7,9	1212610	366	US-EMLP (52,5X15) SR	0830323	255
UCT-WMT (30X4) RD	0801424	175	UM1-TM (6X12)	0830909	119	UNIFOX-F VDE	1212363	366	US-EMLP (52,5X15) YE	0830322	255
UCT-WMT (30X4) VT	0801427	175	UM1-TM (6X12) BU	0833053	119	UNIFOX-P VDE	1212204	365	US-EMLP (60X15)	0828804	255
UCT-WMT (30X4) YE	0801423	175	UM1-TM (6X12) GN	0833054	119	UNIFOX-PC VDE	1212205	365	US-EMLP (60X15) SR	0828904	255
UCT-WMTB (29X8)	0803321	179	UM1-TM (6X12) OG	0833051	119	UNIFOX-PE VDE	1212529	365	US-EMLP (60X15) YE	0828903	255
UCT-WMTB (29X8) BU	0803324	179	UM1-TM (6X12) RD	0833050	119	UNIFOX-R VDE	1212364	366	US-EMLP (60X30)	0828805	255
UCT-WMTB (29X8) GN	0803325	179	UM1-TM (6X12) YE	0833052	119	UNIFOX-RVT M	1212476	368	US-EMLP (60X30) SR	0828906	255
UCT-WMTB (29X8) GY	0803326	179	UM1-TM (8X10)	0830906	119	UNIFOX-RVT M/BIT 2,4L	1212477	368	US-EMLP (60X30) YE	0828905	255
UCT-WMTB (29X8) RD	0803323	179	UM1-TM (8X10) BU	0833058	119	UNIFOX-RVT P 4	1212478	553	US-EMLP (70X15)	0830302	255
UCT-WMTB (29X8) YE	0803322	179	UM1-TM (8X10) GN	0833059	119	UNIFOX-RVT P 6	1212509	553	US-EMLP (70X15) RD	0830327	255
UCT-WMTBA (24X4)	1014082	178	UM1-TM (8X10) OG	0833056	119	UNIFOX-WP	1212365	366	US-EMLP (70X15) SR	0830326	255
UCT-WMTBA (24X4) YE	1014083	178	UM1-TM (8X10) RD	0833055	119	UNIFOX-WRENCH	1212835	367	US-EMLP (70X15) YE	0830325	255
UCT-WMTBA (29X6)	1014084	178	UM1-TM (8X10) YE	0833057	119	US-EML (104X140)	0800465	261	US-EMLP (8,8X15)	0830303	254
UCT-WMTBA (29X6) YE	1014085	178	UM1-TM (8X12)	0830920	119	US-EML (104X140) SR	0800466	261	US-EMLP (8,8X15) RD	0830318	254
UCT-WMTBA (40X17)	1014086	178	UM1-TM (8X12) BU	0833063	119	US-EML (104X140) YE	0800467	261	US-EMLP (8,8X15) SR	0830317	254
UCT1-TM 5	0829482	111	UM1-TM (8X12) GN	0833064	119	US-EML (104X3,8)	0800464	261	US-EMLP (8,8X15) YE	0830316	254
UCT1-TM 5 BU	0829229	111	UM1-TM (8X12) OG	0833061	119	US-EML (17,5X8)	0800461	261	US-EMLP (85,6X54)	0828806	255
UCT1-TM 5 GN	0829230	111	UM1-TM (8X12) RD	0833060	119	US-EML (17,5X8) YE	0800463	261	US-EMLP (85,6X54) RD	0830841	255
UCT1-TM 5 OG	0829227	111	UM1-TM (8X12) YE	0833062	119	US-EML (20X8)	0800458	261	US-EMLP (85,6X54) SR	0828908	255
UCT1-TM 5 RD	0829226	111	UM1-TMF (3,5X5)	0830935	121	US-EML (20X8) YE	0800460	261	US-EMLP (85,6X54) YE	0828907	255
UCT1-TM 5 YE	0829228	111	UM1-TMF (3,5X5) BU	0833003	121	US-EMLF (104X140)	1014291	262	US-EMLP-HA (17X7)	0830988	256
UCT1-TM 6	0829483	111	UM1-TMF (3,5X5) GN	0833004	121	US-EMLF (104X140) BU	1014293	262	US-EMLP-HA (20X9)	0830989	256
UCT1-TM 6 BU	0829235	111	UM1-TMF (3,5X5) OG	0833001	121	US-EMLF (104X140) YE	1014292	262	US-EMLP-HA (60X30)	0830990	256
UCT1-TM 6 GN	0829236	111	UM1-TMF (3,5X5) RD	0833000	121	US-EMLF (104X70)	1014294	262	US-EMLP-HA (60X30) SR	0830991	256
UCT1-TM 6 OG	0829233	111	UM1-TMF (3,5X5) YE	0833002	121	US-EMLF (104X70) BU	1014296	262	US-EMLP-HA (85,6X54)	0830992	256
UCT1-TM 6 RD	0829232	111	UM1-TMF (5X5)	0830902	121	US-EMLF (104X70) YE	1014295	262	US-EMLP-HA (85,6X54) SR	0830993	256
UCT1-TM 6 YE	0829234	111	UM1-TMF (5X5) BU	0833008	121	US-EMLP (100X60)	0828807	255	US-EMLSP (28X10)	0830343	260
UCT1-TMF 5	0829237	111	UM1-TMF (5X5) GN	0833009	121	US-EMLP (100X60) SR	0828910	255	US-EMLSP (28X10) SR	0830329	260
UCT1-TMF 5 BU	0829241	111	UM1-TMF (5X5) OG	0833006	121	US-EMLP (100X60) YE	0828909	255	US-EMLSP (28X10) YE	0830344	260
UCT1-TMF 5 GN	0829242	111	UM1-TMF (5X5) RD	0833005	121	US-EMLP (104X135)	0830304	255	US-EMP (100X15)	0829521	257
UCT1-TMF 5 OG	0829239	111	UM1-TMF (5X5) YE	0833007	121	US-EMLP (104X135) SR	0830306	255	US-EMP (100X15) SR	0829523	257
UCT1-TMF 5 RD	0829238	111	UM1-TMF (6X5)	0830904	121	US-EMLP (104X135) YE	0830305	255	US-EMP (100X15) YE	0829522	257
UCT1-TMF 5 YE	0829240	111	UM1-TMF (6X5) BU	0833013	121	US-EMLP (11X9)	0828789	254	US-EMP (17X15)	0828774	257
UCT1-TMF 6	0829243	111	UM1-TMF (6X5) GN	0833014	121	US-EMLP (11X9) SR	0828872	254	US-EMP (17X15) SR	0828843	257
UCT1-TMF 6 BU	0829247	111	UM1-TMF (6X5) OG	0833011	121	US-EMLP (11X9) YE	0828871	254	US-EMP (17X15) YE	0828842	257
UCT1-TMF 6 GN	0829248	111	UM1-TMF (6X5) RD	0833010	121	US-EMLP (15X5)	0828790	254	US-EMP (20X9)	0829439	257
UCT1-TMF 6 OG	0829245	111	UM1-TMF (6X5) YE	0833012	121	US-EMLP (15X5) SR	0828874	254	US-EMP (25X6)	0829435	257
UCT1-TMF 6 RD	0829244	111	UM1-TMF (8X5)	0830924	121	US-EMLP (15X5) YE	0828873	254	US-EMP (25X6)-1	0802754	257
UCT1-TMF 6 YE	0829246	111	UM1-TMF (8X5) BU	0833018	121	US-EMLP (17,5X15)	0830839	254	US-EMP (27,9X17,4)	0830980	257
UCT1U-TM 5	0803204	111	UM1-TMF (8X5) GN	0833019	121	US-EMLP (17X15) SR	0828880	254	US-EMP (27,9X17,4) SR	0803300	257
UCT2-TM 5/6	0829249	112	UM1-TMF (8X5) OG	0833016	121	US-EMLP (17X15) YE	0828879	254	US-EMP (27X12,5)	0828776	257
UCT3-TM 5	0829251	112	UM1-TMF (8X5) RD	0833015	121	US-EMLP (17X7)	0828792	254	US-EMP (27X12,5) SR	0828847	257
UCT3-TM 6	0829252	112	UM1-TMF (8X5) YE	0833017	121	US-EMLP (17X7) SR	0828878	254	US-EMP (27X12,5) YE	0828846	257
UCT5-TM 5	0828750	113	UM1U-TM (5X10)	0830910	120	US-EMLP (17X7) YE	0828877	254	US-EMP (27X15)	0828777	257
UCT5-TM 6	0828752	113	UM1U-TM (5X10) BU	0833033	120	US-EMLP (20X9)	0828795	254	US-EMP (27X15) SR	0828849	257
UCT6M-TM 5	0830756	114	UM1U-TM (5X10) GN	0833034	120	US-EMLP (20X9) SR	0828884	254	US-EMP (27X15) YE	0828848	257
UCT6M-TM 6	0830757	114	UM1U-TM (5X10) OG	0833031	120	US-EMLP (20X9) YE	0828883	254	US-EMP (27X18)	0828778	257
UCT6M-TM 8	0830758	114	UM1U-TM (5X10) RD	0833030	120	US-EMLP (22X22)	0828796	254	US-EMLP (27X18) SR	0828851	257
UCT6R-TM 5	0830753	115	UM1U-TM (5X10) YE	0833032	120	US-EMLP (22X22) SR	0828886	254	US-EMP (27X18) YE	0828850	257
UCT6R-TM 6	0830754	115	UM1U-TM (6X10)	0830907	120	US-EMLP (22X22) YE	0828885	254	US-EMP (27X27)	0828779	257
UCT6R-TM 8	0830755	115	UM1U-TM (6X10) BU	0833048	120	US-EMLP (27X12,5)	0828798	254	US-EMP (27X27) SR	0828853	257
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UM1-TM (12X10) BU	0833068	119	UM1U-TM (6X10) OG	0833046	120	US-EMLP (27X12,5) YE	0828891	254	US-EMP (27X8)	0828775	257
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US-EMP (35X15) SR	0830308	258	US-WMT (15X4) OG	0829288	181	WG-D HF 12,7	3241103	597	WIREFOX-MP VDE	1212528	379
US-EMP (35X15) YE	0830307	258	US-WMT (15X4) RD	0829287	181	WG-D HF 12,7 BK	3241104	597	WM-CARRIER/B (48X10)LPR	0830423	199
US-EMP (35X9)	0830842	257	US-WMT (15X4) VT	0829290	181	WG-D HF 16	3241105	597	WM-CARRIER/B (55X15)LPR	0830424	199
US-EMP (35X9) SR	0830844	257	US-WMT (15X4) YE	0828954	181	WG-D HF 16 BK	3241106	597	WM-CARRIER/B (85X15)LPR	0830425	199
US-EMP (35X9) YE	0830843	257	US-WMT (18X4)	0828768	181	WG-D HF 20,3	3241107	597	WML 12 (25X19)R	0800076	185
US-EMP (40X17)	0829437	257	US-WMT (18X4) BU	0829298	181	WG-D HF 20,3 BK	3241108	597	WML 14 (25X19)A4	0830693	184
US-EMP (44X7)	0829438	257	US-WMT (18X4) GN	0829299	181	WG-D HF 7,6	3241099	597	WML 14 (25X19)A4 YE	0830694	184
US-EMP (49X15)	0828780	257	US-WMT (18X4) OG	0829295	181	WG-D HF 7,6 BK	3241100	597	WML 14 (25X19)R	0817536	185
US-EMP (49X15) SR	0828855	257	US-WMT (18X4) VT	0829294	181	WG-S HF 120	3241121	575	WML 14 (25X19)R YE	0817549	185
US-EMP (49X15) YE	0828854	257	US-WMT (18X4) YE	0829297	181	WG-S HF 120 BK	3241122	575	WML 14 (25X19)RL	0830678	185
US-EMP (52,5X15)	0830296	258	US-WMT (18X4) YE	0828955	181	WG-S HF 15	3241109	575	WML 14 (38X19)R	0817552	185
US-EMP (52,5X15) RD	0830312	258	US-WMT (23X4)	0828769	181	WG-S HF 15 BK	3241110	575	WML 14 (38X19)R YE	0830675	185
US-EMP (52,5X15) SR	0830311	258	US-WMT (23X4) BU	0829005	181	WG-S HF 150	3241123	575	WML 14 (38X19)RL	0830679	185
US-EMP (52,5X15) YE	0830310	258	US-WMT (23X4) GN	0829306	181	WG-S HF 150 BK	3241124	575	WML 18 (12X12)R	0817507	185
US-EMP (60X15)	0828781	257	US-WMT (23X4) OG	0829302	181	WG-S HF 20	3241111	575	WML 20 (31X25)R	0828457	185
US-EMP (60X15) SR	0828857	257	US-WMT (23X4) RD	0829301	181	WG-S HF 20 BK	3241112	575	WML 22 (25X25)R	0800078	185
US-EMP (60X15) YE	0828856	257	US-WMT (23X4) VT	0829304	181	WG-S HF 40	3241113	575	WML 22 (35X25)A4	0830695	184
US-EMP (60X30)	0828782	257	US-WMT (23X4) YE	0828956	181	WG-S HF 40 BK	3241114	575	WML 22 (35X25)A4 YE	0830696	184
US-EMP (60X30) SR	0828859	257	US-WMT (30X4)	0828770	181	WG-S HF 50	3241115	575	WML 3 (13X10)A4	0830687	184
US-EMP (60X30) YE	0828858	257	US-WMT (30X4) BU	0829312	181	WG-S HF 50 BK	3241116	575	WML 3 (13X10)A4 YE	0830688	184
US-EMP (70X17)	0830297	258	US-WMT (30X4) GN	0829313	181	WG-S HF 70	3241117	575	WML 3 (13X10)R	0800073	185
US-EMP (70X15) RD	0830315	258	US-WMT (30X4) OG	0829309	181	WG-S HF 70 BK	3241118	575	WML 36 (25X38)A4	0830697	184
US-EMP (70X15) SR	0830314	258	US-WMT (30X4) RD	0829308	181	WG-S HF 80	3241119	575	WML 36 (25X38)A4 YE	0830698	184
US-EMP (70X15) YE	0830313	258	US-WMT (30X4) VT	0829311	181	WG-S HF 80 BK	3241120	575	WML 36 (25X38)R	0817510	185
US-EMP (8,8X15)	0830293	258	US-WMT (30X4) YE	0828957	181	WIREFOX 10	1212150	377	WML 46 (25X38)R	0800067	185
US-EMP (8,8X15) RD	0830428	258	US-WMTB (24X5)	0828771	182	WIREFOX 10 CUS	1212760	439	WML 5 (25X10)A4	0830689	184
US-EMP (8,8X15) SR	0830427	258	US-WMTB (24X5) BU	0829324	182	WIREFOX 10 VDE	1212366	379	WML 5 (25X10)A4 YE	0830690	184
US-EMP (8,8X15) YE	0830426	258	US-WMTB (24X5) GN	0829325	182	WIREFOX 10/SB	1212152	375	WML 5 (25X10)R	0817523	185
US-EMP (85,6X54)	0828783	257	US-WMTB (24X5) OG	0829321	182	WIREFOX 16	1212155	377	WML 5 (25X10)R YE	0830673	185
US-EMP (85,6X54) SR	0828861	257	US-WMTB (24X5) RD	0829320	182	WIREFOX 16 CUS	1212761	439	WML 5 (25X10)RL	0830676	185
US-EMP (85,6X54) YE	0828860	257	US-WMTB (24X5) VT	0829323	182	WIREFOX 16-1	1212157	378	WML 6 (13X13)R	0816252	185
US-EMSP (50X30)	0828786	259	US-WMTB (24X5) YE	0828958	182	WIREFOX 16-1/SB	1204944	378	WML 6 (13X13)R YE	0830674	185
US-EMSP (50X30) SR	0828928	259	US-WMTB (29X8)	0828772	182	WIREFOX 16/SB	1212153	375	WML 6 (13X13)RL	0830677	185
US-EMSP (50X30) YE	0828927	259	US-WMTB (29X8) BU	0829331	182	WIREFOX 2,5	1212368	374	WML 7,5 (13X13)R	0800074	185
US-EMSP (75,6X54)	0828787	259	US-WMTB (29X8) GN	0829332	182	WIREFOX 2,5/SB	1212369	374	WML 7,5 (17X9)R	0828444	185
US-EMSP (75,6X54) SR	0828930	259	US-WMTB (29X8) OG	0829328	182	WIREFOX 2,5/WS	1212370	374	WML 7,5 (25X13)A4	0830691	184
US-EMSP (75,6X54) YE	0828929	259	US-WMTB (29X8) RD	0829327	182	WIREFOX 4	1212156	376	WML 7,5 (25X13)A4 YE	0830692	184
US-EMSP (90X60)	0828788	259	US-WMTB (29X8) VT	0829330	182	WIREFOX 4 CUS	1212762	439	WML 7,5 (25X13)R	0800075	185
US-EMSP (90X60) BU	0803038	259	US-WMTB (29X8) YE	0828959	182	WIREFOX 4/SB	1212151	374	WML HF 14(25X19)R	0830818	186
US-EMSP (90X60) RD	0802937	259	US-WMTB (44X15)	0828773	182	WIREFOX 6SC	1212158	377	WML HF 14(25X19)R YE	0830819	186
US-EMSP (90X60) SR	0828932	259	US-WMTB (44X15) BU	0829338	182	WIREFOX 6SC CUS	1212763	439	WML HF 22(25X25)R	0830820	186
US-EMSP (90X60) YE	0828931	259	US-WMTB (44X15) GN	0829339	182	WIREFOX 6SC/SB	1212314	375	WML HF 22(25X25)R YE	0830821	186
US-PML-GHS100 (13X13)	1014287	348	US-WMTB (44X15) OG	0829335	182	WIREFOX ASI	1212154	379	WML HF 3(13X10)R	0830812	186
US-PML-GHS100 (25X25)	1014288	348	US-WMTB (44X15) RD	0829334	182	WIREFOX ASI/SB	1208076	379	WML HF 3(13X10)R YE	0830813	186
US-PML-M100 (D100)	1014177	334	US-WMTB (44X15) VT	0829337	182	WIREFOX FC	1212619	379	WML HF 36(25X38)R	0830822	186
US-PML-M100 (D50)	1014176	334	US-WMTB (44X15) YE	0828960	182	WIREFOX SAC	1212623	378	WML HF 36(25X38)R YE	0830823	186
US-PML-P100 (D100)	1014218	326	US2-TM 100	0829268	116	WIREFOX SAC-1	1212757	378	WML HF 5(25X10)R	0830814	186
US-PML-P100 (D50)	1014217	326	USA 10	1201578	525	WIREFOX-D 11	1212160	380	WML HF 5(25X10)R YE	0830815	186
US-PML-W100 (100X100)	1014127	320	USA 10/4,6	1202713	525	WIREFOX-D 11/SB	1212312	380	WML HF 7,5(25X13)R	0830816	186
US-PML-W100 (25X25)	1014125	320	USS 4	1203149	425	WIREFOX-D 13	1212162	381	WML HF 7,5(25X13)R YE	0830817	186
US-PML-W100 (50X50)	1014126	320				WIREFOX-D 16	1212173	381	WML-FLAG 6 (20X10)R	0830711	187
US-PML-W200 (100X100)	1014133	320				WIREFOX-D 28	1212174	381	WML-FLAG 6 (30X10)R	0830712	187
US-PML-W200 (25X25)	1014131	320				WIREFOX-D 40	1212161	381	WML-FLAG 6 (20X10)R	0830713	187
US-PML-W200 (50X50)	1014132	320				WIREFOX-D 40/SB	1212313	381	WML-FLAG 6 (30X10)R	0830714	187
US-TM 100	0829255	80				WIREFOX-D CX 6,35	1212733	383	WML-RFID/HF 14 (25X19)R	0803386	185
US-TMF 100	0829260	81	VAH	1201468	527	WIREFOX-D CX-1	1212163	382	WMS 12,7 (60X20)R	0800369	190
US-TML (104X10)	0830770	83	VDE-ISS 5	1203343	423	WIREFOX-D CX-1/SB	1212303	382	WMS 12,7 (60X20)R YE	0800403	190
US-TML (104X2,8)	0830767	82	VDE-ISS 6	1201934	423	WIREFOX-D CX-2	1212164	382	WMS 12,7 (60X20)RL YE	0803107	191
US-TML (104X3,8)	0830768	83	VDE-ISS 8	1201947	423	WIREFOX-D CX-2/SB	1212304	382	WMS 12,7 (EX20)R	0800294	192
US-TML (104X5)	0830769	83				WIREFOX-D CX-3	1212165	382	WMS 12,7 (EX20)R BK	0800422	193
US-WML 14 (25X19)	0800473	183				WIREFOX-D CX-3/SB	1212305	382	WMS 12,7 (EX20)R YE	0800305	193
US-WML 36 (25X25)	0800474	183				WIREFOX-D CX-4	1212166	382	WMS 12,7 (EX20)RL	0800325	192
US-WML 6 (13X13)	0800472	183				WIREFOX-D CX-4/SB	1212306	382	WMS 12,7 (EX20)RL BK	0800432	193
US-WMT (10X4)	0828765	180	WCC 14	3240252	557	WIREFOX-D CX-5	1212167	382	WMS 12,7 (EX20)RL YE	0800333	193
US-WMT (10X4) BU	0829277	180	WCC 18	3240253	557	WIREFOX-D CX-5/SB	1212307	382	WMS 19,1 (60X30)R	0800370	190
US-WMT (10X4) GN	0829278	180	WCC 22	3240254	557	WIREFOX-D CX-6	1212168	382	WMS 19,1 (60X30)R YE	0800404	190
US-WMT (10X4) OG	0829274	180	WCC 26	3240255	557	WIREFOX-D CX-6/SB	1212308	382	WMS 19,1 (60X30)RL YE	0803108	191
US-WMT (10X4) RD	0829273	180	WCC 30	3240256	557	WIREFOX-D CX-7	1212169	382	WMS 19,1 (EX30)R	0800295	192
US-WMT (10X4) VT	0829276	180	WCC 34	3240257	557	WIREFOX-D CX-7/SB	1212309	382	WMS 19,1 (EX30)R BK	0800423	193
US-WMT (10X4) YE	0828952	180	WCC 38	3240258	557	WIREFOX-D CX-8	1212170	382	WMS 19,1 (EX30)R YE	0800306	193
US-WMT (12X4)	0828766	181	WCC 42	3240259	557	WIREFOX-D CX-8/SB	1212310	382	WMS 19,1 (EX30)RL	0800326	192
US-WMT (12X4) BU	0829284	181	WCC 56	3240260	557	WIREFOX-D CX-9	1212171	382	WMS 19,1 (EX30)RL BK	0800434	193
US-WMT (12X4) GN	0829285	181	WCC 64	3240261	557	WIREFOX-D CX-9/SB	1212311	382	WMS 19,1 (EX30)RL YE	0800334	193
US-WMT (12X4) OG	0829281	181	WF 1000	1212149	471	WIREFOX-D SHIELD	1212172	378	WMS 2,4 (15X4)R	0800379	189
US-WMT (12X4) RD	0829280	181	WF 1000 120V	1212258	471	WIREFOX-D SR 6	1212507	383	WMS 2,4 (15X4)R YE	0800412	189
US-WMT (12X4) VT	0829283	181	WF 1000/COV	1212417	471	WIREFOX-D SR 6-1	1212511	383	WMS 2,4 (15X4)RL	0800389	191
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WMS 2,4 (30X4)RXL	0800394	191	WMS 9,5 (60X16)R YE	0800402	190	WP-BASE A PG29	3241081	577	WP-G BRASS IP40 M10	3241044	573
WMS 2,4 (60X4)R	0800363	189	WMS 9,5 (60X16)RL	08003105	191	WP-BASE A PG36	3241082	577	WP-G BRASS IP40 M12	3241045	573
WMS 2,4 (60X4)R YE	0800398	189	WMS 9,5 (60X16)RL YE	08003106	191	WP-BASE C PA HF 10,0 BK	3240958	576	WP-G BRASS IP40 M16	3241046	573
WMS 2,4 (60X4)RL	0800383	191	WMS 9,5 (EX16)R	0800293	192	WP-BASE C PA HF 13,0 BK	3240959	576	WP-G BRASS IP40 M20	3241047	573
WMS 2,4 (60X4)RXL	0800392	191	WMS 9,5 (EX16)R BK	0800421	193	WP-BASE C PA HF 15,8 BK	3240960	576	WP-G BRASS IP40 M25	3241048	573
WMS 2,4 (EX4)R	0800289	192	WMS 9,5 (EX16)R YE	0800304	193	WP-BASE C PA HF 21,2 BK	3240961	576	WP-G BRASS IP40 M32	3241049	573
WMS 2,4 (EX4)R BK	0800415	193	WMS 9,5 (EX16)RL	0800324	192	WP-BASE C PA HF 28,2 BK	3240962	576	WP-G BRASS IP40 M40	3241050	573
WMS 2,4 (EX4)R YE	0800300	193	WMS 9,5 (EX16)RL BK	0800431	193	WP-BASE C PA HF 34,5 BK	3240963	576	WP-G BRASS IP40 PG11	3241039	572
WMS 2,4 (EX4)RL	0800319	192	WMS 9,5 (EX16)RL YE	0800332	193	WP-BASE C PA HF 42,5 BK	3240964	576	WP-G BRASS IP40 PG16	3241040	572
WMS 2,4 (EX4)RL BK	0800427	193	WMS-2 HF 12,7 (60X20)RL	0803200	188	WP-BASE HF 13	3240966	577	WP-G BRASS IP40 PG21	3241041	572
WMS 2,4 (EX4)RL YE	0800328	193	WMS-2 HF 12,7 (60X20)RL YE	0803201	188	WP-BASE HF 14	3240967	577	WP-G BRASS IP40 PG29	3241042	572
WMS 25,4 (60X40)R	0800371	190	WMS-2 HF 19,1 (60X30)RL	0803202	188	WP-BASE HF 15,8	3240968	577	WP-G BRASS IP40 PG36	3241033	572
WMS 25,4 (60X40)R YE	0800405	190	WMS-2 HF 19,1 (60X30)RL YE	0803203	188	WP-BASE HF 17	3240969	577	WP-G BRASS IP40 PG7	3241037	572
WMS 25,4 (EX40)R	0800296	192	WMS-2 HF 2,4 (15X4)RL	0801000	188	WP-BASE HF 22	3240970	577	WP-G BRASS IP40 PG9	3241038	572
WMS 25,4 (EX40)R BK	0800424	193	WMS-2 HF 2,4 (15X4)RL YE	0801004	188	WP-BASE HF 29	3240971	577	WP-G BRASS IP65 M10	3241058	574
WMS 25,4 (EX40)R YE	0800308	193	WMS-2 HF 2,4 (30X4)RL	0801006	188	WP-BASE HF 37	3240972	577	WP-G BRASS IP65 M12	3241059	574
WMS 25,4 (EX40)RL	0800327	192	WMS-2 HF 2,4 (30X4)RL YE	0801007	188	WP-BASE HF 45	3240973	577	WP-G BRASS IP65 M16	3241060	574
WMS 25,4 (EX40)RL BK	0800435	193	WMS-2 HF 2,4 (60X4)RL	0801008	188	WP-BASE HF 9-10	3240965	577	WP-G BRASS IP65 M20	3241061	574
WMS 25,4 (EX40)RL YE	0800335	193	WMS-2 HF 2,4 (60X4)RL YE	0801009	188	WP-CN BRASS M10	3241145	579	WP-G BRASS IP65 M25	3241062	574
WMS 3,2 (15X5)R	0800380	189	WMS-2 HF 25,4 (60X40)RL	0803204	188	WP-CN BRASS M12	3241146	579	WP-G BRASS IP65 M32	3241063	574
WMS 3,2 (15X5)R YE	0800413	189	WMS-2 HF 25,4 (60X40)RL YE	0803205	188	WP-CN BRASS M16	3241147	579	WP-G BRASS IP65 M40	3241064	574
WMS 3,2 (15X5)RL	0800390	191	WMS-2 HF 3,2 (15X5)RL	0801001	188	WP-CN BRASS M20	3241148	579	WP-G BRASS IP65 PG11	3241053	574
WMS 3,2 (30X5)R	0800374	189	WMS-2 HF 3,2 (15X5)RL YE	0801010	188	WP-CN BRASS M25	3241149	579	WP-G BRASS IP65 PG16	3241054	574
WMS 3,2 (30X5)R YE	0800408	189	WMS-2 HF 3,2 (30X5)RL	0801011	188	WP-CN BRASS M32	3241150	579	WP-G BRASS IP65 PG21	3241055	574
WMS 3,2 (30X5)RL	0800387	191	WMS-2 HF 3,2 (30X5)RL YE	0801012	188	WP-CN BRASS M40	3241151	579	WP-G BRASS IP65 PG29	3241056	574
WMS 3,2 (60X5)R	0800364	189	WMS-2 HF 3,2 (60X5)RL	0801002	188	WP-CN BRASS PG11	3241154	579	WP-G BRASS IP65 PG36	3241057	574
WMS 3,2 (60X5)R YE	0800399	189	WMS-2 HF 3,2 (60X5)RL YE	0801013	188	WP-CN BRASS PG16	3241155	579	WP-G BRASS IP65 PG7	3241051	574
WMS 3,2 (60X5)RL	0800384	191	WMS-2 HF 38,1 (60X60)RL	0803206	188	WP-CN BRASS PG21	3241156	579	WP-G BRASS IP65 PG9	3241052	574
WMS 3,2 (60X5)RXL YE	0803102	191	WMS-2 HF 38,1 (60X60)RL YE	0803207	188	WP-CN BRASS PG29	3241157	579	WP-G HF IP66 M10 BK	3240895	561
WMS 3,2 (EX5)R	0800290	192	WMS-2 HF 4,8 (15X9)RL	0801014	188	WP-CN BRASS PG36	3241158	579	WP-G HF IP66 M12 BK	3240896	561
WMS 3,2 (EX5)R BK	0800416	193	WMS-2 HF 4,8 (15X9)RL YE	0801015	188	WP-CN BRASS PG7	3241152	579	WP-G HF IP66 M16 BK	3240897	561
WMS 3,2 (EX5)R YE	0800301	193	WMS-2 HF 4,8 (30X9)RL	0801016	188	WP-CN BRASS PG9	3241153	579	WP-G HF IP66 M20 BK	3240898	561
WMS 3,2 (EX5)RL	0800320	192	WMS-2 HF 4,8 (30X9)RL YE	0801017	188	WP-CN PA M12	3241132	578	WP-G HF IP66 M25 BK	3240899	561
WMS 3,2 (EX5)RL BK	0800428	193	WMS-2 HF 4,8 (60X9)RL	0801019	188	WP-CN PA M16	3241133	578	WP-G HF IP66 M32 BK	3240900	561
WMS 3,2 (EX5)RL YE	0800329	193	WMS-2 HF 4,8 (60X9)RL YE	0801020	188	WP-CN PA M20	3241134	578	WP-G HF IP66 M40 BK	3240901	561
WMS 38,1 (60X60)R	0800372	190	WMS-2 HF 6,4 (30X10)RL	0801022	188	WP-CN PA M25	3241135	578	WP-G HF IP66 PG11 BK	3240890	560
WMS 38,1 (60X60)R YE	0800406	190	WMS-2 HF 6,4 (30X10)RL YE	0801023	188	WP-CN PA M32	3241136	578	WP-G HF IP66 PG16 BK	3240891	560
WMS 38,1 (EX60)R	0800298	192	WMS-2 HF 6,4 (60X10)RL	0801024	188	WP-CN PA M40	3241137	578	WP-G HF IP66 PG21 BK	3240892	560
WMS 38,1 (EX60)R BK	0800425	193	WMS-2 HF 6,4 (60X10)RL YE	0801025	188	WP-CN PA PG11	3241140	579	WP-G HF IP66 PG29 BK	3240893	560
WMS 38,1 (EX60)R YE	0800309	193	WMS-2 HF 9,5 (15X16)RL	0801003	188	WP-CN PA PG16	3241141	579	WP-G HF IP66 PG36 BK	3240894	560
WMS 4,8 (15X9)R	0800382	189	WMS-2 HF 9,5 (30X16)RL	0801026	188	WP-CN PA PG21	3241142	579	WP-G HF IP66 PG7 BK	3240888	560
WMS 4,8 (15X9)R YE	0800414	189	WMS-2 HF 9,5 (30X16)RL YE	0801027	188	WP-CN PA PG29	3241143	579	WP-G HF IP66 PG9 BK	3240889	560
WMS 4,8 (15X9)RL	0800391	191	WMS-2 HF 9,5 (60X16)RL	0801028	188	WP-CN PA PG36	3241144	579	WP-G HF IP69K M10 BK	3240881	561
WMS 4,8 (15X9)RXL	0800397	191	WMS-2 HF 9,5 (60X16)RL YE	0801029	188	WP-CN PA PG7	3241138	579	WP-G HF IP69K M12 BK	3240882	561
WMS 4,8 (30X9)R	0800375	189	WMT 2,4 (15X4)R	0816281	196	WP-CN PA PG9	3241139	579	WP-G HF IP69K M16 BK	3240883	561
WMS 4,8 (30X9)R YE	0800409	189	WMT 3,5 (15X5)R	0817222	196	WP-EC TPE HF 10,0 BK	3240974	559	WP-G HF IP69K M20 BK	3240884	561
WMS 4,8 (30X9)RL	0800388	191	WMT 4,2 (15X6)R	0817235	196	WP-EC TPE HF 13,0 BK	3240975	559	WP-G HF IP69K M25 BK	3240885	561
WMS 4,8 (30X9)RXL	0800395	191	WMT 5,5 (15X8)R	0817248	196	WP-EC TPE HF 15,8 BK	3240976	559	WP-G HF IP69K M32 BK	3240886	561
WMS 4,8 (30X9)RXL YE	0803313	191	WMT 8,4 (17X10)R	0817251	196	WP-EC TPE HF 21,2 BK	3240977	559	WP-G HF IP69K M40 BK	3240887	561
WMS 4,8 (60X9)R	0800366	189	WMTB (24X8)R	0816278	197	WP-EC TPE HF 28,5 BK	3240978	559	WP-G HF IP69K PG11 BK	3240876	561
WMS 4,8 (60X9)R YE	0800400	189	WMTB (35X15)R	0817316	197	WP-EC TPE HF 34,5 BK	3240979	559	WP-G HF IP69K PG16 BK	3240877	561
WMS 4,8 (60X9)RL	0800385	191	WMTB HF (40X12)R	0803407	198	WP-EC TPE HF 42,5 BK	3240980	559	WP-G HF IP69K PG21 BK	3240878	561
WMS 4,8 (60X9)RXL	0800393	191	WMTB HF (40X12)R BU	0802991	198	WP-FS HF IP68 M10	3241173	581	WP-G HF IP69K PG29 BK	3240879	561
WMS 4,8 (60X9)RXL YE	0803103	191	WMTB HF (40X12)R RD	0803314	198	WP-FS HF IP68 M12	3241174	581	WP-G HF IP69K PG36 BK	3240880	561
WMS 4,8 (EX9)R	0800291	192	WMTB HF (40X12)R YE	0803408	198	WP-FS HF IP68 M16	3241175	581	WP-G HF IP69K PG7 BK	3240874	561
WMS 4,8 (EX9)R BK	0800418	193	WMTB HF (55X15)R	0803409	198	WP-FS HF IP68 M20	3241176	581	WP-G HF IP69K PG9 BK	3240875	561
WMS 4,8 (EX9)R YE	0800302	193	WMTB HF (55X15)R BU	0802992	198	WP-FS HF IP68 M25	3241177	581	WP-G PP HF M10	3240995	569
WMS 4,8 (EX9)RL	0800321	192	WMTB HF (55X15)R RD	0803315	198	WP-FS HF IP68 M32	3241178	581	WP-G PP HF M12	3240996	569
WMS 4,8 (EX9)RL BK	0800429	193	WMTB HF (55X15)R YE	0803410	198	WP-FS HF IP68 M40	3241179	581	WP-G PP HF M16	3240997	569
WMS 4,8 (EX9)RL YE	0800330	193	WMTB HF (55X25)R	0803411	198	WP-FS HF IP68 PG11	3241182	581	WP-G PP HF M20	3240998	569
WMS 50,8 (EX80)R	0800299	192	WMTB HF (55X25)R BU	0802993	198	WP-FS HF IP68 PG16	3241183	581	WP-G PP HF M25	3240999	569
WMS 50,8 (EX80)R BK	0800426	193	WMTB HF (55X25)R RD	0803316	198	WP-FS HF IP68 PG21	3241184	581	WP-G PP HF M32	3241000	569
WMS 50,8 (EX80)R YE	0800311	193	WMTB HF (55X25)R YE	0803412	198	WP-FS HF IP68 PG29	3241185	581	WP-G PP HF M40	3241001	569
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WMS 6,4 (15X10)RL	0801594	191	WMTB-AL (40X15)	08030524	160	WP-FS HF IP68 PG7	3241180	581	WP-G PP HF PG16	3240991	568
WMS 6,4 (15X10)RXL	0801595	191	WMTB-AL (60X15)	08030525	160	WP-FS HF IP68 PG9	3241181	581	WP-G PP HF PG21	3240992	568
WMS 6,4 (30X10)R	0800376	189	WMTB-AL (D30)	08030804	161	WP-FS IP68 M10	3241159	580	WP-G PP HF PG29	3240993	568
WMS 6,4 (30X10)R YE	0800410	189	WMTW (10X4)R	0803100	195	WP-FS IP68 M12	3241160	580	WP-G PP HF PG36	3240994	568
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