

Marking Systems Tools Mounting Material

2011

CLIPLINE 2

PDF Version, February 2012



CLIPLINE 2



Marking systems, tools, and mounting material | CLIPLINE 2

The CLIPLINE 2 catalog provides everything you'll need for the optimum marking, wiring, and mounting of your application. The catalog is therefore the ideal supplement for all other product ranges.

PHOENIX CONTACT
INSPIRING INNOVATIONS

CLIPLINE 1



CLIPLINE 1

The CLIPLINE 1 catalog offers industrial connection technology products for optimum control cabinet wiring. Here you will find everything, from the CLIPLINE complete unique modular terminal block system through special terminal blocks to PC-supported terminal strip configuration.

PLUSCON



PLUSCON

The PLUSCON catalog documents industrial connectors for data, signal, and power cables, as well as for fiber optics. The complete range for sensor/actuator cabling makes this catalog a standard for field wiring.

COMBICON



COMBICON

The COMBICON catalog offers the entire device connection technology range in protection classes up to IP67. Electronic housings, plug-in card blocks, and DIN socket strips make this catalog a standard for every developer.

TRABTECH



TRABTECH

The products and solutions for "Power and Signal Quality" in the TRABTECH catalog greatly contribute to ensuring interference-free work processes in all sectors. This offers you: simply more availability.

INTERFACE



INTERFACE

Covering all aspects of industrial control, the INTERFACE catalog provides all the components required for the signal conditioning of digital, analog, serial, and power signals, such as signal converters, switching devices, and power supply units.

AUTOMATION



AUTOMATION

From the simplest IT-powered control system through to the fastest I/O module in the world, the AUTOMATION catalog offers the latest automation components and systems from Phoenix Contact.

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MARKING system – Printers



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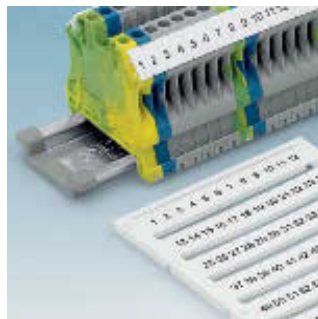


Thermal transfer printer for material off the roll
THERMOMARK ROLL Page 33

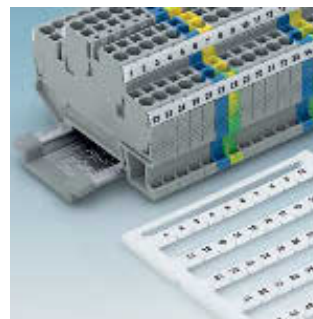
MARKING system – Terminal marking



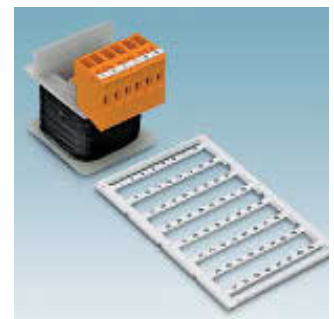
Plotter with engraving unit
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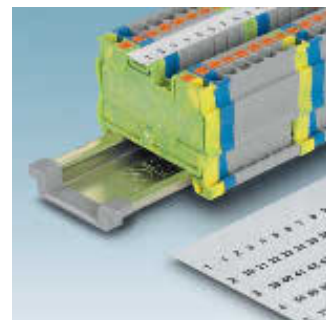
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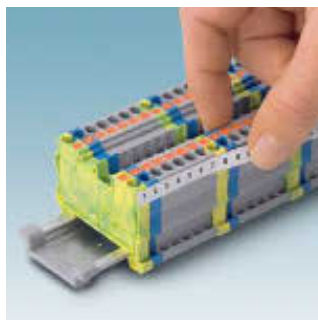
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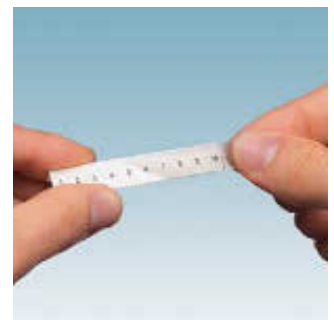
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UniSheet terminal marking for high and flat marker groove, for printing with THERMOMARK CARD
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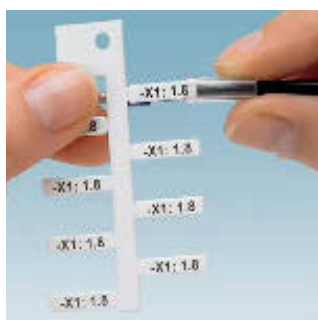
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THERMOMARK X1.2

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(double-sided printing possible)

THERMOMARK W2

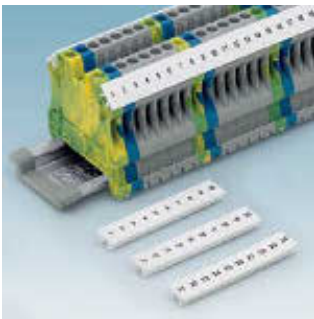
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Plotters

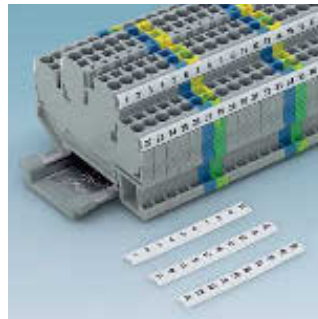
CMS-P1-PLOTTER

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Zack marker strip terminal marking for high marker groove, for printing with plotter **ZB...**

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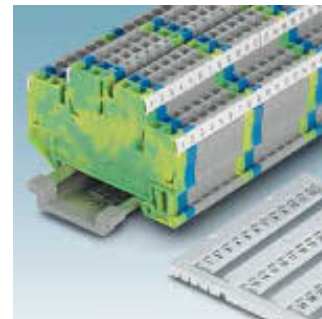
Zack marker strip terminal marking for flat marker groove, for printing with plotter **ZBF...**

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UniCard terminal marking for high marker groove, for printing with **THERMOMARK CARD** **UCT-TM...**

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UniCard terminal marking for flat marker groove, for printing with **THERMOMARK CARD** **UCT-TMF...**

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MARKING system – Conductor and cable marking



Self-adhesive marker strips for terminal blocks from other manufacturers, for printing with **BLUEMARK** and **THERMOMARK CARD** **SK...**

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UniCard slide-on conductor marking, for printing with **BLUEMARK**

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UniSheet conductor marking for marking collar, for printing with **THERMOMARK CARD** **US-WMT...**

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UniSheet cable marking for assembly with cable binders, for printing with **THERMOMARK CARD** **US-WMTB...**

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Self-adhesive conductor marking with transparent protective foil, for printing with **THERMOMARK ROLL** **WML...**

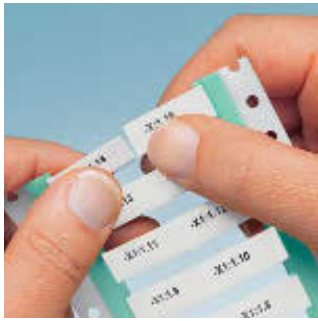
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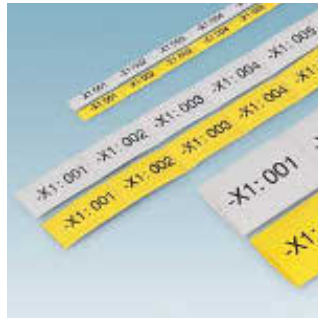
Self-adhesive conductor marking with protective foil, for printing with **THERMOMARK CARD** **KML...**
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CLIPLINE Part 2 | Product range overview



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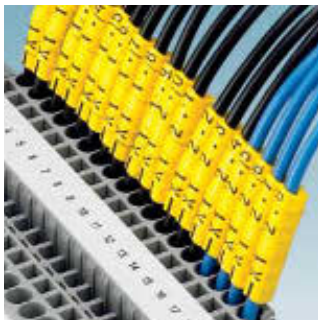


Insert conductor marking for marking collars, for printing with THERMOMARK ROLL
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MARKING system



Conductor marking with individual marking collars
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Marker carrier for buttons and control devices
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Stick-on and screw-on device marking
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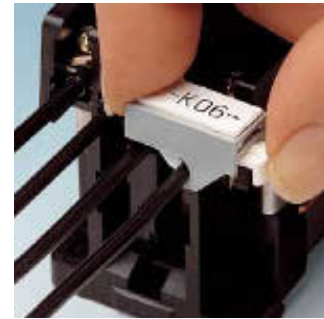
Cable marking for assembly with cable binders, for printing with THERMOMARK ROLL WMTB... Page 175



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UniCard device marking that can be snapped to marker carriers, for printing with BLUEMARK UC-EMP... Page 199



UniCard snap-in device marking, for printing with BLUEMARK UC-EM... Page 202



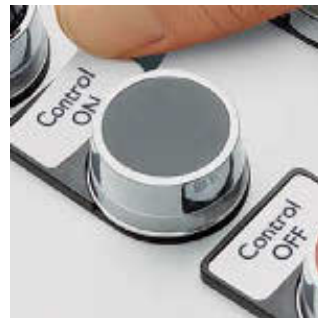
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UNIFOX VDE combination pliers UNIFOX-CE VDE... Page 252

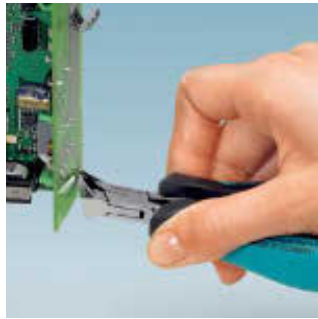


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MICROFOX pliers for all applications in electronics
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CRIMPFOX crimping pliers for ferrules
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TESTFOX voltage and continuity tester
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TESTFOX digital current probe multimeter
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Screwdriver sets
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CABINET add-on



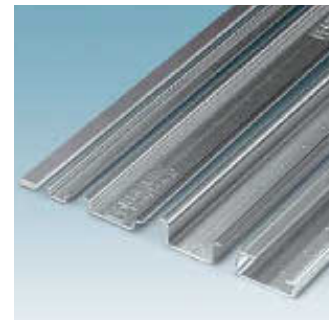
Portable crimping machine for ferrules, cable lugs, and connectors
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Stripping and crimping machine for bulk goods
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Portable stripping and crimping machine for taped products
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TOOL fox – Automatic devices



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Automatic cutting device for conductors and cables
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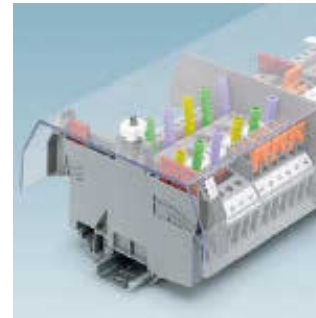
Snap-on end brackets without screws
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Mounting on DIN rails
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Cable ducts and accessories
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DIN rail with cable clamps
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Plastic cable markers for insert labels
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Marking systems, tools, and mounting material

Optimize all of the processes involved in the setup, installation, and maintenance of your control cabinets and switchgear. We can help you to achieve this with perfectly matched products from our marking, tool, and mounting material ranges. In this catalog you will find everything you need for marking, securing, and mounting your control cabinet components.





MARKING system

MARKING system provides the perfect solutions for terminal, conductor, cable, and device marking. It places at your disposal the CLIP PROJECT marking software, various printing systems, and a wide variety of marking materials.

TOOL fox

TOOL fox is the complete range of professional processing and measuring tools. Designed for use in all processes encountered whilst working in electrical engineering, the tools and automatic devices impress with their optimum handling and quality.

CABINET add-on

CABINET add-on stands for modern control cabinet technology. DIN rails and end brackets ensure the secure attachment of electrical connecting elements and components, while shield connection clamps guarantee EMC-compliant system wiring and cable ducts bring order to the control cabinet.

Service

Choose the complete range. Working to your specifications, we will manufacture and label terminal strips and complete terminal boxes or modules for direct installation in your application.

MARKING system

MARKING system is the intelligent solution for quick and easy labeling of terminals, conductors, cables, and devices. The labeling data is transferred from the CLIP PROJECT planning and marking software to the printers with just the click of a mouse. Whether your printing system involves a BLUEMARK LED high-speed printer, a thermal transfer printer, or a plotter, a wide range of marking material is available.



Terminal marking

Terminal markers are available with or without labeling, in UniCard and UniSheet format and in the form of rolls or normal sheets. Our labeling service also enables terminal markers to be labeled according to customer specifications.



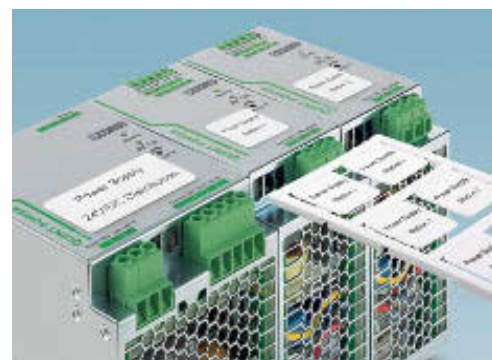
Conductor and cable marking

Conductors and cables can be labeled in numerous different ways. The markers can either be slid on, clipped or glued into place, or attached with cable binders. They are available unprinted or can be ordered from our labeling service printed to meet customer specifications.



Device marking

Various device markers are available for the optimum and individual labeling of control cabinets, switchgear, and their components. Our labeling service also enables markers to be labeled according to customer specifications.



TOOL fox

TOOL fox comprises the full range of professional 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 guarantee maximum service life. Automatic cutting devices, stripping machines, and crimping machines can be used to automate work steps.



Cutting tools

The use of professional cutting tools should result in a precise intersection without deforming the conductor. Our precision cutting tools meet this requirement and are suitable for cables up to 100 mm in diameter.



Stripping tools

Correct stripping and dismantling can only be achieved with professional stripping tools. Special geometries and hardened blades ensure accurate results every time. Automatic conductor cross section setting provides reliable protection against damage to the conductors.



Crimping tools

Once they have been stripped, cable ends can be equipped with various ferrules and a range of connectors. Professional crimping pliers are available for this purpose. These guarantee long-term, stable, and gas-tight high-quality crimping for all conductors and cables up to 120 mm².



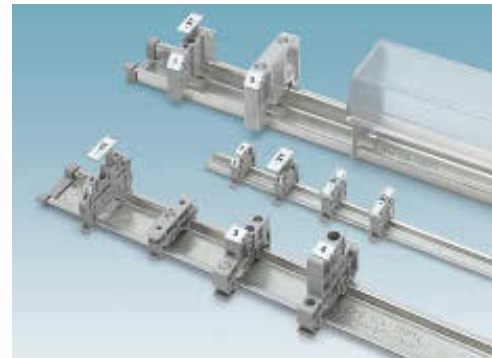
CABINET add-on

CABINET add-on stands for modern control cabinet technology which ensures that control cabinets and switchgear can be set up quickly and take up as little space as possible. DIN rails and end brackets ensure the secure attachment of electrical connecting elements and components. Shield connection clamps guarantee EMC-compliant system wiring and cable ducts bring order to the control cabinet.



Component mounting

You can save time when securing connections and components in switchgear and control gear by using suitable mounting devices. The space in the control cabinet can also be used to optimum effect by combining the mounting accessories.



Shielding

A wide selection of shield connection clamps, neutral busbars, and supports guarantees that the wiring of the control cabinet or the switch system complies with EMC regulations and also ensures optimum wiring convenience.



Cable bundling and cable routing

Cable ducts can be used to bring order to your control cabinet. Clamping collars affix the cables coming in from the field. The conductors are bundled together quickly and easily using plastic cable markers and routed into the cable ducts.



Our services

At Phoenix Contact, trendsetting products are complemented by a comprehensive service offer. Wherever you are in the world, our global network means that you can rely on our service. Being at home all over the world and speaking the language of the user is what we understand by customer proximity. We live up to this with more than 40 Phoenix Contact subsidiaries and in excess of 30 representatives in other countries.



Terminal strip production

Pre-assembled terminal strips enable you to both streamline your process sequences and save installation time. We supply your terminals strips fully labeled.



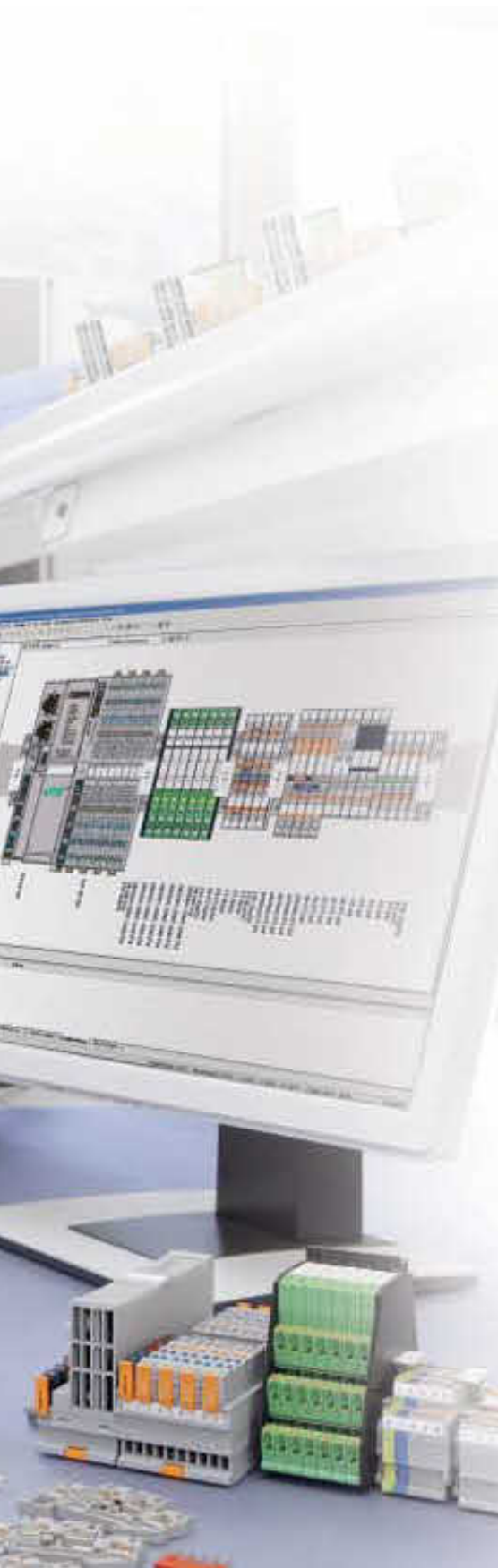
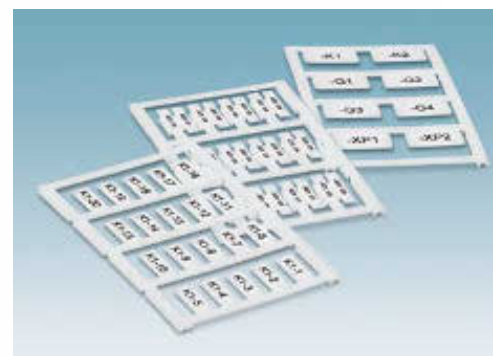
Mounting service

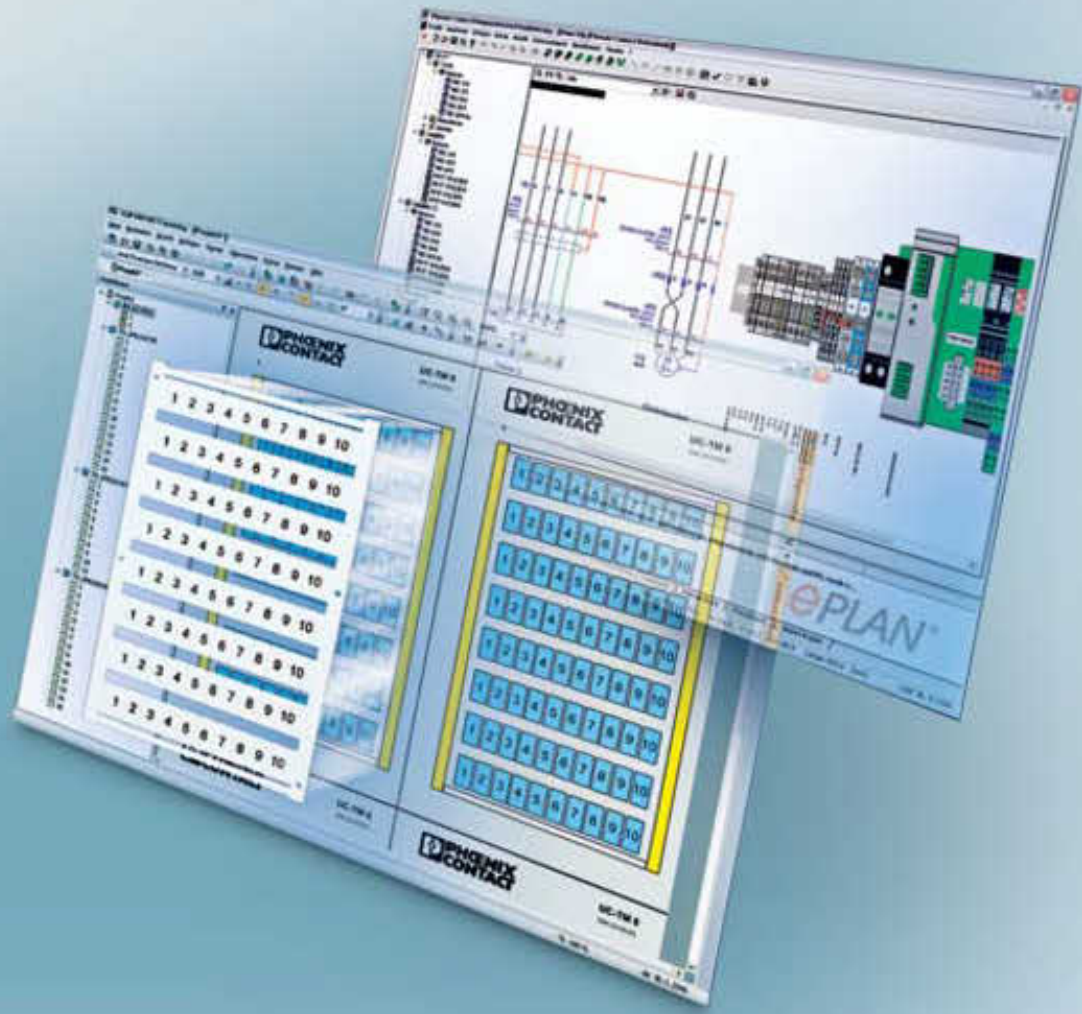
We can produce fully equipped control boxes and terminal boxes to your specifications. Our service even includes putting together custom product sets.



Labeling service

With CLIP PROJECT, the planning and marking software, you can create labels to suit your wishes. Just use the built-in e-mail function to send the data to us, and we will deliver ready printed marking materials directly to your production facility. Quick and simple – all you have to do is mount the materials.





MARKING system – CLIP PROJECT planning and marking software

Planning and marking software

The CLIP PROJECT 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, and devices.

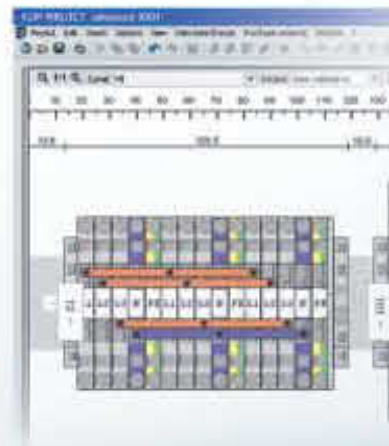
Thanks to the optimum interaction between the two modules, even in connection with electrical planning systems, the result is an end-to-end process chain: from planning and documentation, right up to the finished terminal strip or the finished marking.

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

Product range overview	
CLIP PROJECT planning and marking software	20
CLIP PROJECT advanced	24
CLIP PROJECT professional	25

CLIP PROJECT

CLIP PROJECT combines the proven planning software for terminal strip configuration with a powerful marking tool. Direct data exchange with all conventional CAE programs, along with the creation of the complete project documentation, are what make this configuration software unique. CLIP PROJECT provides the perfect output devices and marking materials for terminal, conductor, and device marking. Quite simply, it is a single piece of software that is compatible with all printing systems and can be used to label any type of application.



Configuration ...

Production ...



Printing systems
From high-speed printers
to universal lists.





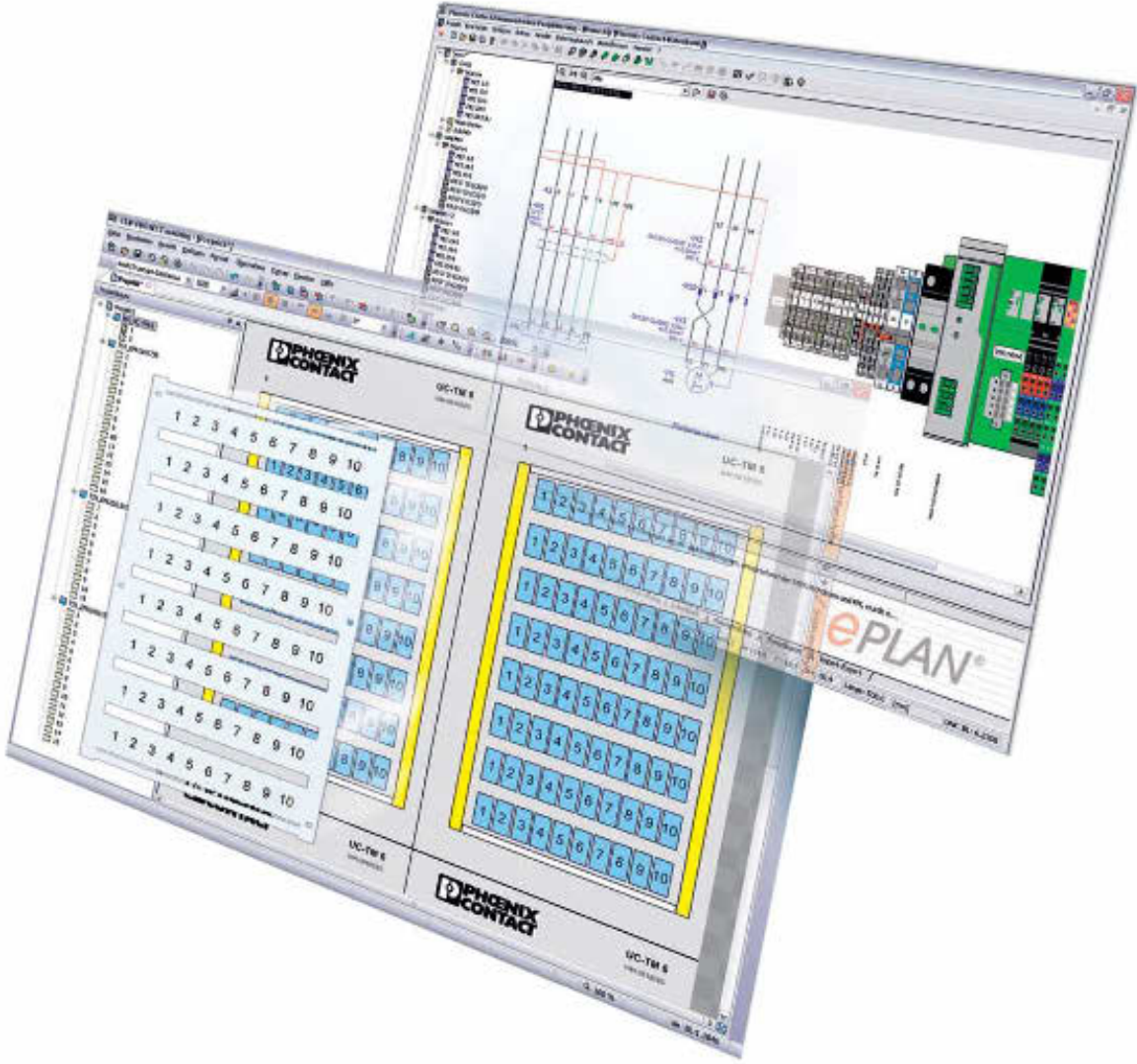
Complete documentation
CLIP PROJECT creates complete order, parts, structure, and mounting lists just at the click of a mouse.

... Mounting

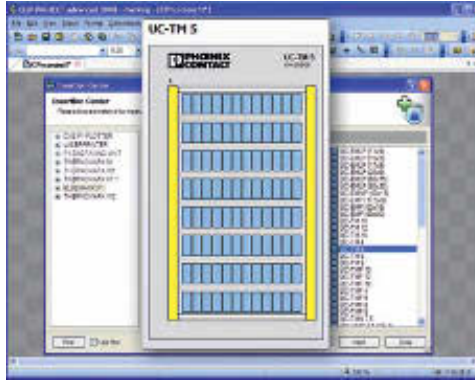
We make everything to suit your requirements

With CLIP PROJECT, you can create markers or complete terminal strips in accordance with your specifications. Just send the data to us using the built-in e-mail function.

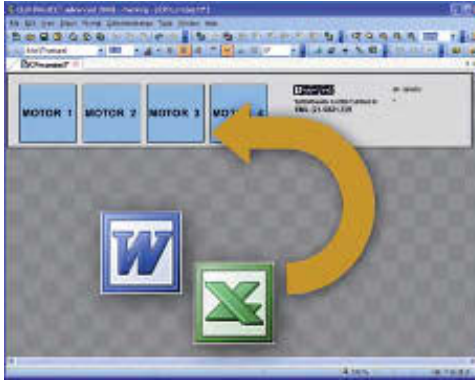
We can provide markings that are printed precisely to meet the requirements of your application or even completely labeled terminal strips. Incorporation into your production line is quick and easy - all you need to take care of is installation.



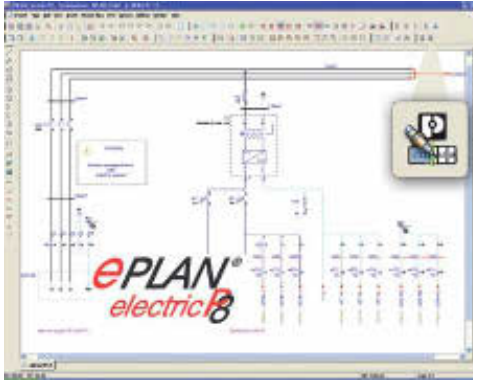
Marking module



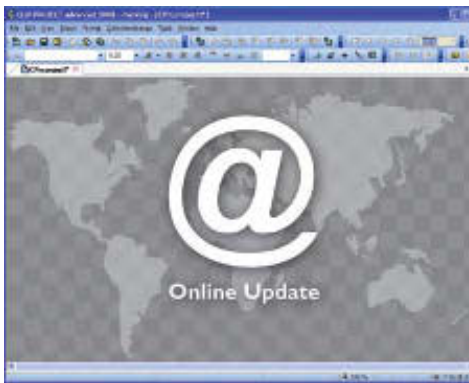
During selection, the marking materials are displayed as a preview for rapid product selection.



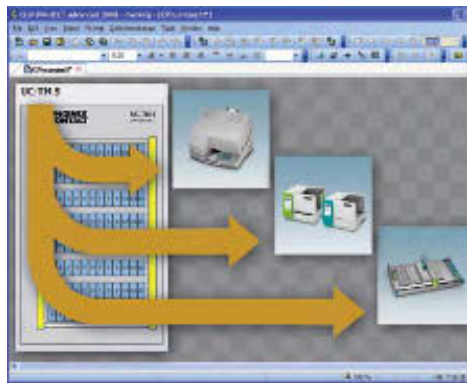
Interfaces to all CAE systems and spreadsheet and text processing programs are provided for the open exchange of data.



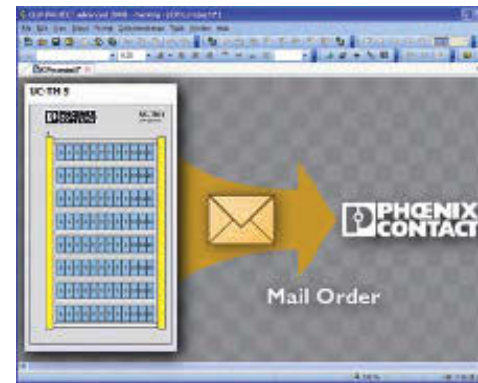
By integrating CLIP PROJECT in EPLAN P8, the labeling data for terminal, conductor and device markings can be automatically taken from the circuit diagram.



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

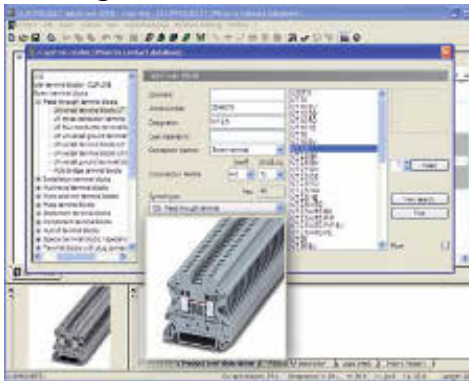


All Phoenix Contact output devices and standard office printers can be easily controlled with just one piece of software.

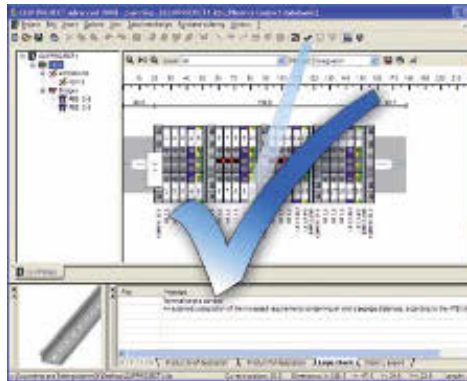


Phoenix Contact provides a labeling service. Orders can be placed by e-mail and all items printed and supplied to suit the customer.

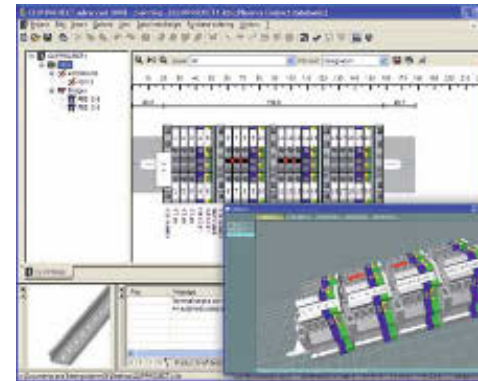
Planning module



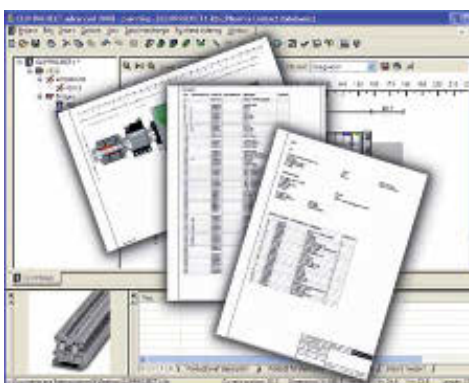
During selection, all Phoenix Contact products which can be fitted on DIN rails are displayed as a preview for rapid product selection.



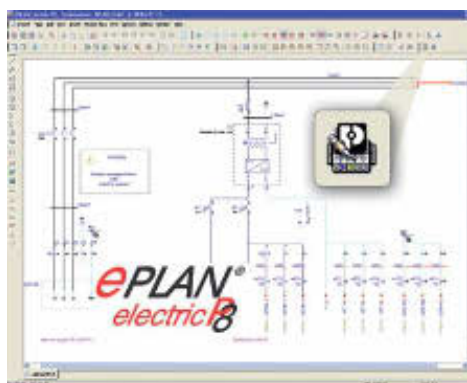
The auto correction function checks the configured terminal strip and automatically inserts any missing accessories.



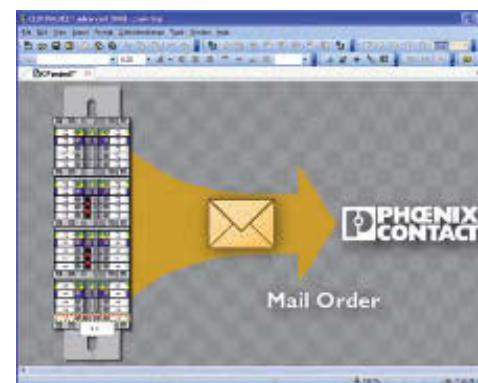
The fully configured terminal strips are available as 2D and 3D design data at the click of a button for further processing in the mechanical design.



Complete documentation is available for rapidly and correctly producing the mechanical structure of the terminal strips.



By integrating CLIP PROJECT in 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.



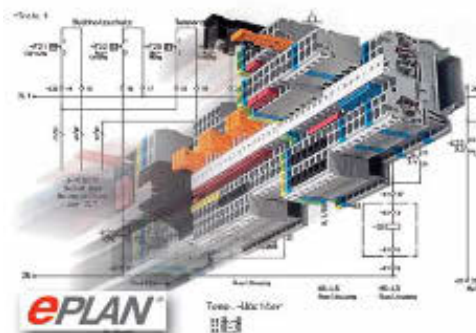
Phoenix Contact provides a terminal strip service. The terminal strips configured to suit your requirements can be ordered using the e-mail function. Phoenix Contact will supply the terminal strips promptly.

MARKING system

CLIP PROJECT planning and marking software

CLIP PROJECT advanced

- The CLIP PROJECT advanced program enables rapid planning and marking of terminal strips for the switch cabinet and field
- Planning of terminal strips with components from CLIPLINE, INTERFACE, TRABTECH, and AUTOMATION product ranges
- CLIP PROJECT advanced works in both directions, taking data from electrical planning systems and automatically placing the correct products in graphics and parts lists
- The auto correction function automatically sets the necessary end brackets, covers, etc. and thereby ensures high-quality documentation
- On request, all the documentation for the equipped DIN rail is output
- Selection and labeling of all markers for terminal, conductor and equipment identification
- Support for output devices from Phoenix Contact
- Automatic Internet update
- Windows user interface



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 and Chinese

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

Ordering data

Type	Order No.	Pcs. / Pkt.
CLIP-PROJECT ADVANCED	5146040	1



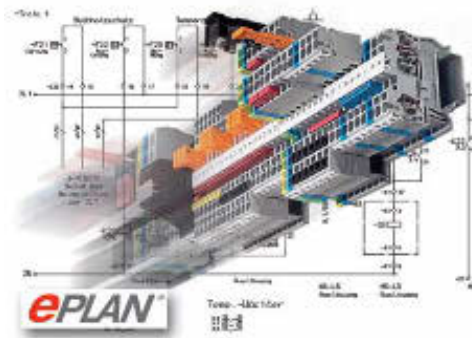
CLIP PROJECT professional

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 labels of your choice and to adapt existing material descriptions
- Graphics, various barcode types and geometric figures 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

In the professional version, the project structure tree is taken from the CAE system in CLIP PROJECT. This provides the following benefits:

- Labeling is clearly assigned in the project structure
- Labeling is produced in the sub-projects



General data
Software interface

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
SDProjet SPAC

System requirements
Operating systems

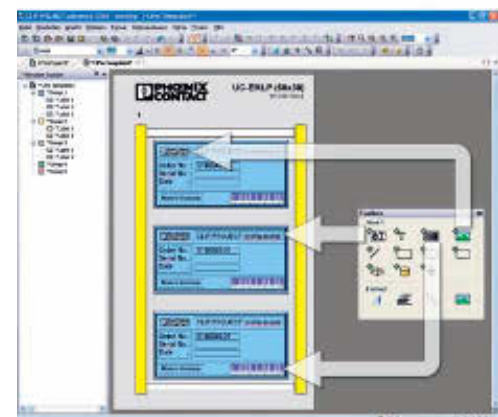
MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)

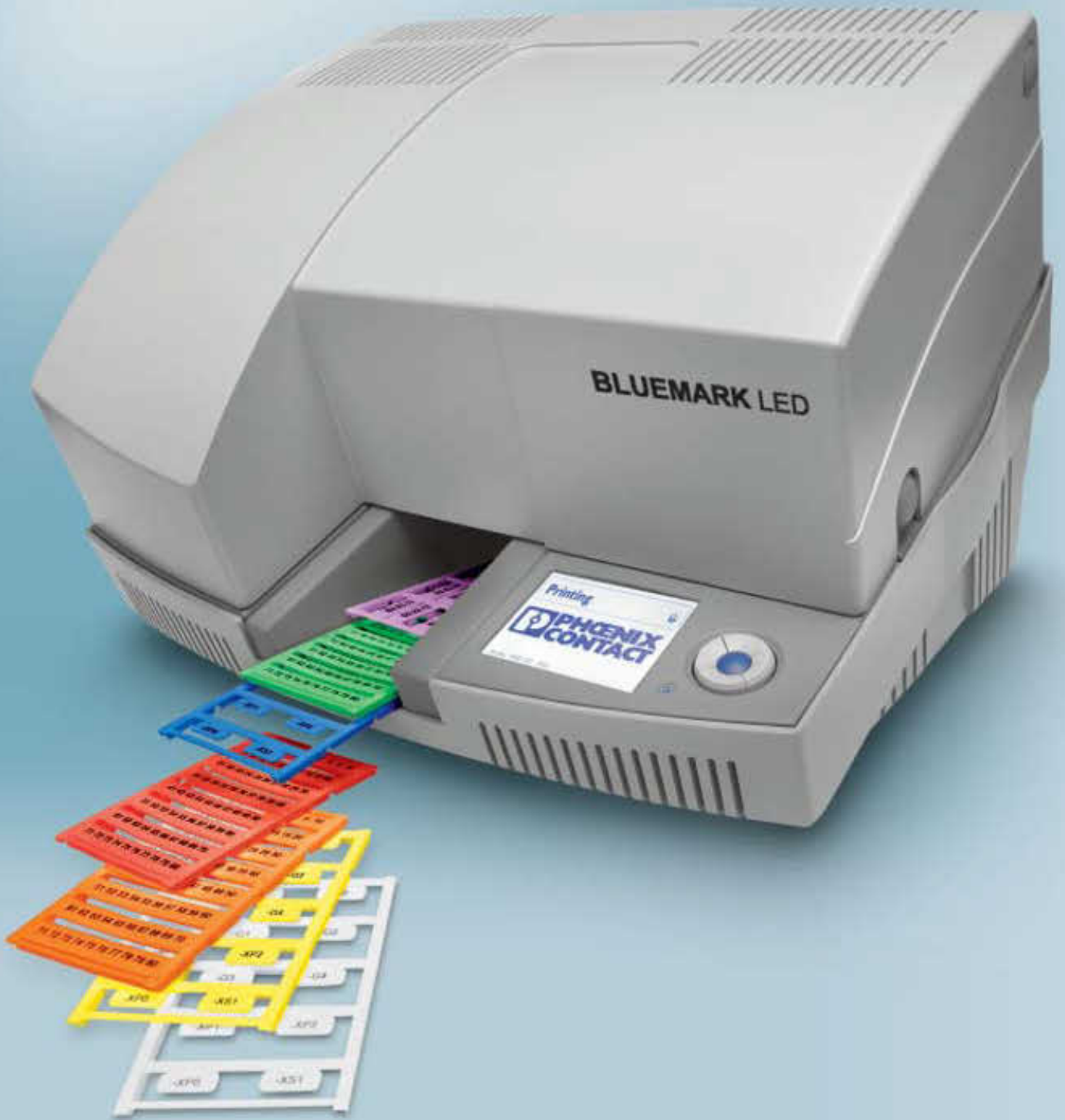
Description

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

Ordering data

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





BLUEMARK LED

Printing
PHOENIX CONTACT

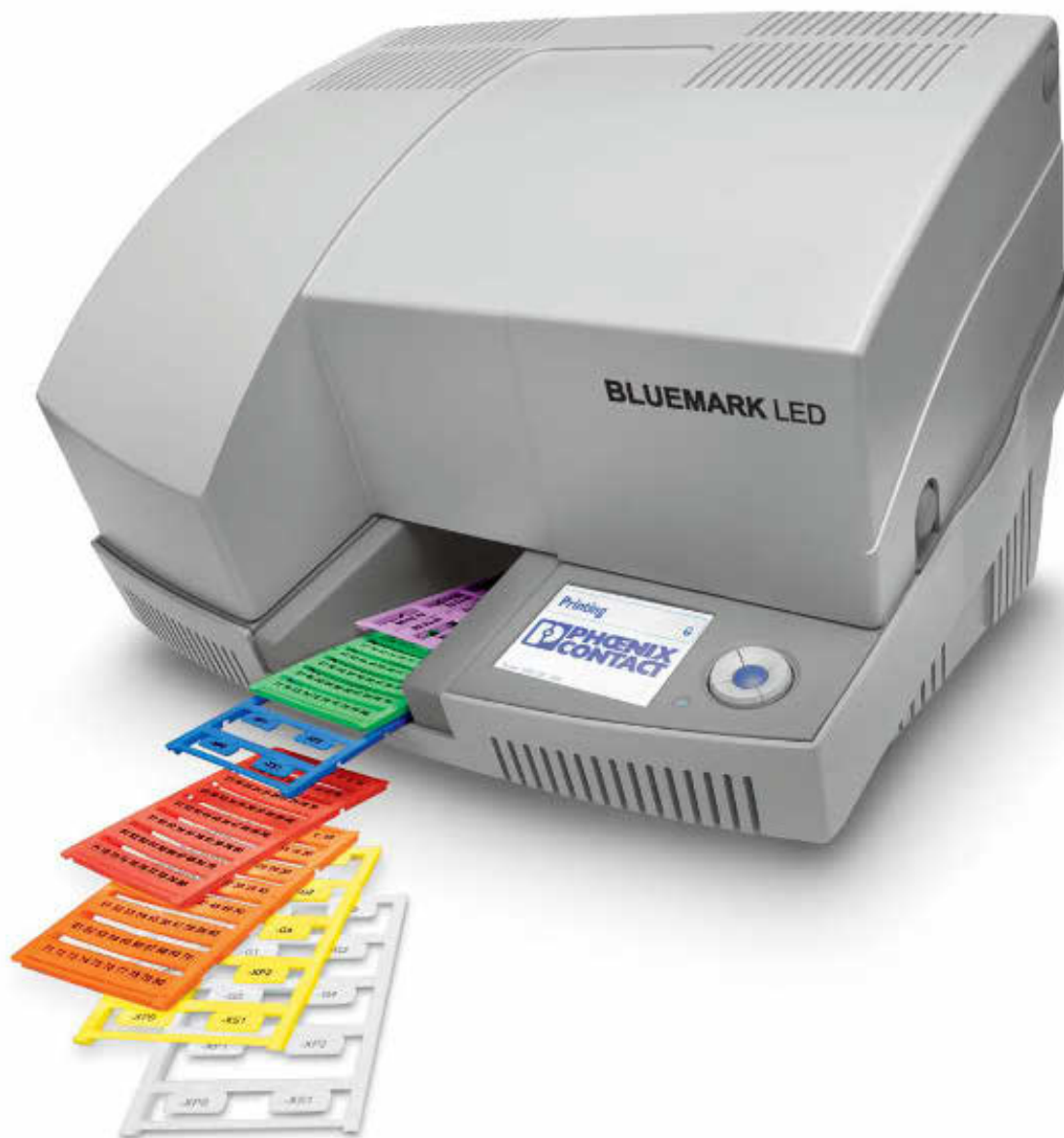
MARKING system – Printers

The right printer for every application. We can provide all manner of different types of printing system for your terminal, conductor, cable, and device marking requirements. The BLUEMARK LED high-speed printer with innovative UV technology prints materials in UniCard format quickly and easily.

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

Product range overview

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Marker pen for plotter and manual labeling	43
Complete list of materials/printers	44



Phoenix Contact is a competent 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 labeling 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 labeling 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:

- BLUEMARK LED, high-speed printer with UV technology for labeling UniCard formats
- THERMOMARK CARD, thermal transfer printer for labeling UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for labeling material off the roll and continuous media
- THERMOMARK X1.2, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided labeling 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 terminals, 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 BLUEMARK LED uses the latest UV technology for labeling. This makes the markers instantly wipe-resistant and ready for immediate use. The fast printing technology enables 10,000 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 offers 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.



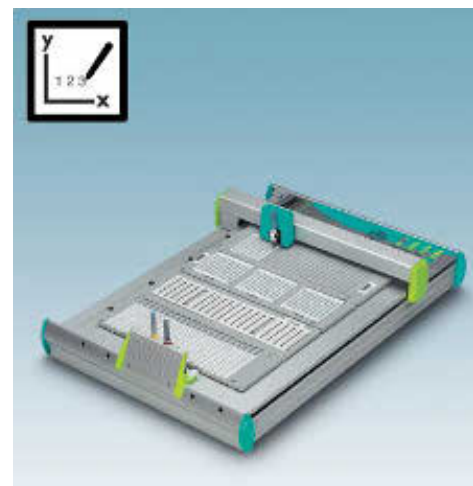
The new THERMOMARK ROLL thermal transfer printer has been designed for printing material off the roll and continuous media. It provides a really easy way to produce high-quality printed labels, markers, and shrink sleeves. This compact printer is also suitable for use as a portable solution.



The THERMOMARK X1.2 is characterized by its high print speed and resolution. It can be used to print onto all materials available on rolls, as well as to cut and perforate continuous media. The THERMOMARK X1.2 is particularly suitable for labeling large quantities and is an important addition to the range as a top-of-the-line thermal transfer printer.



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of continuous WMS shrink sleeves. Double-sided labeling 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.

BLUEMARK LED, UV printer for UniCard materials



BLUEMARK

- Rapid printing of plastic labels for terminal, conductor, cable, and device marking applications
- User-friendly high-speed printer with modern UV technology
- Solvent-free printing of up to 10,000 markers per hour
- Instant wipe resistance, making the labels ready for immediate use
- Can be networked via Ethernet
- Wireless Bluetooth control

- Automatic material feed
- Easy and time-saving operation
- The printer detects the direction of the inserted sheets and automatically rotates printing by 180° if required

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

Description	Color
BLUEMARK LED , printer with solvent-free UV technology, including Euro mains cable, US mains cable, USB cable, printer driver, multilingual manual, CLIP PROJECT advanced planning and marking software	gray

Fluid cartridge, replacement, 30 ml printing fluid, black

Card chute, prevents cards accumulating in the outlet

Transport case, with aluminum edges, for printer and accessories



Technical data

Width	Length	Height
465	510	330

5 ... 35
 BLUEMARK
 30 ml
 Approx. 10,000 markers/h (UC-TMF 4 with 2 characters/marker)
 10/100 Mbps Ethernet / USB 2.0 / Bluetooth Version 2.0
 100 ... 240 / 50 Hz ... 60 Hz
 20
 MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)
 70

Ordering data

Type	Order No.	Pcs. / Pkt.
BLUEMARK LED	5147888	1

Accessories

BLUEMARK FLUID-CARTRIDGE	5147421	1
BLUEMARK CARD SLIDER	5147010	1
BLUEMARK CASE	5147447	1

THERMOMARK CARD, thermal transfer printer for sheet materials and cards

N



Thermal transfer for cards



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

Dimensions	
	[mm]
General data	
Print resolution	[dpi]
Max. printing width	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
253	320	189
300 dpi	104	100 ... 240 / 50 Hz ... 60 Hz
6	MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)	

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

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

Magazine , for THERMOMARK CARD, for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ...	
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 all US-... materials	
Transport case	
Ink ribbon , length: 300 m, width: 110 mm	black

Accessories		
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-US-MAG1	5146451	1
TL CASE	0800613	1
THERMOMARK-RIBBON 110-TC	0801371	1

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 labeling
- Easy operating concept based on straightforward touch screen entry
- USB and Ethernet connections
- Easy to control with the CLIP PROJECT software

Dimensions	
	[mm]
General data	
Print resolution	[dpi]
Max. printing width	[mm]
Max. printing length	[mm]
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
253	320	189
300 dpi	104	1000
100 ... 240 / 50 Hz ... 60 Hz	3.8	MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)

Description	Color
Thermal transfer printer for material off the roll , incl. European mains cable, US mains 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 m sample roll)	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL	5146477	1

Cutter, can be retrofitted, for precise cutting of continuous media into required lengths

Cutter, can be retrofitted, for perforating continuous media

Transport case

External media hub, for roll diameters of 150 mm to 305 mm

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

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

- black
- blue
- green
- red

Ink ribbon, specifically for high-temperature labels, EMLHT...

black

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-CUTTER	5146422	1
THERMOMARK ROLL-CUTTER/P	5146435	1
TL CASE	0800613	1
THERMOMARK ROLL-ERH	5146448	1
THERMOMARK-ERH 500	5146309	1
THERMOMARK-RIBBON 110	5145384	1
THERMOMARK-RIBBON 110 BU	0829544	1
THERMOMARK-RIBBON 110 GN	0829542	1
THERMOMARK-RIBBON 110 RD	0829543	1
THERMOMARK-RIBBON 110-EMLHT	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

Thermal transfer printer sets

Notes:

For printer accessories, see under "Printers"

N



Printing set, complete

- MARKING BOX is the complete labeling system for all terminal, conductor, cable, and device marking applications
- Includes the THERMOMARK CARD printer for all materials in UniCard (UCT) and UniSheet (US) format
- 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 start-up without any need for installation and setup work. Plug and print. Simply connect the devices via USB and you're ready to print.
- Country-specific keyboard version upon request

Description

Set, comprising: 1 x THERMOMARK CARD, Order No. 5146464, 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

With German keyboard
With English keyboard

Printing set, comprising: 1 x THERMOMARK CARD, Order No. 5146464, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

With German keyboard
With English keyboard

Printing set, comprising: 1 x THERMOMARK ROLL, Order No. 5146477, 1 x MARKING NOTEBOOK, CLIP-PROJECT PROFESSIONAL

With German keyboard
With English keyboard

Ordering data

Type	Order No.	Pcs. / Pkt.
MARKING BOX	5147100	1
MARKING BOX EN	5147101	1

N

N



Printing set for cards



Printing set for material off the roll

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK CARD SET	5147200	1
THERMOMARK CARD SET EN	5147201	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
THERMOMARK ROLL SET	5147300	1
THERMOMARK ROLL SET EN	5147301	1

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 labeling 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 labeling that is resistant to mechanical and chemical effects
- Continuous media can be cut and perforated with a high degree of positioning accuracy

Dimensions		[mm]
General data		
Print resolution	[dpi]	300 dpi
Max. printing width	[mm]	105
Max. printing length	[mm]	2000
Interfaces		Serial (V.24 (RS-232)) / USB 2.0 / 10/100 Mbps Ethernet
Power supply	[V]	100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg]	10
Operating systems		MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)

Technical data		
Width	Length	Height
242	446	274

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 comprising: - Planning and marking software - THERMOMARK X1.2 thermal transfer printer - Ink ribbon - Label rolls

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-EMLHT	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
THERMOMARK-RIBBON 55-WMSHF	0827856	1

Cutter , for THERMOMARK X1...	
Perforator	
Transport case , with aluminum edges, for printer and accessories	
External media hub , for roll diameters of 150 mm to 305 mm	
External media hub , for roll diameters of up to 500 mm	
Ink ribbon , length: 300 m, width: 110 mm	black
Ink ribbon , specifically for high-temperature labels, EMLHT...	black
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
Ink ribbon, halogen-free , specifically for labeling shrink sleeves using THERMOMARK W1 and THERMOMARK W2 Length: 300 m, width: 64 mm	black



THERMOMARK W2, thermal transfer printer for continuous shrink sleeves



Thermal transfer for rolls



The THERMOMARK W2 has been specially developed for the double-sided printing and perforation of WMS continuous 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 labeling 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	
Print resolution	[dpi]
Max. printing width	[mm]
Max. printing length	[mm]
Interfaces	
Power supply	[V]
Weight	[kg]
Operating systems	

Technical data		
Width	Length	Height
248	554	405
300 dpi	105.6	1000
Serial (V.24 (RS-232)) / USB 2.0 / 10/100 Mbps Ethernet		
100 ... 240 / 50 Hz ... 60 Hz		
21		
MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)		

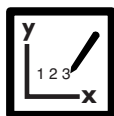
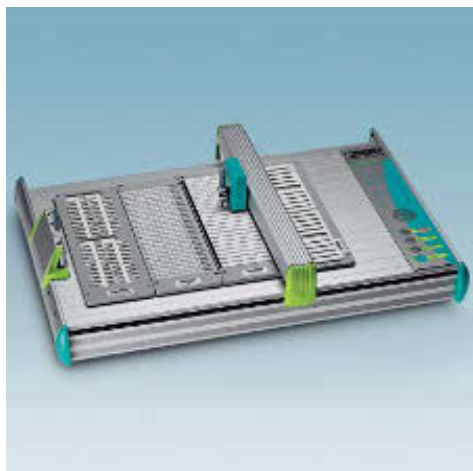
Description	Color
Thermal transfer printer , specifically for shrink sleeve labeling on both sides, including perforation cutter, connecting cable, Windows® printer driver, operating instructions, CLIP PROJECT advanced planning and marking software	gray

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

Transport case , with aluminum edges, for printer and accessories		
External media hub , for roll diameters of 150 mm to 305 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	
Ink ribbon, halogen-free , specifically for labeling shrink sleeves using THERMOMARK W1 and THERMOMARK W2 Length: 300 m, width: 64 mm	black	

Accessories		
Type	Order No.	Pcs. / Pkt.
THERMOMARK W2-CASE	5146338	1
THERMOMARK ROLL-ERH	5146448	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
THERMOMARK-RIBBON 55-WMSHF	0827856	1

CMS-P1-PLOTTER



Plotter



- During long intervals, 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]	440 x 296 mm
Max. material height	[mm]	10.5
Max. plotting speed	[m/s]	0.4
Interfaces		
Input voltage / frequency	[V]	100 ... 240 / 50 Hz ... 60 Hz
Weight	[kg]	8
Operating systems		
MS Windows XP, MS Windows Vista, MS Windows 7 (32/64-bit)		

Technical data		
Width	Length	Height
440	660	125

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

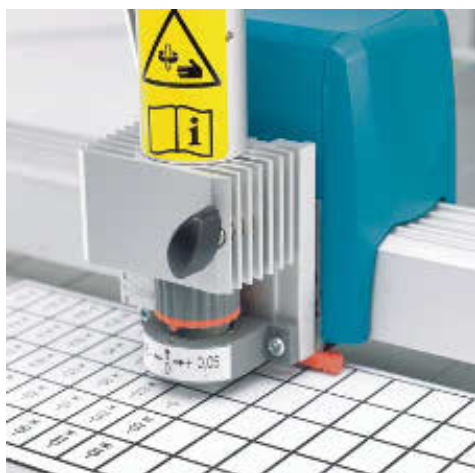
Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-P1-PLOTTER	5144615	1

Starter set , comprising: - 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

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



Engraving unit for CMS-P1-PLOTTER



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 produce 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 226
- 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	
110 ... 240 / 50 Hz ... 60 Hz		
8		
5000 ... 50000		
3		
150		

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	

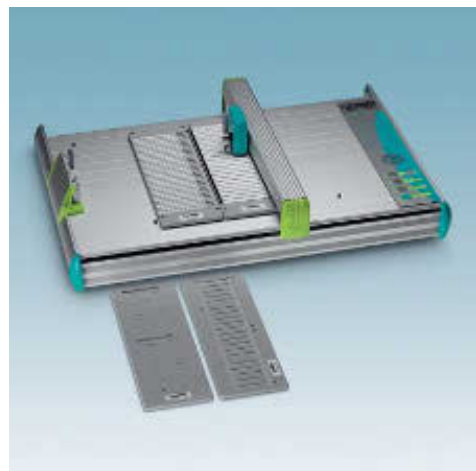
Accessories		
P1 GRAVER 0.2	5145478	1
P1 GRAVER 0.3	5145481	1
P1 GRAVER 0.4	5145494	1
P1 GRAVER 0.5	5145504	1
P1 GRAVER 0.7	5145517	1
P1 GRAVER 1.0	5145520	1

Vacuum cleaner bag , 5 replacement bags
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



Exchangeable magazines for CMS-P1-PLOTTER



- Rugged plastic magazines for labeling all commercially available marking materials
- Even compatible with marking sheets that have already been started
- Option of partial labeling
- In terms of its size, the magazine utilizes plotter capacity to the full
- When used in conjunction with the CMS-P1-PLOTTER, up to 35 percent more material can be processed per labeling operation than with the predecessor model
- We offer a wide 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 CMS-WMU universal 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 pens for high-quality product labeling
- Wipe-resistant with a perfect appearance
- Totally integrated product range comprising plotter pens, ink, and cleaning fluid for the CMS-P1-PLOTTER plotter
- Both reusable and disposable plotter pens are available

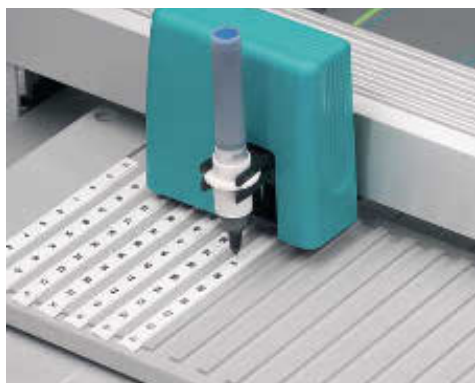


Description	Color
Disposable plotter pen , non-refillable plotter pen, with pen station, completely filled with 1 ml CMS-INK-EK-C 5 ink, for exacting requirements	
Line thickness 0.25 mm	black
Line thickness 0.35 mm	black
Disposable pen, non-refillable , for manual labeling, can also be used for plotter marking when combined with the P-PEN ADAPTER	
	black
Aluminum adapter , to fix the P-PEN for plotter marking	
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	

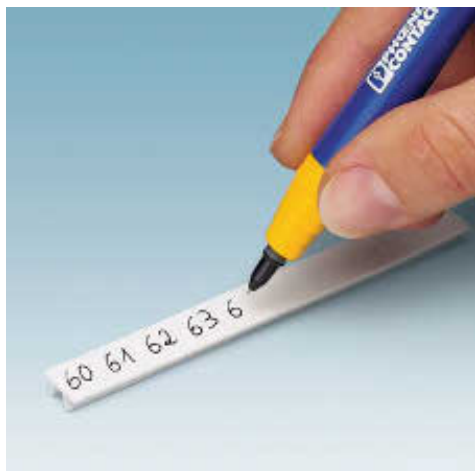
Cleaning set for pens , comprising: 1 cleaning cup, 2 cartridges of 10 ml cleaning fluid each and 2 spare sealing caps for the pen station	
	black
Cleaning cartridges with spare sealing caps , 2 cartridges of 10 ml cleaning fluid each and 2 caps	
Ink cartridge , for CMS-PEN...	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
CMS-DISPOSABLE-PEN 0,25 EK	5146601	1
CMS-DISPOSABLE-PEN 0,35 EK	5146602	1
P-PEN	0815211	10
P-PEN ADAPTER	0815224	1
CMS-PEN 0,25	5067815	1
CMS-PEN 0,35	5067828	1
CMS-PEN 0,50	5067831	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-R-SET-RO	5144385	1
CMS-R-FLUID-MEKF-C2	5144372	1
CMS-INK-EK-C 5	5146600	1



Marker pen for manual labeling



- High-quality labeling of unprinted marking materials is also possible without the use of labeling 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
Marker pen, refillable , for manual labeling, 0.35 mm line thickness, can be refilled with CMS-INK-EK-C 5, supplied without ink	black
Marker pen, non-refillable , for manual labeling, 0.5 mm line thickness	black
Ink cartridge , for CMS-PEN...	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
X-PEN 0,35	0811228	1
B-STIFT	1051993	10
Accessories		
CMS-INK-EK-C 5	5146600	1

Marker pen for plotter and manual labeling



- High-quality labeling 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
Disposable pen, non-refillable , for manual labeling, can also be used for plotter marking when combined with the P-PEN ADAPTER	black
Aluminum adapter , to fix the P-PEN for plotter marking	

Ordering data		
Type	Order No.	Pcs. / Pkt.
P-PEN	0815211	10
Accessories		
P-PEN ADAPTER	0815224	1

MARKING system

Printers

Complete list of materials/printers



Labeling system

BLUEMARK LED

THERMOMARK CARD

THERMOMARK ROLL

Terminal marking

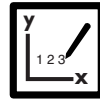
UC-TM...	Page 50		
UC-TMF...	Page 54		
UC-TMN...	Page 57		
UCT-TM...	Page 72	Page 72	
UCT-TMF...	Page 76	Page 76	
UC1-TM... / UC2-TM... / UC3-TM...	Page 98		
UCT1-... / UCT2-... / UCT3-... / UCT5-...	Page 108	Page 108	
ZB...			
ZBF...			
TMT...			Page 82
TML...			Page 85
SK...			Page 86

Conductor marking/cable marking

UC-WMC...	Page 137		
UC-WMTBA...	Page 152		
UC-WMT...	Page 148		
EMT...			Page 172
WMT.../WMTB...			Page 174
WML...			Page 160
KML/FKML...			
WMS...			Page 164
WMS... (continuous shrink sleeves)			Page 168
UCT-WMS...	Page 154	Page 154	
US-WMT... / WMTB...		Page 155	

Device marking

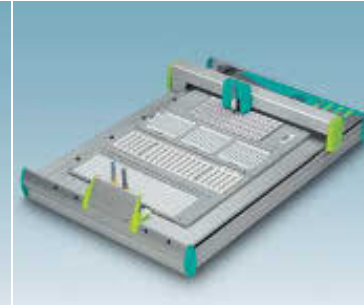
UC-EMLP...	Page 196		
UC-EMP...	Page 199		
UC-EM...	Page 202		
EML...			Page 212
EMLP...			Page 216
US-EMLP...		Page 204	
US-EMP... / US-EMSP..		Page 208	
US-EML...		Page 211	
GPE...			
BMK...			
BMKL...			



THERMOMARK X1.2



THERMOMARK W2



CMS-P1-PLOTTER



P1 ENGRAVING UNIT

Page 50

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Page 57

Page 98

Page 58

Page 66

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Page 152

Page 148

Page 172

Page 174

Page 160

Page 163

Page 164

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Page 196

Page 199

Page 202

Page 212

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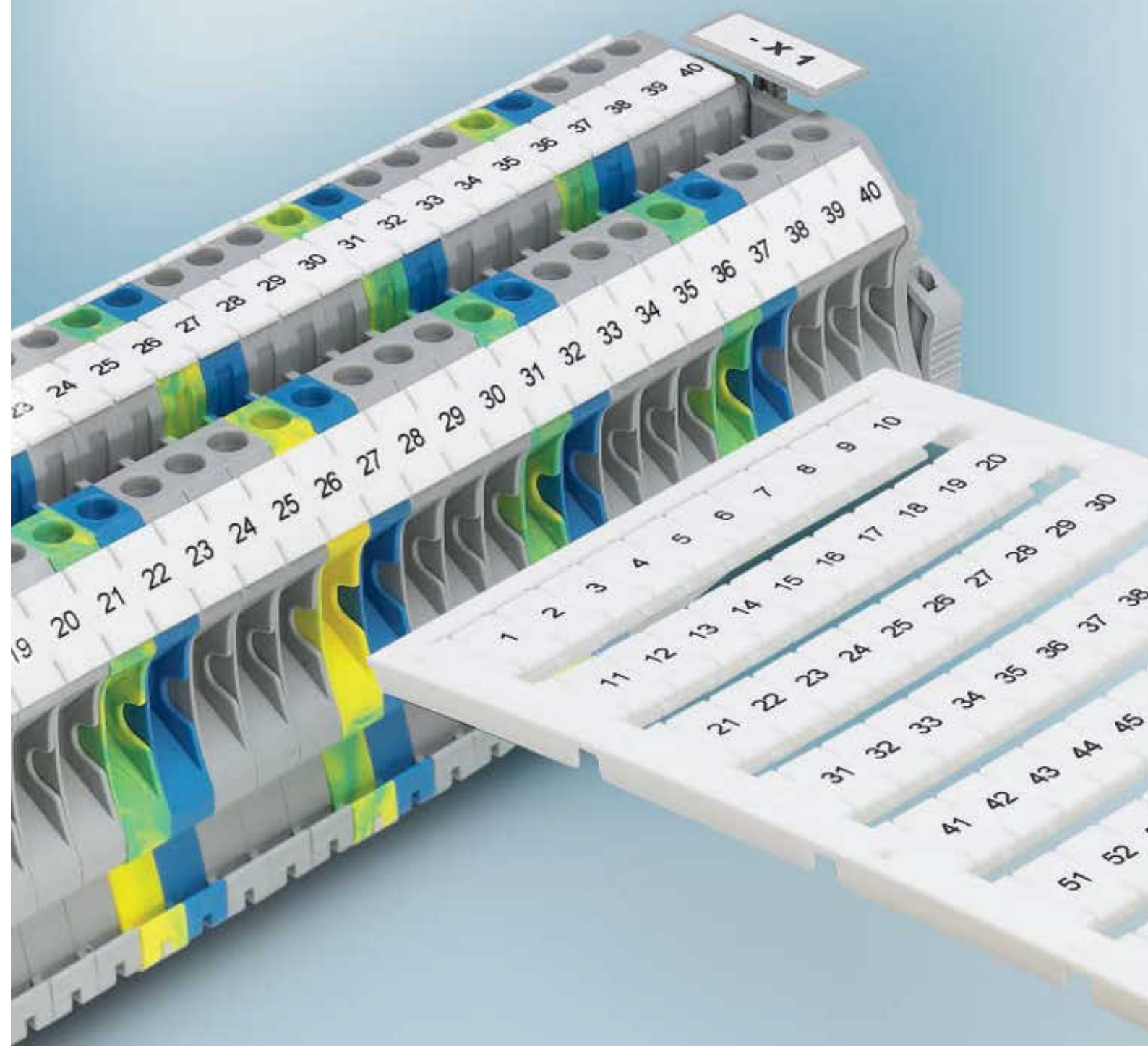
Page 216

Page 226

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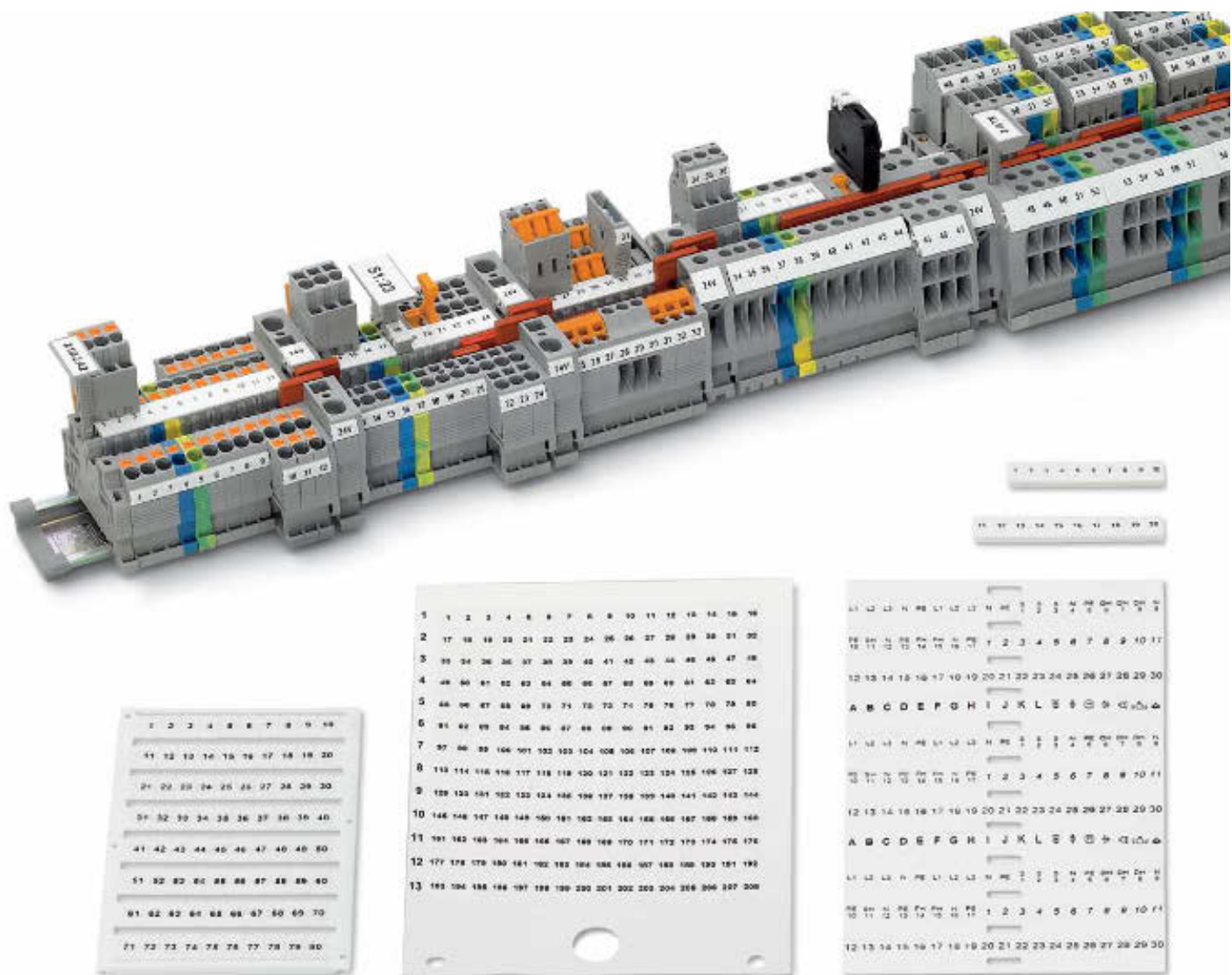
MARKING system – Terminal marking

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

Phoenix Contact terminal markers are designed specifically for the terminal blocks. They are available with or without labeling on cards, rolls or normal sheets.

Product range overview

Terminal marking	48
UniCard terminal marking for vertical marker groove	50
UniCard terminal marking for horizontal marker groove	54
UniCard terminal marking for marking stud holder	57
Zack marker strip terminal marking for vertical marker groove	58
Zack marker strip terminal marking for horizontal marker groove	66
UniCard terminal marking for vertical marker groove	72
UniCard terminal marking for horizontal marker groove	76
UniSheet terminal marking for universal marker groove	80
UniSheet terminal marking for horizontal marker groove	81
Marker strips for terminal marking, for vertical and horizontal marker grooves	82
Self-adhesive marker strips	85
Self-adhesive marker strips for terminal blocks without marker groove	86
Overview of terminal marking for Phoenix Contact	92
UniCard marking for terminal blocks from other manufacturers with high and flat marker groove	98
UniSheet marking for terminal blocks from other manufacturers	114
Overview of terminal marking for terminal blocks from other manufacturers	116
Ordering example for special labeling	243



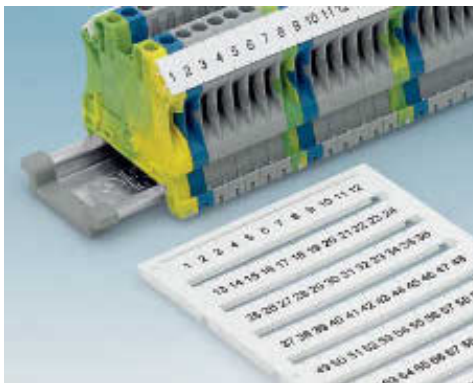
Those involved in control cabinet and system engineering are required to ensure meaningful labeling of electrical connecting elements and control cabinet components. As with comprehensive documentation, precise labeling of all terminal points makes it easier to set up and maintain the systems concerned.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

pending on the version, unlabeled terminal markers can be labeled using the various printing systems available from Phoenix Contact.

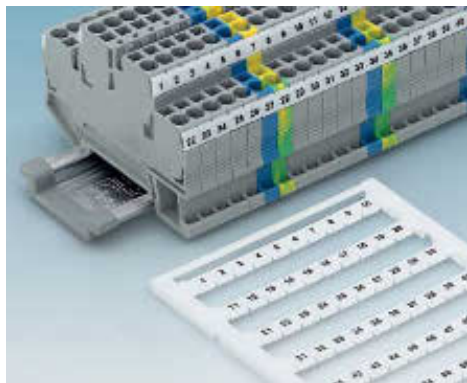
- Markers in UniCard format can be quickly and reliably labeled using the new **BLUEMARK LED printer**
- Markers in UniSheet format can be quickly and reliably labeled using the new **THERMOMARK CARD printer**
- Material off the roll has been specially developed for labeling using thermal transfer printers,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

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

Various marking labels are available for labeling terminal block groups in addition to the labeling 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 "Mounting material" section starting on page 336.



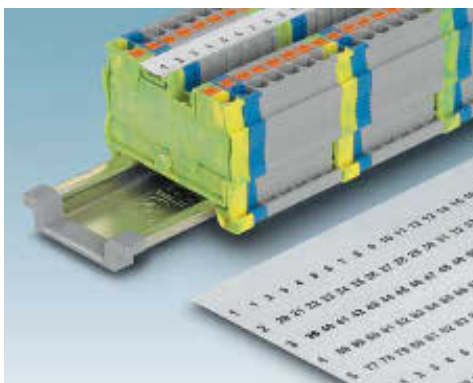
Markers are available in UniCard and UniSheet format for labeling terminal blocks with a vertical marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



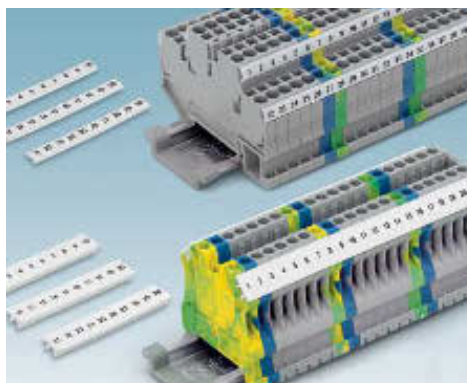
Markers are available in UniCard and UniSheet format for terminal blocks, modules, and connectors with a horizontal marker groove. They can be supplied unprinted or printed in accordance with customer requirements.



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



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



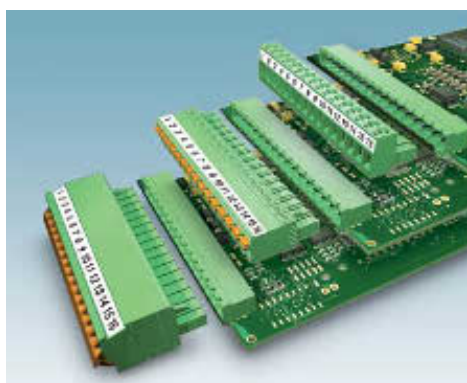
10-section zack marker strips are available in vertical and horizontal versions. They are used to mark modular terminal blocks, modules or connectors and can be supplied unprinted or printed.



Unlabeled 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 vertical and horizontal 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 format for labeling modular terminal blocks from other manufacturers.

Terminal marking

UniCard terminal marking for a vertical marker groove

Can be printed with:



BLUEMARK



Plotter



120 markers for a terminal block width of 4.2 mm



- The UC-TM ... UniCard labeling range includes markers for products with vertical marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	120
Number of individual labels per strip	15
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	120
Number of individual labels per strip	15
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a marker groove				
	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
UniCard, for labeling terminal blocks with a marker groove, labeled acc. to customer specifications¹⁾				
	white	UC-TM 4 CUS	0824573	1
	red	UC-TM 4 RD CUS	0824577	1
	orange	UC-TM 4 OG CUS	0824576	1
	yellow	UC-TM 4 YE CUS	0824579	1
	violet	UC-TM 4 VT CUS	0824578	1
	blue	UC-TM 4 BU CUS	0824574	1
	green	UC-TM 4 GN CUS	0824575	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
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96 markers for a terminal block width of 5.2 mm



80 markers for a terminal block width of 6.2 mm



56 markers for a terminal block width of 8.2 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
96
12
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-TM 5	0818108	10
UC-TM 5 RD	0818302	10
UC-TM 5 OG	0818276	10
UC-TM 5 YE	0818289	10
UC-TM 5 VT	0819107	10
UC-TM 5 BU	0818292	10
UC-TM 5 GN	0818315	10
UC-TM 5 CUS	0824581	1
UC-TM 5 RD CUS	0824585	1
UC-TM 5 OG CUS	0824584	1
UC-TM 5 YE CUS	0824587	1
UC-TM 5 VT CUS	0824586	1
UC-TM 5 BU CUS	0824582	1
UC-TM 5 GN CUS	0824583	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 1	5146079	1

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
80
10
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-TM 6	0818085	10
UC-TM 6 RD	0818357	10
UC-TM 6 OG	0818328	10
UC-TM 6 YE	0818331	10
UC-TM 6 VT	0819110	10
UC-TM 6 BU	0818344	10
UC-TM 6 GN	0818360	10
UC-TM 6 CUS	0824589	1
UC-TM 6 RD CUS	0824593	1
UC-TM 6 OG CUS	0824592	1
UC-TM 6 YE CUS	0824595	1
UC-TM 6 VT CUS	0824594	1
UC-TM 6 BU CUS	0824590	1
UC-TM 6 GN CUS	0824591	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 1	5146079	1

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
56
7
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-TM 8	0818072	10
UC-TM 8 RD	0818409	10
UC-TM 8 OG	0818373	10
UC-TM 8 YE	0818386	10
UC-TM 8 VT	0819123	10
UC-TM 8 BU	0818399	10
UC-TM 8 GN	0818412	10
UC-TM 8 CUS	0824597	1
UC-TM 8 RD CUS	0824601	1
UC-TM 8 OG CUS	0824600	1
UC-TM 8 YE CUS	0824603	1
UC-TM 8 VT CUS	0824602	1
UC-TM 8 BU CUS	0824598	1
UC-TM 8 GN CUS	0824599	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 1	5146079	1

Terminal marking

UniCard terminal marking for a vertical marker groove

Can be printed with:



BLUEMARK



Plotter



48 markers for a terminal block width of 10.2 mm



- The UC-TM ... UniCard labeling range includes markers for products with vertical marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	48
Number of individual labels per strip	6
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	48
Number of individual labels per strip	6
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a marker groove				
	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 labeling terminal blocks with a marker groove, labeled acc. to customer specifications¹⁾				
	white	UC-TM 10 CUS	0824605	1
	white	UC-TM 10 RD CUS	0824609	1
	white	UC-TM 10 OG CUS	0824608	1
	white	UC-TM 10 YE CUS	0824611	1
	white	UC-TM 10 VT CUS	0824610	1
	white	UC-TM 10 BU CUS	0824606	1
	white	UC-TM 10 GN CUS	0824607	1

Accessories

Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 1	5146079	1
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40 markers for a terminal block width of 12 mm

32 markers for a terminal block width of 16 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
40
5
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-TM 12	0819194	10
UC-TM 12 RD	0817701	10
UC-TM 12 OG	0817691	10
UC-TM 12 YE	0819204	10
UC-TM 12 VT	0822660	10
UC-TM 12 BU	0817785	10
UC-TM 12 GN	0817808	10
UC-TM 12 CUS	0824613	1
UC-TM 12 RD CUS	0824617	1
UC-TM 12 OG CUS	0824616	1
UC-TM 12 YE CUS	0824619	1
UC-TM 12 VT CUS	0824618	1
UC-TM 12 BU CUS	0824614	1
UC-TM 12 GN CUS	0824615	1

Accessories		
P1 UC-MAG 1	5146079	1

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
32
4
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-TM 16	0819217	10
UC-TM 16 RD	0817798	10
UC-TM 16 OG	0817772	10
UC-TM 16 YE	0819220	10
UC-TM 16 VT	0822673	10
UC-TM 16 BU	0817769	10
UC-TM 16 GN	0817756	10
UC-TM 16 CUS	0824621	1
UC-TM 16 RD CUS	0824625	1
UC-TM 16 OG CUS	0824624	1
UC-TM 16 YE CUS	0824627	1
UC-TM 16 VT CUS	0824626	1
UC-TM 16 BU CUS	0824622	1
UC-TM 16 GN CUS	0824623	1

Accessories		
P1 UC-MAG 1	5146079	1

Terminal marking

UniCard terminal marking for a horizontal marker groove

- The UC-TMF ... UniCard labeling range includes markers for products with vertical and horizontal marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



120 markers for a terminal block width of 4.2 mm



96 markers for a terminal block width of 5.2 mm

Notes:
An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.
1) For ordering example, see page 243.

		Technical data			Technical data		
General data		BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER			BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER		
Can be printed with:		120			96		
Number of individual labels		15			12		
Number of individual labels per strip		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 120			-40 ... 120		
Temperature range		[°C] DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Silicone and halogen-free			Silicone and halogen-free		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a horizontal marker groove							
	white	UC-TMF 4	0818166	10	UC-TMF 5	0818153	10
	red	UC-TMF 4 RD	0818506	10	UC-TMF 5 RD	0818551	10
	orange	UC-TMF 4 OG	0818470	10	UC-TMF 5 OG	0818522	10
	yellow	UC-TMF 4 YE	0818483	10	UC-TMF 5 YE	0818535	10
	violet	UC-TMF 4 VT	0815897	10	UC-TMF 5 VT	0815907	10
	blue	UC-TMF 4 BU	0818496	10	UC-TMF 5 BU	0818548	10
	green	UC-TMF 4 GN	0818519	10	UC-TMF 5 GN	0818564	10
UniCard, for labeling terminal blocks with a horizontal marker groove, labeled acc. to customer specifications¹⁾							
	white	UC-TMF 4 CUS	0824630	1	UC-TMF 5 CUS	0824638	1
	red	UC-TMF 4 RD CUS	0824634	1	UC-TMF 5 RD CUS	0824642	1
	orange	UC-TMF 4 OG CUS	0824633	1	UC-TMF 5 OG CUS	0824641	1
	yellow	UC-TMF 4 YE CUS	0824636	1	UC-TMF 5 YE CUS	0824644	1
	violet	UC-TMF 4 VT CUS	0824635	1	UC-TMF 5 VT CUS	0824643	1
	blue	UC-TMF 4 BU CUS	0824631	1	UC-TMF 5 BU CUS	0824639	1
	green	UC-TMF 4 GN CUS	0824632	1	UC-TMF 5 GN CUS	0824640	1
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1



80 markers for a terminal block width of 6.2 mm



56 markers for a terminal block width of 8.2 mm



48 markers for a terminal block width of 10.2 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
80
10
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
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 6 CUS	0824646	1
UC-TMF 6 RD CUS	0824650	1
UC-TMF 6 OG CUS	0824649	1
UC-TMF 6 YE CUS	0824652	1
UC-TMF 6 VT CUS	0824651	1
UC-TMF 6 BU CUS	0824647	1
UC-TMF 6 GN CUS	0824648	1

Accessories

P1 UC-MAG 4	5146105	1
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Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
56
8
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
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
UC-TMF 8 CUS	0824654	1
UC-TMF 8 RD CUS	0824658	1
UC-TMF 8 OG CUS	0824657	1
UC-TMF 8 YE CUS	0824660	1
UC-TMF 8 VT CUS	0824659	1
UC-TMF 8 BU CUS	0824655	1
UC-TMF 8 GN CUS	0824656	1

Accessories

P1 UC-MAG 4	5146105	1
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Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
48
6
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-TMF 10	0818124	10
UC-TMF 10 RD	0818700	10
UC-TMF 10 OG	0818674	10
UC-TMF 10 YE	0818687	10
UC-TMF 10 VT	0815981	10
UC-TMF 10 BU	0818690	10
UC-TMF 10 GN	0818713	10
UC-TMF 10 CUS	0824662	1
UC-TMF 10 RD CUS	0824666	1
UC-TMF 10 OG CUS	0824665	1
UC-TMF 10 YE CUS	0824668	1
UC-TMF 10 VT CUS	0824667	1
UC-TMF 10 BU CUS	0824663	1
UC-TMF 10 GN CUS	0824664	1

Accessories

P1 UC-MAG 4	5146105	1
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Terminal marking

UniCard terminal marking for a horizontal marker groove

- The UC-TMF ... UniCard labeling range includes markers for products with vertical and horizontal marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



40 markers for a terminal block width of 12 mm



32 markers for a terminal block width of 16 mm

Notes:
An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.
1) For ordering example, see page 243.

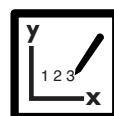
		Technical data			Technical data		
General data		BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER 40 5 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free			BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER 32 4 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a horizontal marker groove	white	UC-TMF 12	0819233	10	UC-TMF 16	0819262	10
	red	UC-TMF 12 RD	0817840	10	UC-TMF 16 RD	0817824	10
	orange	UC-TMF 12 OG	0817866	10	UC-TMF 16 OG	0817811	10
	yellow	UC-TMF 12 YE	0819246	10	UC-TMF 16 YE	0819259	10
	violet	UC-TMF 12 VT	0822686	10	UC-TMF 16 VT	0822699	10
	blue	UC-TMF 12 BU	0817853	10	UC-TMF 16 BU	0817905	10
	green	UC-TMF 12 GN	0817837	10	UC-TMF 16 GN	0817921	10
UniCard, for labeling terminal blocks with a horizontal marker groove, labeled acc. to customer specifications ¹⁾	white	UC-TMF 12 CUS	0824670	1	UC-TMF 16 CUS	0824678	1
	red	UC-TMF 12 RD CUS	0824674	1	UC-TMF 16 RD CUS	0824682	1
	orange	UC-TMF 12 OG CUS	0824673	1	UC-TMF 16 OG CUS	0824681	1
	yellow	UC-TMF 12 YE CUS	0824676	1	UC-TMF 16 YE CUS	0824684	1
	violet	UC-TMF 12 VT CUS	0824675	1	UC-TMF 16 VT CUS	0824683	1
	blue	UC-TMF 12 BU CUS	0824671	1	UC-TMF 16 BU CUS	0824679	1
	green	UC-TMF 12 GN CUS	0824672	1	UC-TMF 16 GN CUS	0824680	1
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

UniCard terminal marking for marking stud holder

Can be printed with:



BLUEMARK



Plotter



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

- The UC-TMN ... UniCard labeling 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 printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

General data

Can be printed with:	
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

BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
96
12
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Description	Color
UniCard, for labeling transformer terminal blocks	
96-section	white
64-section	white
48-section	white
UniCard, for labeling transformer terminal blocks, labeled acc. to customer specifications¹⁾	
96-section	white
64-section	white
48-section	white

Ordering data

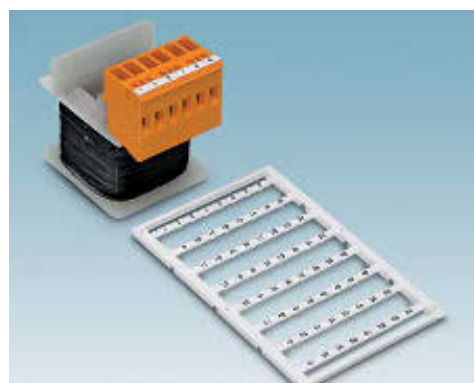
Type	Order No.	Pcs. / Pkt.
UC-TMN 5,2	0822945	10
UC-TMN 7,5	0821823	10
UC-TMN 10	0828554	10
UC-TMN 5,2 CUS	0826857	1
UC-TMN 7,5 CUS	0824690	1
UC-TMN 10 CUS	0829109	1

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 1	5146079	1
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Notes:
 An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.
¹⁾ For ordering example, see page 243.



Terminal marking

Zack marker strip terminal marking for a vertical marker groove



- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical marker grooves
- The multi-section marking strips are easy to fit and can be easily separated if required
- Other pitches are available on request
- Unlabeled marking strips can be custom-labeled with a plotter or by hand
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

Selection of labeling direction

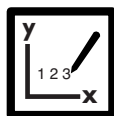
- Please take care to select the correct labeling direction for printed products
- ① "Printed horizontally" labeling, text is the right way round for a horizontally arranged terminal strip
- ② "Printed vertically" labeling, text is the right way round for a vertically arranged terminal strip

Notes:

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

2) For ordering example, see page 243.

Can be printed with:



Plotter



Markers for a terminal block width of 3.5 mm

General data

Can be printed with:	CMS-P1-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	Silicone and halogen-free

Description

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

As above, but large batch, enough to label 1000 terminal blocks

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

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⁾

Zack marker strip, special labeling, 10-section, can be separated, labeled acc. to customer specifications, (ZB 3,5 and ZB 4, max. 2 digits), please specify desired labeling when ordering²⁾

Magazine, for CMS-P1-PLOTTER

Technical data

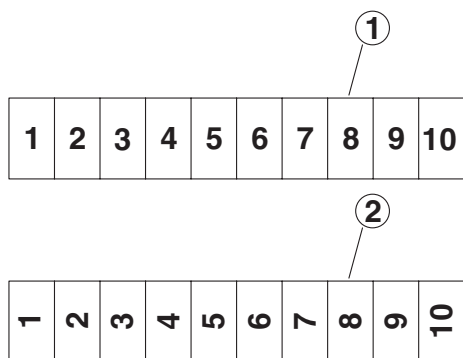
Can be printed with:	CMS-P1-PLOTTER
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

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:FORTL.ZAHLEN	0801405	10
ZB 3,5 CUS	0829415	1

Accessories

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



Markers for a terminal block width of 5.2 mm



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) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 4 :UNBEDRUCKT ZB 4/WH-100:UNBEDRUCKT	0805001 0805810	10 100
ZB 4,LGS:FORTL.ZAHLEN	0805739	10
ZB 4,QR:FORTL.ZAHLEN	0805807	10
ZB 4 CUS	0824951	1

Accessories		
CMS-P1-M/ZB	5144699	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 5 :UNBEDRUCKT ZB 5/WH-100:UNBEDRUCKT	1050004 5060906	10 100
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
ZB 5 CUS	0824962	1

Accessories		
CMS-P1-M/ZB	5144699	1

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

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 ZB 5,08,LGS:U-N	0809832 0809845	10 10
ZB 5,08,QR:FORTL.ZAHLEN	0809858	10
ZB 5,08 CUS	0824963	1

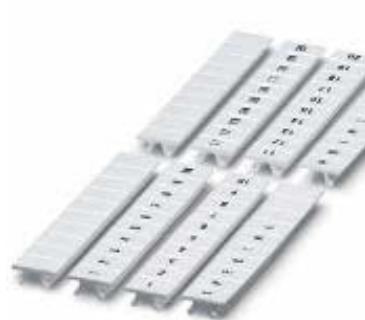
Accessories		
CMS-P1-M/ZB	5144699	1

MARKING system

Terminal marking

Zack marker strip terminal marking for a vertical marker groove

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 6.2 mm



Markers for a terminal block width of 6.6 mm

Notes:
1) 10 identically marked strips make up one packing unit (PU).
2) For ordering example, see page 243.

General data	
Can be printed with:	CMS-P1-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	Silicone and halogen-free
Ordering data	
Description	Color
Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	
As above, but large batch, enough to label 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	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	white
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE	white
U, V, W, N, ↓	white white
Zack marker strip, printed vertically, 10-section, with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100¹⁾	white
Zack marker strip, special labeling, 10-section, can be separated, labeled acc. to customer specifications, please specify desired labeling when ordering²⁾	white
Accessories	
Magazine, for CMS-P1-PLOTTER	

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 6:UNBEDRUCKT	1051003	10
ZB 6,LGS:FORTL.ZAHLEN	1051016	10
ZB 6,LGS:GLEICHE ZAHLEN	1051032	10
ZB 6,LGS:L1-N,PE	1051414	10
ZB 6,LGS:U-N	1051430	10
ZB 6,QR:FORTL.ZAHLEN	1051029	10
ZB 6 CUS	0824992	1
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 6,6:UNBEDRUCKT	1052332	10
ZB 6,6,LGS:FORTL.ZAHLEN	1052345	10
ZB 6,6 CUS	0824978	1
Accessories		
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) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 7,5:UNBEDRUCKT	0803948	10
ZB 7,5 CUS	0824994	1

Accessories		
CMS-P1-M/ZB	5144699	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 7,62:UNBEDRUCKT ZB 7,62/WH-100:UNBEDRUCKT	1054000 5060922	10 100
ZB 7,62,LGS:FORTL.ZAHLEN	1054233	10
ZB 7,62 CUS	0824997	1

Accessories		
CMS-P1-M/ZB	5144699	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 8:UNBEDRUCKT ZB 8/WH-100:UNBEDRUCKT	1052002 5060896	10 100
ZB 8,LGS:FORTL.ZAHLEN	1052015	10
ZB 8,LGS:L1-N,PE	1052413	10
ZB 8,QR:FORTL.ZAHLEN	1052028	10
ZB 8 CUS	0825011	1

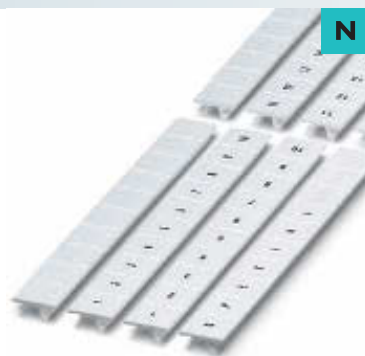
Accessories		
CMS-P1-M/ZB	5144699	1

MARKING system

Terminal marking

Zack marker strip terminal marking for a vertical marker groove

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical marker grooves
- Labeling service: Phoenix Contact can custom-label 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).
2) For ordering example, see page 243.

General data

Can be printed with:	CMS-P1-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	Silicone and halogen-free

Technical data

Can be printed with:	CMS-P1-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	Silicone and halogen-free

Technical data

Can be printed with:	CMS-P1-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	Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 9:UNBEDRUCKT	0829127	10
ZB 9 CUS	0829128	1

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 10:UNBEDRUCKT	1053001	10
ZB10/WH-100:UNBEDRUCKT	5060883	100
ZB10,LGS:FORTL.ZAHLEN	1053014	10
ZB10,LGS:GLEICHE ZAHLEN	1053030	10
ZB10,LGS:L1-N,PE	1053412	10
ZB10,LGS:U-N	1053438	10
ZB10,QR:FORTL.ZAHLEN	1053027	10
ZB 10 CUS	0824941	1

Description

Zack marker strip, 10-section, unprinted: pack contains enough to label 100 terminal blocks	Color
As above, but large batch, enough to label 1000 terminal blocks	white
5-section	white
Zack marker strip, flat, 10-section, printed horizontally: with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100 ¹⁾	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 ¹⁾	white
Zack marker strip, 10-section, printed horizontally: with L1, L2, L3, N, PE ¹⁾	white
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
Zack marker strip, special labeling, 10-section, can be separated, labeled acc. to customer specifications, please specify desired labeling when ordering ²⁾	white
5-section	white

Accessories

CMS-P1-M/ZB	5144699	1
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Accessories

CMS-P1-M/ZB	5144699	1
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Magazine, for CMS-P1-PLOTTER



Markers for a terminal block width of 12 mm



Markers for a terminal block width of 13 mm



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) Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 12:UNPRINTED	0812120	10
ZB 12,LGS:L1-N,PE	0812146	10
ZB 12 CUS	0824942	1

Accessories

CMS-P1-M/ZB	5144699	1
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Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 13:UNBEDRUCKT	0829131	10
ZB 13 CUS	0829132	1

Accessories

CMS-P1-M/ZB	5144699	1
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Technical data
CMS-P1-PLOTTER PA V2 -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
ZB 15:UNBEDRUCKT	0811972	10
ZB 15,LGS:L1-N,PE	0811998	10
ZB 15 CUS	0824945	1

Accessories

CMS-P1-M/ZB	5144699	1
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MARKING system

Terminal marking

Zack marker strip terminal marking for a vertical marker groove

- The ZB zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical marker grooves
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements



Markers for a terminal block width of 16.3 mm



Markers for a terminal block width of 17 mm

Notes:
1) 10 identically marked strips make up one packing unit (PU).
2) For ordering example, see page 243.

General data	
Can be printed with:	CMS-P1-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	Silicone and halogen-free
Description	
Zack marker strip, 5-section, unprinted: pack contains enough to label 50 terminal blocks	Color: white
4-section, for 40 terminal blocks	white
Zack marker strip, 5-section, printed horizontally: with L1, L2, L3, N, PE ¹⁾	white
4-section	white
Zack marker strip, special labeling, 5-section, can be separated, labeled acc. to customer specifications, please specify desired labeling when ordering ²⁾	white
4-section	white
Magazine, for CMS-P1-PLOTTER	

Technical data		
CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Silicone and halogen-free		
Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 16,3:UNPRINTED	0820222	10
ZB 16,3 CUS	0824946	1
Accessories		
CMS-P1-M/ZB	5144699	1

Technical data		
CMS-P1-PLOTTER		
PA		
V2		
-40 ... 100		
DIN EN 61010-1 (VDE 0411-1)		
Silicone and halogen-free		
Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 17:UNBEDRUCKT	0829391	10
ZB 17 CUS	0829393	1
Accessories		
CMS-P1-M/ZB	5144699	1



Markers for a terminal block width of 18 mm



Markers for a terminal block width of 22 mm

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 18:UNBEDRUCKT	0811833	10
ZB 18,LGS:L1-N,PE	0811846	10
ZB 18 CUS	0824947	1

Accessories		
CMS-P1-M/ZB	5144699	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZB 22:UNBEDRUCKT	0811862	10
ZB 22,LGS:L1-N,PE	0811875	10
ZB 22 CUS	0824949	1

Accessories		
CMS-P1-M/ZB	5144699	1

Terminal marking

Zack marker strip terminal marking for horizontal marker groove



- The ZBF horizontal zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical and horizontal marker grooves
- The multi-section marking strips are easy to fit and can be easily separated if required
- Other pitches are available on request
- Unlabeled marking strips can be custom-labeled with a plotter or by hand
- Labeling service: Phoenix Contact can custom-label all zack marker strip markers in accordance with your requirements

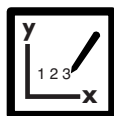
Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92

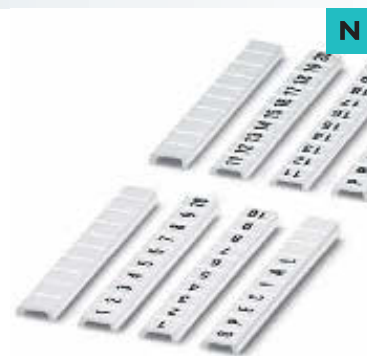
¹⁾ 10 identically marked strips make up one packing unit (PU).

²⁾ For ordering example, see page 243.

Can be printed with:



Plotter



Markers for a terminal block width of 3.5 mm

General data

Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Zack marker strip, horizontal, 10-section, unprinted: pack contains enough to label 100 terminal blocks	
As above, but large batch, enough to label 1000 terminal blocks	white white
Zack marker strip, horizontal, printed horizontally, 10-section, 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
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 digits)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 digits)¹⁾	white
Zack marker strip, flat, printed vertically, 10-section, with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100¹⁾	white
Zack marker strip, special labeling, horizontal, 10-section, can be separated, labeled acc. to customer specifications, (ZBF 3,5 and ZBF 4, max. 2 digits), please specify desired labeling when ordering²⁾	white

Magazine, for CMS-P1-PLOTTER

Technical data

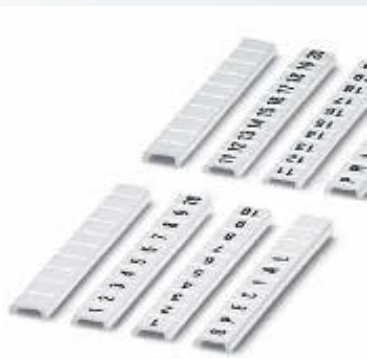
CMS-P1-PLOTTER
PA
V2
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

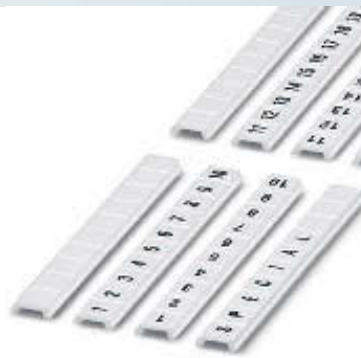
Type	Order No.	Pcs./ Pkt.
ZBF 3,5:UNBEDRUCKT	0829392	10
ZBF 3,5,LGS:FORTL.ZAHLEN	0801406	10
ZBF 3,5,QR:FORTL.ZAHLEN	0801407	10
ZBF 3,5 CUS	0829394	1

Accessories

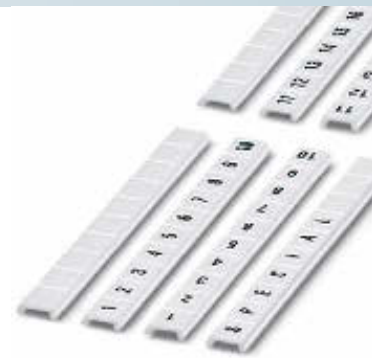
CMS-P1-M/ZBF	5144709	1
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Markers for a terminal block width of 4.2 mm



Markers for a terminal block width of 5.2 mm



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) Silicone and halogen-free

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
ZBF 4 CUS	0825023	1

Accessories		
CMS-P1-M/ZBF	5144709	1

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

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
ZBF 5 CUS	0825025	1

Accessories		
CMS-P1-M/ZBF	5144709	1

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

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
ZBF 6 CUS	0825027	1

Accessories		
CMS-P1-M/ZBF	5144709	1

MARKING system

Terminal marking

Zack marker strip terminal marking for horizontal marker groove

- The ZBF horizontal zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical and horizontal marker grooves
- Labeling service: Phoenix Contact can custom-label 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).

2) For ordering example, see page 243.

General data	
Can be printed with:	
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)		
Silicone and halogen-free		

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

Description	Color
Zack marker strip, flat, 10-section, unprinted	
5-section	white
Zack marker strip, flat, printed horizontally , 10-section, with consecutive numbers, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100 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
Zack marker strip, flat, special labeling , 10-section, can be separated, labeled acc. to customer specifications, please specify desired labeling when ordering ²⁾	white
5-section	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 7,5:UNBEDRUCKT	0809942	10
ZBF 7,5,LGS:FORTL.ZAHLEN	0809955	10
ZBF 7,5,QR:FORTL.ZAHLEN	0809968	10
ZBF 7,5 CUS	0825028	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 8:UNBEDRUCKT	0808781	10
ZBF 8,LGS:FORTL.ZAHLEN	0808804	10
ZBF 8 CUS	0825030	1

Accessories	
Magazine, for CMS-P1-PLOTTER	

Accessories		
CMS-P1-M/ZBF	5144709	1

Accessories		
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) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 9:UNBEDRUCKT	0829129	10
ZBF 9 CUS	0829130	1

Accessories		
CMS-P1-M/ZBF	5144709	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF10:UNBEDRUCKT	0809997	10
ZBF10,LGS:FORTL.ZAHLEN	0810009	10
ZBF10,QR:FORTL.ZAHLEN	0810025	10
ZBF10 CUS	0825031	1

Accessories		
CMS-P1-M/ZBF	5144709	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 12:UNBEDRUCKT	0809735	10
ZBF 12 CUS	0825018	1

Accessories		
CMS-P1-M/ZBF	5144709	1

MARKING system

Terminal marking

Zack marker strip terminal marking for horizontal marker groove

- The ZBF horizontal zack marker strip system is a labeling solution for modular terminal blocks and electronic modules with vertical and horizontal marker grooves
- Labeling service: Phoenix Contact can custom-label 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

Notes:

1) For ordering example, see page 243.

General data	
Can be printed with:	
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)		
Silicone and halogen-free		

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

Description	Color
Zack marker strip, flat, 5-section, unprinted	white
Zack marker strip, special labeling, 5-section, can be separated, labeled acc. to customer specifications, please specify desired labeling when ordering ¹⁾	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 13:UNBEDRUCKT	0829133	10
ZBF 13 CUS	0829134	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 15:UNBEDRUCKT	0811202	10
ZBF 15 CUS	0825019	1

Magazine, for CMS-P1-PLOTTER	

Accessories		
CMS-P1-M/ZBF	5144709	1

Accessories		
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) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 16:UNPRINTED	0827464	10
ZBF 16 CUS	0827465	1

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

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 17:UNBEDRUCKT	0815020	10
ZBF 17 CUS	0825020	1

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

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
ZBF 19,7:UNBEDRUCKT	0810627	10
ZBF 19,7 CUS	0825021	1

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

Terminal marking

UniCard terminal marking for a vertical marker groove



- The UCT-TM... UniCard labeling range includes markers for products with vertical marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK LED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92

1) For ordering example, see page 243.

Can be printed with:



Thermal transfer for cards



BLUEMARK



102 markers for a terminal block width of 3.5 mm

N

General data

Can be printed with:	
Number of individual labels	102
Number of individual labels per strip	17
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
102
17
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a marker groove				
	white	UCT-TM 3,5	0829484	10
	red	UCT-TM 3,5 RD	0829505	10
	orange	UCT-TM 3,5 OG	0829506	10
	yellow	UCT-TM 3,5 YE	0829485	10
	violet	UCT-TM 3,5 VT	0829507	10
	blue	UCT-TM 3,5 BU	0829508	10
	green	UCT-TM 3,5 GN	0829509	10
UniCard, for labeling terminal blocks with a marker groove, labeled acc. to customer specifications¹⁾				
	white	UCT-TM 3,5 CUS	0829581	1
	red	UCT-TM 3,5 RD CUS	0829582	1
	orange	UCT-TM 3,5 OG CUS	0829583	1
	yellow	UCT-TM 3,5 YE CUS	0829584	1
	violet	UCT-TM 3,5 VT CUS	0829585	1
	blue	UCT-TM 3,5 BU CUS	0829586	1
	green	UCT-TM 3,5 GN CUS	0829587	1

Accessories

Magazine, for THERMOMARK CARD, for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ...

THERMOMARK CARD-UCT-MAG1	5146480	1
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N



84 markers for a terminal block width of 4.2 mm

N



72 markers for a terminal block width of 5.2 mm

N



60 markers for a terminal block width of 6.2 mm

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
84
14
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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 4 CUS	0829588	1
UCT-TM 4 RD CUS	0829589	1
UCT-TM 4 OG CUS	0829590	1
UCT-TM 4 YE CUS	0829591	1
UCT-TM 4 VT CUS	0829592	1
UCT-TM 4 BU CUS	0829593	1
UCT-TM 4 GN CUS	0829594	1

Accessories		
THERMOMARK CARD-UCT-MAG1	5146480	1

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
72
12
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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 5 CUS	0829595	1
UCT-TM 5 RD CUS	0829596	1
UCT-TM 5 OG CUS	0829597	1
UCT-TM 5 YE CUS	0829598	1
UCT-TM 5 VT CUS	0829599	1
UCT-TM 5 BU CUS	0829600	1
UCT-TM 5 GN CUS	0829601	1

Accessories		
THERMOMARK CARD-UCT-MAG1	5146480	1

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
60
10
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UCT-TM 6 CUS	0829602	1
UCT-TM 6 RD CUS	0829603	1
UCT-TM 6 OG CUS	0829604	1
UCT-TM 6 YE CUS	0829605	1
UCT-TM 6 VT CUS	0829606	1
UCT-TM 6 BU CUS	0829607	1
UCT-TM 6 GN CUS	0829608	1

Accessories		
THERMOMARK CARD-UCT-MAG1	5146480	1

Terminal marking

UniCard terminal marking for a vertical marker groove

- The UCT-TM... UniCard labeling range includes markers for products with vertical marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



48 markers for a terminal block width of 7.62 mm



42 markers for a terminal block width of 8.2 mm

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
Number of individual labels	48
Number of individual labels per strip	8
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data		
Can be printed with:	THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED	
Number of individual labels	42	
Number of individual labels per strip	7	
Material	PC	
Inflammability class according to UL 94	V0	
Temperature range	-40 ... 120	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	

Technical data		
Can be printed with:	THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED	
Number of individual labels	42	
Number of individual labels per strip	7	
Material	PC	
Inflammability class according to UL 94	V0	
Temperature range	-40 ... 120	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	

Ordering data	
Description	Color
UniCard, for labeling terminal blocks with a marker groove	
	white
	red
	orange
	yellow
	violet
	blue
	green
UniCard, for labeling terminal blocks with a marker groove, labeled acc. to customer specifications ¹⁾	
	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TM 7,62	0828738	10
UCT-TM 7,62 RD	0829510	10
UCT-TM 7,62 OG	0829511	10
UCT-TM 7,62 YE	0828739	10
UCT-TM 7,62 VT	0829512	10
UCT-TM 7,62 BU	0829513	10
UCT-TM 7,62 GN	0829514	10
UCT-TM 7,62 CUS	0829609	1
UCT-TM 7,62 RD CUS	0829610	1
UCT-TM 7,62 OG CUS	0829611	1
UCT-TM 7,62 YE CUS	0829612	1
UCT-TM 7,62 VT CUS	0829613	1
UCT-TM 7,62 BU CUS	0829614	1
UCT-TM 7,62 GN CUS	0829615	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TM 8	0828740	10
UCT-TM 8 RD	0829164	10
UCT-TM 8 OG	0829165	10
UCT-TM 8 YE	0828741	10
UCT-TM 8 VT	0829166	10
UCT-TM 8 BU	0829167	10
UCT-TM 8 GN	0829168	10
UCT-TM 8 CUS	0829616	1
UCT-TM 8 RD CUS	0829617	1
UCT-TM 8 OG CUS	0829618	1
UCT-TM 8 YE CUS	0829619	1
UCT-TM 8 VT CUS	0829620	1
UCT-TM 8 BU CUS	0829621	1
UCT-TM 8 GN CUS	0829622	1

Accessories		
Magazine, for THERMOMARK CARD, for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ...		
THERMOMARK CARD-UCT-MAG1	5146480	1

Accessories		
Magazine, for THERMOMARK CARD, for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ...		
THERMOMARK CARD-UCT-MAG1	5146480	1

Accessories		
Magazine, for THERMOMARK CARD, for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ...		
THERMOMARK CARD-UCT-MAG1	5146480	1

N



36 markers for a terminal block width of 10.2 mm

N



30 markers for a terminal block width of 12 mm

N



18 markers for a terminal block width of 16 mm

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
36
6
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TM 10	0829142	10
UCT-TM 10 RD	0829169	10
UCT-TM 10 OG	0829170	10
UCT-TM 10 YE	0829143	10
UCT-TM 10 VT	0829171	10
UCT-TM 10 BU	0829172	10
UCT-TM 10 GN	0829173	10
UCT-TM 10 CUS	0829623	1
UCT-TM 10 RD CUS	0829624	1
UCT-TM 10 OG CUS	0829625	1
UCT-TM 10 YE CUS	0829626	1
UCT-TM 10 VT CUS	0829627	1
UCT-TM 10 BU CUS	0829628	1
UCT-TM 10 GN CUS	0829629	1

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

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
30
5
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TM 12	0829144	10
UCT-TM 12 RD	0829174	10
UCT-TM 12 OG	0829175	10
UCT-TM 12 YE	0829145	10
UCT-TM 12 VT	0829176	10
UCT-TM 12 BU	0829177	10
UCT-TM 12 GN	0829178	10
UCT-TM 12 CUS	0829630	1
UCT-TM 12 RD CUS	0829631	1
UCT-TM 12 OG CUS	0829632	1
UCT-TM 12 YE CUS	0829633	1
UCT-TM 12 VT CUS	0829634	1
UCT-TM 12 BU CUS	0829635	1
UCT-TM 12 GN CUS	0829636	1

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

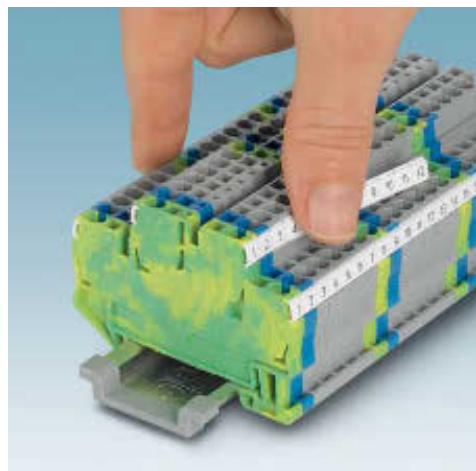
Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
18
3
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TM 16	0829146	10
UCT-TM 16 RD	0829179	10
UCT-TM 16 OG	0829180	10
UCT-TM 16 YE	0829147	10
UCT-TM 16 VT	0829181	10
UCT-TM 16 BU	0829182	10
UCT-TM 16 GN	0829183	10
UCT-TM 16 CUS	0829637	1
UCT-TM 16 RD CUS	0829638	1
UCT-TM 16 OG CUS	0829639	1
UCT-TM 16 YE CUS	0829640	1
UCT-TM 16 VT CUS	0829641	1
UCT-TM 16 BU CUS	0829642	1
UCT-TM 16 GN CUS	0829643	1

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

Terminal marking

UniCard terminal marking for a horizontal marker groove



- The UCT-TMF ... UniCard labeling range includes markers for products with vertical and horizontal marker grooves
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK LED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.

1) For ordering example, see page 243.

Can be printed with:



Thermal transfer for cards



BLUEMARK



108 markers for a terminal block width of 3.5 mm

N

General data

Can be printed with:	
Number of individual labels	108
Number of individual labels per strip	18
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

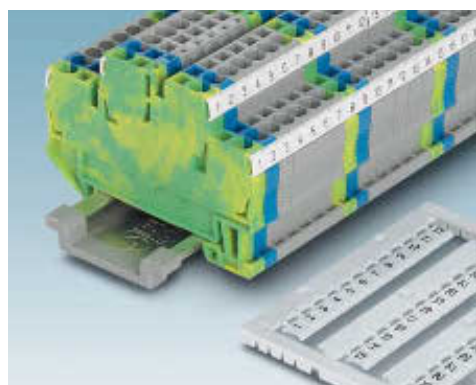
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
108
18
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks with a horizontal marker groove	white	UCT-TMF 3,5	0829486	10
	red	UCT-TMF 3,5 RD	0829515	10
	orange	UCT-TMF 3,5 OG	0829516	10
	yellow	UCT-TMF 3,5 YE	0829487	10
	violet	UCT-TMF 3,5 VT	0829517	10
	blue	UCT-TMF 3,5 BU	0829518	10
	green	UCT-TMF 3,5 GN	0829519	10
UniCard, for labeling terminal blocks with a horizontal marker groove, labeled acc. to customer specifications ¹⁾	white	UCT-TMF 3,5 CUS	0829644	1
	red	UCT-TMF 3,5 RD CUS	0829645	1
	orange	UCT-TMF 3,5 OG CUS	0829646	1
	yellow	UCT-TMF 3,5 YE CUS	0829647	1
	violet	UCT-TMF 3,5 VT CUS	0829648	1
	blue	UCT-TMF 3,5 BU CUS	0829649	1
	green	UCT-TMF 3,5 GN CUS	0829650	1

Accessories

Magazine, for THERMOMARK CARD, for accommodating: UCT-TMF ...		
THERMOMARK CARD-UCT-MAG2	5146563	1



N



90 markers for a terminal block width of 4.2 mm

N



72 markers for a terminal block width of 5.2 mm

N



60 markers for a terminal block width of 6.2 mm

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
90
15
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TMF 4	0828742	10
UCT-TMF 4 RD	0829184	10
UCT-TMF 4 OG	0829185	10
UCT-TMF 4 YE	0828743	10
UCT-TMF 4 VT	0829186	10
UCT-TMF 4 BU	0829187	10
UCT-TMF 4 GN	0829188	10
UCT-TMF 4 CUS	0829651	1
UCT-TMF 4 RD CUS	0829652	1
UCT-TMF 4 OG CUS	0829653	1
UCT-TMF 4 YE CUS	0829654	1
UCT-TMF 4 VT CUS	0829655	1
UCT-TMF 4 BU CUS	0829656	1
UCT-TMF 4 GN CUS	0829657	1

Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
72
12
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TMF 5	0828744	10
UCT-TMF 5 RD	0829189	10
UCT-TMF 5 OG	0829190	10
UCT-TMF 5 YE	0828745	10
UCT-TMF 5 VT	0829191	10
UCT-TMF 5 BU	0829192	10
UCT-TMF 5 GN	0829193	10
UCT-TMF 5 CUS	0829658	1
UCT-TMF 5 RD CUS	0829659	1
UCT-TMF 5 OG CUS	0829660	1
UCT-TMF 5 YE CUS	0829661	1
UCT-TMF 5 VT CUS	0829662	1
UCT-TMF 5 BU CUS	0829663	1
UCT-TMF 5 GN CUS	0829664	1

Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
60
10
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TMF 6	0828746	10
UCT-TMF 6 RD	0829194	10
UCT-TMF 6 OG	0829195	10
UCT-TMF 6 YE	0828747	10
UCT-TMF 6 VT	0829196	10
UCT-TMF 6 BU	0829197	10
UCT-TMF 6 GN	0829198	10
UCT-TMF 6 CUS	0829665	1
UCT-TMF 6 RD CUS	0829666	1
UCT-TMF 6 OG CUS	0829667	1
UCT-TMF 6 YE CUS	0829668	1
UCT-TMF 6 VT CUS	0829669	1
UCT-TMF 6 BU CUS	0829670	1
UCT-TMF 6 GN CUS	0829671	1

Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1

Terminal marking

UniCard terminal marking for a horizontal marker groove

- The UCT-TMF ... UniCard labeling range includes markers for products with vertical and horizontal marker grooves
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Can be printed with:

N



Thermal transfer for cards



BLUEMARK



42 markers for a terminal block width of 8.2 mm

Notes:

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	
Number of individual labels	42
Number of individual labels per strip	7
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
42
7
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for labeling terminal blocks with a horizontal marker groove	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 labeling terminal blocks with a horizontal marker groove, labeled acc. to customer specifications¹⁾	white	UCT-TMF 8 CUS	0829672	1
	red	UCT-TMF 8 RD CUS	0829673	1
	orange	UCT-TMF 8 OG CUS	0829674	1
	yellow	UCT-TMF 8 YE CUS	0829675	1
	violet	UCT-TMF 8 VT CUS	0829676	1
	blue	UCT-TMF 8 BU CUS	0829677	1
	green	UCT-TMF 8 GN CUS	0829678	1

Accessories

Magazine , for THERMOMARK CARD, for accommodating: UCT-TMF ...			
	THERMOMARK CARD-UCT-MAG2	5146563	1

N



36 markers for a terminal block width of 10.2 mm

N



30 markers for a terminal block width of 12 mm

N



24 markers for a terminal block width of 16 mm

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
36
6
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TMF 10	0829204	10
UCT-TMF 10 RD	0829205	10
UCT-TMF 10 OG	0829206	10
UCT-TMF 10 YE	0829207	10
UCT-TMF 10 VT	0829208	10
UCT-TMF 10 BU	0829209	10
UCT-TMF 10 GN	0829210	10
UCT-TMF 10 CUS	0829679	1
UCT-TMF 10 RD CUS	0829680	1
UCT-TMF 10 OG CUS	0829681	1
UCT-TMF 10 YE CUS	0829682	1
UCT-TMF 10 VT CUS	0829683	1
UCT-TMF 10 BU CUS	0829684	1
UCT-TMF 10 GN CUS	0829685	1

Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
30
5
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TMF 12	0829214	10
UCT-TMF 12 RD	0829212	10
UCT-TMF 12 OG	0829213	10
UCT-TMF 12 YE	0829211	10
UCT-TMF 12 VT	0829215	10
UCT-TMF 12 BU	0829216	10
UCT-TMF 12 GN	0829217	10
UCT-TMF 12 CUS	0829686	1
UCT-TMF 12 RD CUS	0829687	1
UCT-TMF 12 OG CUS	0829688	1
UCT-TMF 12 YE CUS	0829689	1
UCT-TMF 12 VT CUS	0829690	1
UCT-TMF 12 BU CUS	0829691	1
UCT-TMF 12 GN CUS	0829692	1

Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1

Technical data
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
24
4
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT-TMF 16	0829218	10
UCT-TMF 16 RD	0829219	10
UCT-TMF 16 OG	0829220	10
UCT-TMF 16 YE	0829221	10
UCT-TMF 16 VT	0829222	10
UCT-TMF 16 BU	0829223	10
UCT-TMF 16 GN	0829224	10
UCT-TMF 16 CUS	0829693	1
UCT-TMF 16 RD CUS	0829694	1
UCT-TMF 16 OG CUS	0829695	1
UCT-TMF 16 YE CUS	0829696	1
UCT-TMF 16 VT CUS	0829697	1
UCT-TMF 16 BU CUS	0829698	1
UCT-TMF 16 GN CUS	0829699	1

Accessories		
THERMOMARK CARD-UCT-MAG2	5146563	1

Terminal marking

UniSheet terminal marking for a universal marker groove

Can be printed with:

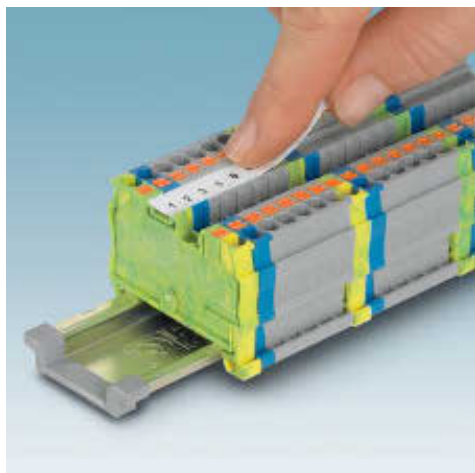
N



Thermal transfer for cards



13 strips with a strip width of 104 mm



- 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
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	
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 labeling terminal blocks with a universal marker groove	white
UniSheet, for labeling push-in terminal blocks with a special center groove, labeled acc. to customer specifications¹⁾	white

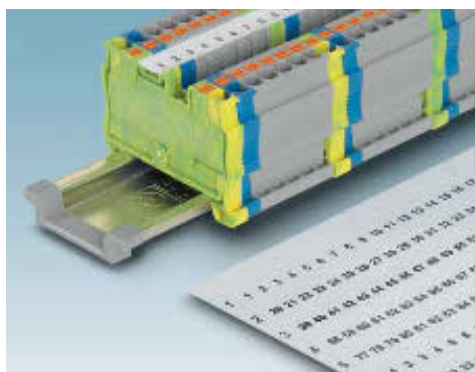
Ordering data

Type	Order No.	Pcs. / Pkt.
US-TM 100	0829255	10
US-TM 100 CUS	0829948	1

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

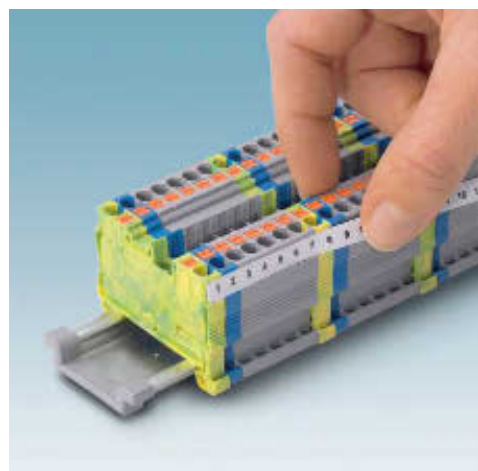
Accessories

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



UniSheet terminal marking for a horizontal marker groove

Can be printed with:



Thermal transfer for cards



20 strips with a strip width of 104 mm

- The US-TMF 100 UniSheet markers are suitable for products with a horizontal 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
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:
 An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.
 1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[-30 ... 80] [°C]
Wipe resistance	
Components	

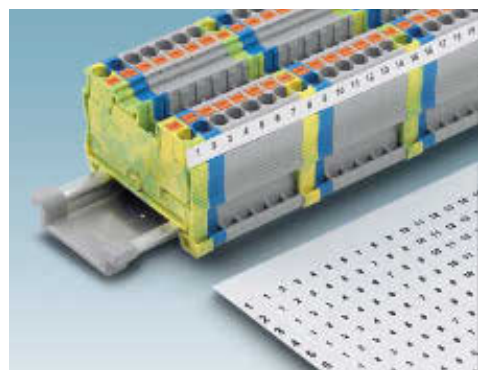
Technical data	
THERMOMARK CARD	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet, for labeling terminal blocks with a vertical, horizontal or universal marker groove	white
UniSheet, for labeling terminal blocks with a horizontal marker groove, labeled acc. to customer specifications¹⁾	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-TMF 100	0829260	10
US-TMF 100 CUS	0829949	1

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

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



MARKING system

Terminal marking

Marker strips for terminal marking, for vertical and horizontal marker grooves



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

Notes:

An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.

¹⁾ For ordering example, see page 243.

Can be printed with:



Thermal transfer for rolls



Markers for a terminal block width of 4.2 mm

General data

Can be printed with:

Number of individual labels

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, THERMOMARK S1.1

24000

24

Polyester

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Silicone and halogen-free

Ordering data

Description

Color

Markers, perforated, unprinted, for all terminal blocks with a vertical, horizontal or universal marker groove, 1 roll = 1000 strips, strip height: 6.4 mm, incl. TMT TOOL

white

red

blue

yellow

green

orange

Type

Order No.

Pcs. / Pkt.

TMT 4 R

0816375

1

TMT 4 R RD

0816362

1

TMT 4 R BU

0816333

1

TMT 4 R YE

0816388

1

TMT 4 R GN

0816346

1

TMT 4 R OG

0816359

1

Markers, perforated, labeled acc. to customer specifications, for all terminal blocks with a vertical, horizontal or universal marker groove¹⁾

white

red

blue

yellow

green

orange

TMT 4 R CUS

0824476

1

TMT 4 R RD CUS

0824480

1

TMT 4 R BU CUS

0824477

1

TMT 4 R YE CUS

0824481

1

TMT 4 R GN CUS

0824478

1

TMT 4 R OG CUS

0824479

1

Accessories

Locking tool for snapping in TMT... materials

orange

TMT TOOL

0816650

1





Markers for a terminal block width of 5.2 mm



Markers for a terminal block width of 6.2 mm



Markers for a terminal block width of 8.2 mm

Technical data		
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1		
19000		
19		
Polyester		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Silicone and halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
TMT 5 R	0816430	1
TMT 5 R RD	0816427	1
TMT 5 R BU	0816391	1
TMT 5 R YE	0816443	1
TMT 5 R GN	0816401	1
TMT 5 R OG	0816414	1
TMT 5 R CUS	0824482	1
TMT 5 R RD CUS	0824486	1
TMT 5 R BU CUS	0824483	1
TMT 5 R YE CUS	0824487	1
TMT 5 R GN CUS	0824484	1
TMT 5 R OG CUS	0824485	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMT TOOL	0816650	1

Technical data		
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1		
16000		
16		
Polyester		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Silicone and halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
TMT 6 R	0816498	1
TMT 6 R RD	0816485	1
TMT 6 R BU	0816456	1
TMT 6 R YE	0816508	1
TMT 6 R GN	0816469	1
TMT 6 R OG	0816472	1
TMT 6 R CUS	0824488	1
TMT 6 R RD CUS	0824492	1
TMT 6 R BU CUS	0824489	1
TMT 6 R YE CUS	0824493	1
TMT 6 R GN CUS	0824490	1
TMT 6 R OG CUS	0824491	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMT TOOL	0816650	1

Technical data		
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1		
12000		
12		
Polyester		
-40 ... 120		
DIN EN 61010-1 (VDE 0411-1)		
Silicone and halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.
TMT 8 R	0816553	1
TMT 8 R RD	0816540	1
TMT 8 R BU	0816511	1
TMT 8 R YE	0816566	1
TMT 8 R GN	0816524	1
TMT 8 R OG	0816537	1
TMT 8 R CUS	0824494	1
TMT 8 R RD CUS	0824498	1
TMT 8 R BU CUS	0824495	1
TMT 8 R YE CUS	0824499	1
TMT 8 R GN CUS	0824496	1
TMT 8 R OG CUS	0824497	1

Accessories		
Type	Order No.	Pcs. / Pkt.
TMT TOOL	0816650	1

Terminal marking

Marker strips for terminal marking, for vertical and horizontal marker grooves

- The TMT labeling range includes markers for all products with vertical and horizontal marker grooves
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.



Markers for a terminal block width of 10.2 mm



Markers with a strip width of 101.5 mm

General data

Can be printed with:

Number of individual labels
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, THERMOMARK S1.1
10000
10
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1
1000
1
Polyester
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description

Color

Markers, perforated, unprinted, for all terminal blocks with a vertical, horizontal or universal marker groove, 1 roll = 1000 strips, strip height: 6.4 mm, incl. TMT TOOL

white

Markers, perforated, labeled acc. to customer specifications, for all terminal blocks with a vertical, horizontal or universal marker groove¹⁾

white

Markers, for terminal blocks, unperforated, unprinted, strip width: 101.5 mm, 1 roll = 1000 strips, incl. TMT TOOL

white

red

blue

yellow

green

orange

Markers, for terminal blocks, unperforated, labeled acc. to customer specifications, strip width: 101.5 mm¹⁾

white

red

blue

yellow

green

orange

Type

Order No.

Pcs. / Pkt.

TMT 10 R

0816210

1

TMT 10 R CUS

0824500

1

Type

Order No.

Pcs. / Pkt.

TMT 100 R

0816605

1

TMT 100 R RD

0816595

1

TMT 100 R BU

0816223

1

TMT 100 R YE

0816618

1

TMT 100 R GN

0816579

1

TMT 100 R OG

0816582

1

TMT 100 R CUS

0824501

1

TMT 100 R RD CUS

0824505

1

TMT 100 R BU CUS

0824502

1

TMT 100 R YE CUS

0824506

1

TMT 100 R GN CUS

0824503

1

TMT 100 R OG CUS

0824504

1

Accessories

Locking tool for snapping in TMT... materials

orange

TMT TOOL

0816650

1

Accessories

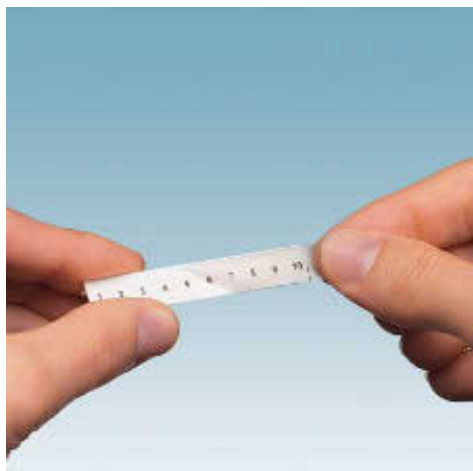
TMT TOOL

0816650

1

Self-adhesive marker strips

Can be printed with:



Thermal transfer for rolls



Markers with a strip width of 101.5 mm / continuous

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

Notes:
 An overview of the terminal blocks available from Phoenix Contact that can be marked can be found starting on page 92.
 1) For ordering example, see page 243.

General data	
Can be printed with:	
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, THERMOMARK S1.1	
1	
Polyester foil	
-20 ... 70	
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
Labeled according to customer specifications¹⁾	
Marking foil for zack marker strip, unprinted , 1 roll = 40 m continuous, strip height: 9.5 mm	transparent
Labeled according to customer specifications¹⁾	
Marking foil for zack marker strip, horizontal, unprinted , perforated, 1 roll = 1000 strips, strip length: 101 mm, strip height: 4.2 mm	transparent
Labeled according to customer specifications¹⁾	
Marking foil for zack marker strip, horizontal, unprinted , 1 roll = 40 m continuous, strip height: 4.2 mm	transparent
Labeled according to customer specifications¹⁾	

Ordering data		
Type	Order No.	Pcs. / Pkt.
TML (101X9,5)R TR	0816647	1
TML (101X9,5)R TR CUS	0824473	1
TML (EX9,5)R TR	0816634	1
TML (EX9,5)R TR CUS	0824475	1
TML (101X4,2)R TR	0816621	1
TML (101X4,2)R TR CUS	0824472	1
TML (EX4,2)R TR	0816715	1
TML (EX4,2)R TR CUS	0824474	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 labeled using THERMOMARK printers
- The markers that are supplied as cards can be easily labeled using standard laser printers
- Ideal for labeling COMBICON connectors
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.



Markers labeled with 2.54 mm pitch

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
Material	Polyester
Temperature range	-40 ... 100
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

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

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 14 identical sets of ten labeled, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, enough to label 140 terminal blocks (SK 2,54...-SK 3,81... max. 2 characters per terminal)

white

Marker card, self-adhesive, 10-section marker strips, labeled acc. to customer specifications, enough to label 140 terminal blocks, pitch (mm)/max. characters per position: 2.54/2; 3.5/2; 3.81/2; 5.08/3¹⁾

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 50 stamped marker strips, strip length of 185 mm, can be labeled with plotter, laser printer or manually with M-PEN or X-PEN

white

Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... or THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER or THERMOMARK ROLL-CUTTER cutters, 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 2,8 REEL P2,54 WH CUS	0825120	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1





Markers labeled with 3.5 mm pitch



Markers labeled with 3.81 mm pitch



Markers labeled with 5.08 mm pitch

Technical data
Polyester -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Technical data
Polyester -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Technical data
Polyester -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 3,5/2,8:FORTL.ZAHLEN	0804073	10
SK 2,8 REEL P3,5 WH CUS	0825121	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 3,81/2,8:FORTL.ZAHLEN	0804109	10
SK 2,8 REEL P3,81 WH CUS	0825122	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 5,08/2,8:FORTL.ZAHLEN	0804280	10
SK 2,8 REEL P5,08 WH CUS	0825123	1
SK U/2,8 WH:UNBEDRUCKT	0803883	10
SK 2,8 WH:REEL	0805205	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
- Labeling service: Phoenix Contact can custom-label SK markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.



Markers labeled with 5 mm pitch



Markers labeled with 5.08 mm pitch

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data		
Material	Polyester	
Temperature range	-40 ... 100	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	

Technical data		
Material	Polyester	
Temperature range	-40 ... 100	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	

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

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 12 identical sets of ten labeled, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, enough to label 120 terminal blocks

white

Marker card, self-adhesive, 10-section marker strips, labeled acc. to customer specifications, enough to label 120 terminal blocks, pitch (mm)/max. characters per position: 5/3; 5.08/3; 6.2/4; 7.5/5; 7.62/5¹⁾

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 stamped marker strips, strip length of 185 mm, can be labeled with plotter, laser printer or manually with M-PEN or X-PEN

white

Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... or THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER or THERMOMARK ROLL-CUTTER cutters, pitch as desired, strip length of up to 1000 mm, 12 strips, strip height of 3.8 mm, 1 roll = 90 m

white

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 5/3,8:FORTL.ZAHLEN	0804183	10
SK 3,8 REEL P5 WH CUS	0825124	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

Ordering data

Type	Order No.	Pcs. / Pkt.
SK 5,08/3,8:FORTL.ZAHLEN	0804293	10
SK 3,8 REEL P5,08 WH CUS	0825125	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1



Markers labeled with 6.2 mm pitch



Markers labeled with 7.5 mm pitch



Markers labeled with 7.62 mm pitch

Technical data
Polyester -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Technical data
Polyester -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Technical data
Polyester -40 ... 100 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 6,2/3,8:FORTL.ZAHLEN	0804374	10
SK 3,8 REEL P6,2 WH CUS	0825126	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 7,5/3,8:FORTL.ZAHLEN	0804455	10
SK 3,8 REEL P7,5 WH CUS	0825127	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
SK 3,8 WH:REEL	0805218	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 7,62/3,8:FORTL.ZAHLEN	0804549	10
SK 3,8 REEL P7,62 WH CUS	0825128	1
SK U/3,8 WH:UNBEDRUCKT	0803906	10
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
- Labeling service: Phoenix Contact can custom-label all TMT markers in accordance with your requirements



Markers labeled with 7.5 mm pitch



Markers labeled with 7.62 mm pitch

Notes:
 1) For ordering example, see page 243.

General data	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data		
Material	Polyester	
Temperature range	-40 ... 140	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	

Technical data		
Material	Polyester	
Temperature range	-40 ... 140	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	

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

Marker card, printed horizontally, self-adhesive, 10-section marker strips, 10 identical sets of ten labeled, e.g., 1 - 10, 11 - 20, etc. up to 91 - 100, enough to label 100 terminal blocks

white

Marker card, self-adhesive, 10-section marker strips, labeled acc. to customer specifications, enough to label 100 terminal blocks, 2-line printing supported, pitch (mm)/max. characters per position and line: 7.5/5; 7.62/5; 9.5/6; 10/7; 12.5/8¹⁾

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 stamped marker strips, strip length of 185 mm, can be labeled with plotter, laser printer or manually with M-PEN or X-PEN

white

Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... and THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER and THERMOMARK ROLL-CUTTER cutters, pitch as desired, strip length of up to 1000 mm, 10 strips, strip height of 5.0 mm, 1 roll = 90 m

white

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 7,5/5:FORTL.ZAHLEN	0804468	10
SK 5,0 REEL P7,5 WH CUS	0825131	1
SK U/5,0 WH:UNBEDRUCKT	0803922	10
SK 5,0 WH:REEL	0805221	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
SK 7,62/5:FORTL.ZAHLEN	0804552	10
SK 5,0 REEL P7,62 WH CUS	0825132	1
SK U/5,0 WH:UNBEDRUCKT	0803922	10
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

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

Polyester
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Technical data

Polyester
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

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

Ordering data

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

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

Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... or THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER or THERMOMARK ROLL-CUTTER cutters, 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
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Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... or THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER or THERMOMARK ROLL-CUTTER cutters, 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
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Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... and THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER and THERMOMARK ROLL-CUTTER cutters, 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
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Self-adhesive marker strips, unprinted, continuous, supplied on rolls, for individual labeling with THERMOMARK X1... and THERMOMARK ROLL thermal transfer printers, can be separated using optional THERMOMARK X1-CUTTER and THERMOMARK ROLL-CUTTER cutters, pitch as desired, strip length of up to 1000 mm, 7 strips, strip height of 10.0 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 stamped marker strips, strip length of 185 mm, can be labeled with plotter, laser printer or manually with M-PEN or X-PEN

white

SK U/2,8 WH:UNBEDRUCKT	0803883	10
------------------------	---------	----

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 40 stamped marker strips, strip length of 185 mm, can be labeled with plotter, laser printer or manually with M-PEN or X-PEN

white

SK U/3,8 WH:UNBEDRUCKT	0803906	10
------------------------	---------	----

Marker card, unprinted, DIN A4 format, pitch as desired, self-adhesive, with 35 stamped marker strips, strip length of 185 mm, can be labeled with plotter, laser printer or manually with M-PEN or X-PEN

white

SK U/5,0 WH:UNBEDRUCKT	0803922	10
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MARKING system

Terminal marking

Terminal marking for Phoenix Contact



Large terminal markers for central and side labeling

UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16
see page 50 onwards						
ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16
see page 58 onwards						
UCT-TM 4	UCT-TM 5	UCT-TM 6	UCT-TM 8	UCT-TM 10	UCT-TM 12	UCT-TM 16
see page 72 onwards						
TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R
see page 82 onwards						

	Pitch	4	5	6	8	10	12	16
--	-------	---	---	---	---	----	----	----

Screw terminal blocks

UT 2,5..., UTTB 2,5..., UTN 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..., 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...	6							
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6..., URTK..., UGSK..., URDK...	8							
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10...	10							
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12							
U(I)K 35..., U(I)SLKG 35, UIKN 35...	15							
UKH..., USLKG 50/95	> 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							
TMC..., TMCP SOCKET...	12							
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..., MBK 2,5..., MBK 3..., MSLKG 2,5, MBKKB 2,5...	5							
MBK 5..., MSLKG 5	6							
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 markers for central and side labeling

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 54 onwards							81
ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
see page 66 onwards							
UCT-TMF 4	UCT-TMF 5	UCT-TMF 6	UCT-TMF 8	UCT-TMF 10	UCT-TMF 12	UCT-TMF 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 82 onwards							

	Pitch	4	5	6	8	10	12	16	
Screw terminal blocks									
UT 2,5..., UTTB 2,5..., UTN 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..., 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...	6								
UK 6 N..., USLKG 6 N, UKN 6..., PIK 6...,URTK..., UGSK..., URDK...	8								
UK 10 N..., USLKG 10 N, UKKB 10..., UKN 10...	10								
U(I)K 16..., U(I)SLKG 16, UIKN 16...	12								
U(I)K 35..., U(I)SLKG 35, UIKN 35...	15								
UKH..., USLKG 50/95	> 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								
TMC..., TMCP SOCKET...	12								
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..., MBK 2,5..., MBK 3..., MSLKG 2,5, MBKKB 2,5...	5								
MBK 5..., MSLKG 5	6								
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 markers for central labeling

	UC-TM 4	UC-TM 5	UC-TM 6		UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	
	see page 50 onwards								
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 7,62	ZB 8	ZB 10	ZB 12	ZB 16	
	see page 58 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 72 onwards								
	TMT 4 R	TMT 5 R	TMT 6 R		TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 82 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	Light Green								
ST 1,5...	4	Light Green	Light Green							
ST 2,5... (except ST 2,5-3L)	5	Light Green	Light Green	Light Green						
ST 4..., STTB 4...	6	Light Green	Light Green	Light Green	Light Green					
ST 6..., STME(D) 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green			
ST 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	
ST 16...	12	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
ST 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
ST 4-HESI (6,3 x 32), ST 4-FSI...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green			
STU 2,5...	5	Light Green	Light Green	Light Green						
STU 4..., STTBU 4...	6	Light Green	Light Green	Light Green	Light Green					
STU 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green			
STU 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
STS 2,5..., STTBS 2,5...	5	Light Green	Light Green	Light Green						
STS 4..., STTBS 4...	6	Light Green	Light Green	Light Green	Light Green					
STS 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green			
STI 2,5..., STN 2,5...	5	Light Green	Light Green	Light Green						
STI 4..., STN 4...	6	Light Green	Light Green	Light Green	Light Green					
STI 10..., STN 10...	10	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green		
STI 16..., STN 16...	12	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
STN 35...	16	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
SRTK 6..., SGSK 6..., SRDK 6...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green			
ZRV...	7.62	Light Green	Light Green	Light Green	Light Green					
ZRTK..., ZGSK..., ZRDK...	8	Light Green	Light Green	Light Green	Light Green	Light Green	Light 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 markers for central and side labeling

	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 54 onwards							81
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
	see page 66 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 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 82 onwards							
Pitch	3.5	4	5	6	8	10	12	16

Spring-cage terminal blocks

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..., STTB 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								
MZFK(K) 1,5..., MZB 1,5...	5								
MZDB 1,5...	10								
MSB(V) 2,5.../ MSDB(V) 2,5...	5/10								

MARKING system

Terminal marking

Terminal marking for Phoenix Contact



Large terminal markers for central labeling

	UC-TM 4	UC-TM 5	UC-TM 6	UC-TM 8	UC-TM 10	UC-TM 12	UC-TM 16	US-TM 100
								80
	see page 50 onwards							
ZB 3,5	ZB 4	ZB 5	ZB 6	ZB 8	ZB 10	ZB 12	ZB 16	
	see page 58 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 72 onwards							
	TMT 4 R	TMT 5 R	TMT 6 R	TMT 8 R	TMT 10 R	TMT 100 R	TMT 100 R	
	see page 82 onwards							
Pitch	3.5	4	5	6	8	10	12	16

Push-in connection terminal blocks

PT 1,5/S..., PTTB 1,5/S...	3.5								
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5...	5								
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4...	6								
PT 6..., PTME 6..., PTI 6..., PTN 6...	8								

Fast connection terminal blocks

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

Bolt connection terminal blocks

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



Plug-in terminal markers for terminal blocks without marker groove

	UC-TMN 5,2	UC-TMN 7,5	UC-TMN 10
	see page 57		
Pitch	5.2	7.5	10

Miniature terminal blocks, molded feed-through terminal blocks

MBK...	5/10			
MSLKG ...	7.5			
VDFK ...	10			

 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 markers for central and side labeling

	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 54 onwards							81
ZBF 3,5	ZBF 4	ZBF 5	ZBF 6	ZBF 8	ZBF 10	ZBF 12	ZBF 16	
	see page 66 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 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 82 onwards							

Pitch	3.5	4	5	6	8	10	12	16
-------	-----	---	---	---	---	----	----	----

Push-in connection terminal blocks

PT 1,5/S..., PTTB 1,5/S...	3.5								
PT 2,5..., PTTB 2,5..., PTTBS 2,5..., PTI 2,5..., PTN 2,5..., PTS 2,5...	5								
PT 4..., PTME(D) 4..., PTTB 4..., PTI 4..., PTN 4...	6								
PT 6..., PTME 6..., PTI 6..., PTN 6...	8								

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

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 connectors and couplings

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

Terminal marking

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



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

Notes:
An overview of terminal blocks that can be marked can be found starting on page 116.
1) For ordering example, see page 243.

Can be printed with:



BLUEMARK



Plotter



96 markers for a terminal block width of 5 mm

General data	
Can be printed with:	BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
Number of individual labels	96
Number of individual labels per strip	12
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data	
Can be printed with:	BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
Number of individual labels	96
Number of individual labels per strip	12
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Description	Color
UniCard, for labeling terminal blocks from other manufacturers	white
	red
	orange
	yellow
	blue
	green
	white
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾	white
	red
	orange
	yellow
	blue
	green
With an offset foot	white

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
UC1-TM 5 CUS	0824507	1
UC1-TM 5 RD CUS	0828318	1
UC1-TM 5 OG CUS	0828319	1
UC1-TM 5 YE CUS	0828320	1
UC1-TM 5 BU CUS	0828321	1
UC1-TM 5 GN CUS	0828322	1

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

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



96 markers for a terminal block width of 5 mm, with an offset foot



80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 96 12 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data									
<table border="1"> <thead> <tr> <th>Type</th> <th>Order No.</th> <th>Pcs. / Pkt.</th> </tr> </thead> <tbody> <tr> <td>UC1U-TM 5</td> <td>0821302</td> <td>10</td> </tr> <tr> <td>UC1U-TM 5 CUS</td> <td>0824521</td> <td>1</td> </tr> </tbody> </table>	Type	Order No.	Pcs. / Pkt.	UC1U-TM 5	0821302	10	UC1U-TM 5 CUS	0824521	1
Type	Order No.	Pcs. / Pkt.							
UC1U-TM 5	0821302	10							
UC1U-TM 5 CUS	0824521	1							

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

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 80 10 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

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

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 64 8 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

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

Terminal marking

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



Can be printed with:



BLUEMARK



Plotter



120 markers for a terminal block width of 4 mm

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

Notes:

An overview of terminal blocks that can be marked can be found starting on page 116.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
Number of individual labels	120
Number of individual labels per strip	15
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

Can be printed with:	BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
Number of individual labels	120
Number of individual labels per strip	15
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks from other manufacturers				
	white	UC1-TMF 4	0821360	10
	red	UC1-TMF 4 RD	0828200	10
	orange	UC1-TMF 4 OG	0828201	10
	yellow	UC1-TMF 4 YE	0828202	10
	blue	UC1-TMF 4 BU	0828203	10
	green	UC1-TMF 4 GN	0828204	10
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾				
	white	UC1-TMF 4 CUS	0824513	1
	red	UC1-TMF 4 RD CUS	0828333	1
	orange	UC1-TMF 4 OG CUS	0828334	1
	yellow	UC1-TMF 4 YE CUS	0828335	1
	blue	UC1-TMF 4 BU CUS	0828336	1
	green	UC1-TMF 4 GN CUS	0828337	1

Accessories

Magazine, for CMS-P1-PLOTTER				
		P1 UC-MAG 4	5146105	1



96 markers for a terminal block width of 5 mm



80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
96
12
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC1-TMF 5 CUS	0824515	1
UC1-TMF 5 RD CUS	0828338	1
UC1-TMF 5 OG CUS	0828339	1
UC1-TMF 5 YE CUS	0828340	1
UC1-TMF 5 BU CUS	0828341	1
UC1-TMF 5 GN CUS	0828342	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 4	5146105	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
80
10
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC1-TMF 6 CUS	0824517	1
UC1-TMF 6 RD CUS	0828343	1
UC1-TMF 6 OG CUS	0828344	1
UC1-TMF 6 YE CUS	0828345	1
UC1-TMF 6 BU CUS	0828346	1
UC1-TMF 6 GN CUS	0828347	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 4	5146105	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
64
8
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC1-TMF 8 CUS	0824519	1
UC1-TMF 8 RD CUS	0828348	1
UC1-TMF 8 OG CUS	0828349	1
UC1-TMF 8 YE CUS	0828350	1
UC1-TMF 8 BU CUS	0828351	1
UC1-TMF 8 GN CUS	0828352	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 4	5146105	1

Terminal marking

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

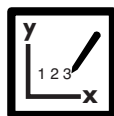


- The UC2-TM ... UniCard labeling range includes markers for Wago terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers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

Can be printed with:



BLUEMARK



Plotter



120 markers for a terminal block width of 4 mm

General data

Can be printed with:	
Number of individual labels	120
Number of individual labels per strip	15
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
120
15
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Description	Color
UniCard, for labeling terminal blocks from other manufacturers	white
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾	white white white white

Ordering data

Type	Order No.	Pcs. / Pkt.
UC2-TM 4	0821713	10
UC2-TM 4 CUS	0824533	1

Accessories

P1 UC-MAG 5	5146118	1
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Notes:

An overview of terminal blocks that can be marked can be found starting on page 116.

¹⁾ For ordering example, see page 243.

Magazine, for CMS-P1-PLOTTER



96 markers for a terminal block width of 5 mm



80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 96 12 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2-TM 5	0821690	10
UC2-TM 5 CUS	0824535	1

Accessories		
P1 UC-MAG 5	5146118	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 80 10 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2-TM 6	0821674	10
UC2-TM 6 CUS	0824537	1

Accessories		
P1 UC-MAG 5	5146118	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 64 8 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2-TM 8	0821755	10
UC2-TM 8 CUS	0824539	1

Accessories		
P1 UC-MAG 5	5146118	1

Terminal marking

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



Can be printed with:



BLUEMARK



Plotter



120 markers for a terminal block width of 4 mm

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

General data

Can be printed with:	
Number of individual labels	120
Number of individual labels per strip	15
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Description	Color
UniCard, for labeling terminal blocks from other manufacturers	white
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾	white

Magazine, for CMS-P1-PLOTTER

Technical data

BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
120
15
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
UC2F-TM 4	0822178	10
UC2F-TM 4 CUS	0824525	1

Accessories

P1 UC-MAG 4	5146105	1
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Notes:

An overview of terminal blocks that can be marked can be found starting on page 116.

¹⁾ For ordering example, see page 243.



96 markers for a terminal block width of 5 mm



80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 96 12 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2F-TM 5	0822181	10
UC2F-TM 5 CUS	0824527	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 4	5146105	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 80 10 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2F-TM 6	0822194	10
UC2F-TM 6 CUS	0824529	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 4	5146105	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 64 8 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC2F-TM 8	0822204	10
UC2F-TM 8 CUS	0824531	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 4	5146105	1

Terminal marking

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



- The UC3-TM ... UniCard labeling range includes markers for Wieland and Le-grand terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:
An overview of terminal blocks that can be marked can be found starting on page 116.
1) For ordering example, see page 243.

Can be printed with:



BLUEMARK



Plotter



96 markers for a terminal block width of 5 mm

General data	
Can be printed with:	
Number of individual labels	
Number of individual labels per strip	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
UniCard, for labeling terminal blocks from other manufacturers	white
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾	white

Magazine, for CMS-P1-PLOTTER	

Technical data	
Can be printed with:	BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
Number of individual labels	96
Number of individual labels per strip	12
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC3-TM 5	0822369	10
UC3-TM 5 CUS	0826888	1

Accessories		
P1 UC-MAG 1	5146079	1



80 markers for a terminal block width of 6 mm



64 markers for a terminal block width of 8 mm

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 80 10 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC3-TM 6	0822385	10
UC3-TM 6 CUS	0826889	1

Accessories		
P1 UC-MAG 1	5146079	1

Technical data
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER 64 8 PA V2 -40 ... 120 DIN EN 61010-1 (VDE 0411-1) Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC3-TM 8	0822408	10
UC3-TM 8 CUS	0826890	1

Accessories		
P1 UC-MAG 1	5146079	1

Terminal marking

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

- The UCT1-TM ... UniCard labeling range includes markers for Weidmüller, Conta-Clip, and Klemmsan terminal blocks
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



72 markers for a terminal block width of 5 mm

60 markers for a terminal block width of 6 mm

Notes:
An overview of terminal blocks that can be marked can be found starting on page 116.
1) For ordering example, see page 243.

		Technical data			Technical data		
General data		THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED			THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED		
Can be printed with:		72		60			
Number of individual labels		12		10			
Number of individual labels per strip		PC		PC			
Material		V0		V0			
Inflammability class according to UL 94		-40 ... 120		-40 ... 120			
Temperature range	[°C]	DIN EN 61010-1 (VDE 0411-1)		DIN EN 61010-1 (VDE 0411-1)			
Wipe resistance		Silicone and halogen-free		Silicone and halogen-free			
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks from other manufacturers		UCT1-TM 5	0829482	10	UCT1-TM 6	0829483	10
	white	UCT1-TM 5 RD	0829226	10	UCT1-TM 6 RD	0829232	10
	red	UCT1-TM 5 OG	0829227	10	UCT1-TM 6 OG	0829233	10
	orange	UCT1-TM 5 YE	0829228	10	UCT1-TM 6 YE	0829234	10
	yellow	UCT1-TM 5 BU	0829229	10	UCT1-TM 6 BU	0829235	10
	blue	UCT1-TM 5 GN	0829230	10	UCT1-TM 6 GN	0829236	10
	green						
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾		UCT1-TM 5 CUS	0829700	1	UCT1-TM 6 CUS	0829706	1
	white	UCT1-TM 5 RD CUS	0829701	1	UCT1-TM 6 RD CUS	0829707	1
	red	UCT1-TM 5 OG CUS	0829702	1	UCT1-TM 6 OG CUS	0829708	1
	orange	UCT1-TM 5 YE CUS	0829703	1	UCT1-TM 6 YE CUS	0829709	1
	yellow	UCT1-TM 5 BU CUS	0829704	1	UCT1-TM 6 BU CUS	0829710	1
	blue	UCT1-TM 5 GN CUS	0829705	1	UCT1-TM 6 GN CUS	0829711	1
	green						
		Accessories			Accessories		
Magazine, for THERMOMARK CARD, for accommodating: UCT-TM ..., UCT1-TM ..., UCT5-TM ...		THERMOMARK CARD-UCT-MAG1	5146480	1	THERMOMARK CARD-UCT-MAG1	5146480	1

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

- The UCT1-TMF ... UniCard labeling range includes markers for Weidmüller, Wago, ABB (entrelec), Conta-Clip, and Klemsan terminal blocks
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

N

N



72 markers for a terminal block width of 5 mm



60 markers for a terminal block width of 6 mm

Notes:
An overview of terminal blocks that can be marked can be found starting on page 116.
1) For ordering example, see page 243.

		Technical data			Technical data		
General data		THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED			THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED		
Can be printed with:		72			60		
Number of individual labels		12			10		
Number of individual labels per strip		PC			PC		
Material		V0			V0		
Inflammability class according to UL 94		-40 ... 120			-40 ... 120		
Temperature range		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Silicone and halogen-free			Silicone and halogen-free		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks from other manufacturers							
	white	UCT1-TMF 5	0829237	10	UCT1-TMF 6	0829243	10
	red	UCT1-TMF 5 RD	0829238	10	UCT1-TMF 6 RD	0829244	10
	orange	UCT1-TMF 5 OG	0829239	10	UCT1-TMF 6 OG	0829245	10
	yellow	UCT1-TMF 5 YE	0829240	10	UCT1-TMF 6 YE	0829246	10
	blue	UCT1-TMF 5 BU	0829241	10	UCT1-TMF 6 BU	0829247	10
	green	UCT1-TMF 5 GN	0829242	10	UCT1-TMF 6 GN	0829248	10
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications¹⁾							
	white	UCT1-TMF 5 CUS	0829718	1	UCT1-TMF 6 CUS	0829724	1
	red	UCT1-TMF 5 RD CUS	0829719	1	UCT1-TMF 6 RD CUS	0829725	1
	orange	UCT1-TMF 5 OG CUS	0829720	1	UCT1-TMF 6 OG CUS	0829726	1
	yellow	UCT1-TMF 5 YE CUS	0829721	1	UCT1-TMF 6 YE CUS	0829727	1
	blue	UCT1-TMF 5 BU CUS	0829722	1	UCT1-TMF 6 BU CUS	0829728	1
	green	UCT1-TMF 5 GN CUS	0829723	1	UCT1-TMF 6 GN CUS	0829729	1
		Accessories			Accessories		
Plastic magazine, for THERMOMARK CARD, for accommodating: UCT1-TMF...		THERMOMARK CARD-UCT-MAG4	5146614	1	THERMOMARK CARD-UCT-MAG4	5146614	1

Terminal marking

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



- The UCT2-TM 5/6 UniCard markers are suitable for Wago terminal blocks
- The markers, which are supplied in uniform sheets, can be printed onto quickly, easily, and precisely using the THERMOMARK CARD and BLUEMARK LED
- The multi-section marking strips are easy to fit and can be easily separated if required
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

An overview of terminal blocks that can be marked can be found starting on page 116.

¹⁾ For ordering example, see page 243.

Can be printed with:



Thermal transfer for cards



BLUEMARK



72 markers for a terminal block width of 5 to 6 mm

N

General data

Can be printed with:	
Number of individual labels	72
Number of individual labels per strip	12
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
72
12
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for labeling terminal blocks from other manufacturers				
	white	UCT2-TM 5/6	0829249	10
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾				
	white	UCT2-TM 5/6 CUS	0829250	1

Accessories

Plastic magazine, for THERMOMARK CARD, for accommodating: UCT2-TM ...				
		THERMOMARK CARD-UCT-MAG5	5146615	1

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

- The UCT3-TM ... UniCard labeling range includes markers for Wieland and Le-grand terminal blocks
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

N

N



72 markers for a terminal block width of 5 mm



60 markers for a terminal block width of 6 mm

Notes:
An overview of terminal blocks that can be marked can be found starting on page 116.
¹⁾ For ordering example, see page 243.

General data	
Can be printed with:	
Number of individual labels	72
Number of individual labels per strip	12
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data		
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED		
	72	
	12	
	PC	
	V0	
	-40 ... 120	
	DIN EN 61010-1 (VDE 0411-1)	
	Silicone and halogen-free	

Technical data		
THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED		
	60	
	10	
	PC	
	V0	
	-40 ... 120	
	DIN EN 61010-1 (VDE 0411-1)	
	Silicone and halogen-free	

Description	Color
UniCard, for labeling terminal blocks from other manufacturers	white
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT3-TM 5	0829251	10
UCT3-TM 5 CUS	0829955	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UCT3-TM 6	0829252	10
UCT3-TM 6 CUS	0829956	1

Magazine, for THERMOMARK CARD, for accommodating: UCT3-TM ...

Accessories		
THERMOMARK CARD-UCT-MAG6	5146616	1

Accessories		
THERMOMARK CARD-UCT-MAG6	5146616	1

Terminal marking

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



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

Notes:

An overview of terminal blocks that can be marked can be found starting on page 116.

¹⁾ For ordering example, see page 243.

Can be printed with:



Thermal transfer for cards



BLUEMARK



66 markers for a terminal block width of 5 mm

N

General data

Can be printed with:	
Number of individual labels	66
Number of individual labels per strip	11
Material	PC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Description	Color
UniCard, for labeling terminal blocks from other manufacturers	white
UniCard, for labeling terminal blocks from other manufacturers, labeled acc. to customer specifications ¹⁾	white

Magazine, for THERMOMARK CARD, for accommodating:
UCT-TM ..., UCT1-TM ..., UCT5-TM ...

Technical data

THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
66
11
PC
V0
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT5-TM 5	0828750	10
UCT5-TM 5 CUS	0829742	1

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
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N



54 markers for a terminal block width of 6 mm

Technical data

THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
 54
 9
 PC
 V0
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
UCT5-TM 6	0828752	10
UCT5-TM 6 CUS	0829743	1

Accessories

THERMOMARK CARD-UCT-MAG1	5146480	1
--------------------------	---------	---

Terminal marking

UniSheet marking for terminal blocks from other manufacturers

Can be printed with:

N



Thermal transfer for cards



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
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

An overview of terminal blocks that can be marked can be found starting on page 116.

General data

Can be printed with:	
Number of individual labels	12
Number of individual labels per strip	1
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 70 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Technical data

THERMOMARK CARD
12
1
PVC
V0
-30 ... 70
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Description	Color
UniSheet, for labeling terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, strip length of 104 mm	white
UniSheet, for labeling terminal blocks from other manufacturers with a Wago TopJob S terminal block groove, labeled acc. to customer specifications , strip length of 104 mm	white

Ordering data

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

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

Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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N



Labeled according to customer specifications

Technical data

-
12
1
PVC
V0
-30 ... 70
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Type	Order No.	Pcs. / Pkt.
US2-TM 100 CUS	0829950	1





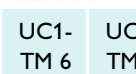

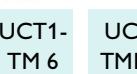


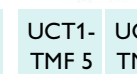
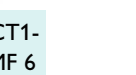
Accessories

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


















































































































MARKING system


Terminal marking


Terminal marking for Weidmüller







												
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

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												

MARKING system

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
UniCard, white		0821713	0821690	0821674	0821755	0829249	0821360	0821425	0821483	0821548	0829268
	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..., 285...	8	■	■	■	■						
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 ABB (entrelec)



		UC2F-TM 5	UC2F-TM 6	UC2F-TM 8	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6
UniCard, white		0822187	0822194	0822204	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	■	■	■			

MARKING system


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		5	6	8	5	6
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..., WKF 2,5...	5					■			■	
WKF 4..., WKF 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					■	■	■	■	

MARKING system

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



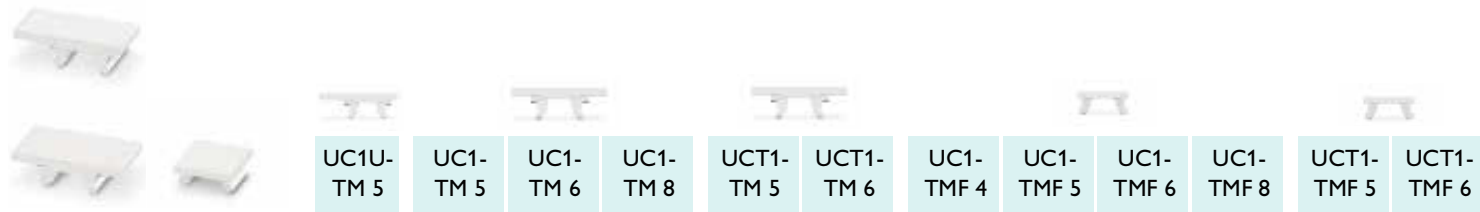
	UC1-TM 5	UC1-TM 6	UC1-TM 8	UCT1-TM 5	UCT1-TM 6	UC1-TMF 4	UC1-TMF 5	UC1-TMF 6	UC1-TMF 8	UCT1-TMF 5	UCT1-TMF 6
UniCard, white	0821784	0821247	0821739	0829482	0829483	0821360	0821425	0821483	0821548	0829237	0829243
Pitch	5	6	8	5	6	4	5	6	8	5	6

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										

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 6/10T-16/35T/ /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).../ MYPPK 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.../ YBK 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			

MARKING system

Terminal marking

Terminal marking for Cabur





		UCT5-TM 5	UCT5-TM 6
UniCard, white		0828750	0828752
	Pitch	5	6

		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	

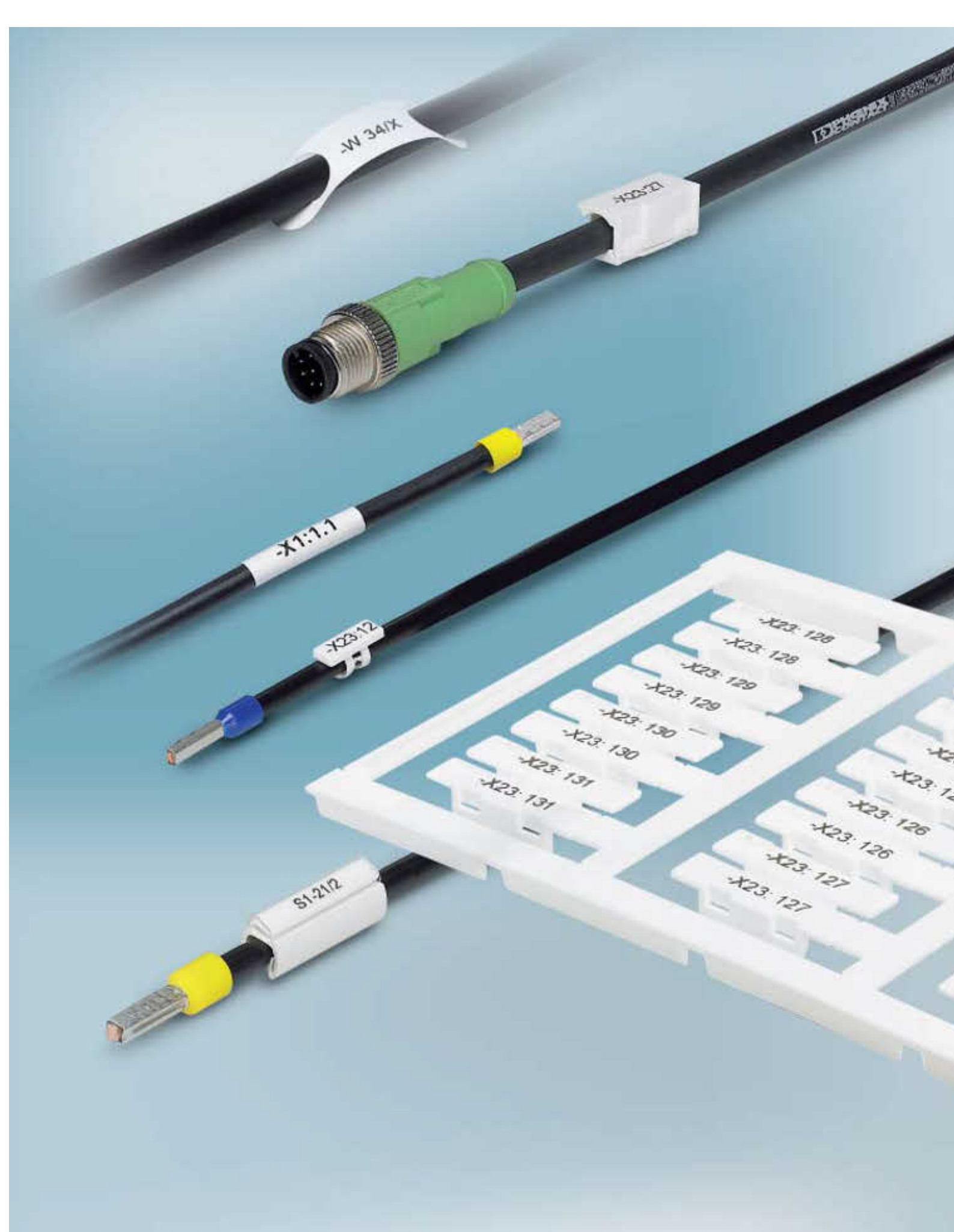
Screw connection terminal blocks		
DSFA.4, DSS.4	6	
EDM.2	5.5	
EDM.4	6.5	
EDM.6	8	
EDM.10	10	
EDM.16	12	
EDM.25	16	
EDM.35	18.5	
EDM.70	21	
FDP.2, FFS.4, FVS.4	6.5	
FPC.10, FPL.10	12	
MPFA.4	6	
MPS.2/SV, MPS.2/SW, MPS.2/SWP	5.5	
MPS.4	6	
PDF.2	6.5	
RN.2	5	
RP.4	6	
TR.2	5	
TR.4	7.3	
SCB.4	6.5	
SCB.6,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

 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



		UCT5-TM 5	UCT5-TM 6
UniCard, white		0828750	0828752
	Pitch	5	6
Spring-cage connection terminal blocks			
HCD.1	5.08		
Push-in connection terminal blocks			
NCS	6.2		
NCV	6.2		



MARKING system – Conductor and cable marking

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 marking systems provide the ideal marking option for any application. All you need to do is select an assembly method. The markers can be slid on, clipped or glued into place, or attached with cable binders.

Product range overview

Conductor and cable marking	130
Complete overview of conductor and cable marking	132
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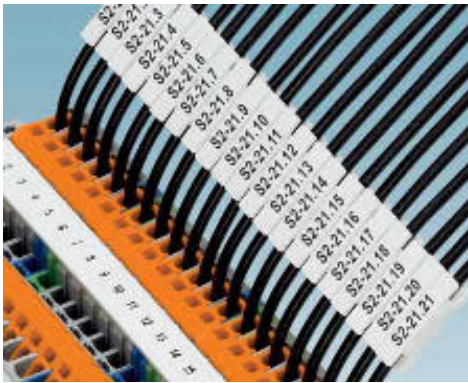
Far from being a luxury, standard-compliant and permanent conductor markings are actually a mark of quality demanded by customers in respect of modern high-quality capital goods. Phoenix Contact conductor and cable marking systems provide ideal marking options for any user, whether they intend to thread, slide, clip or stick the markers on or attach them with cable binders.

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

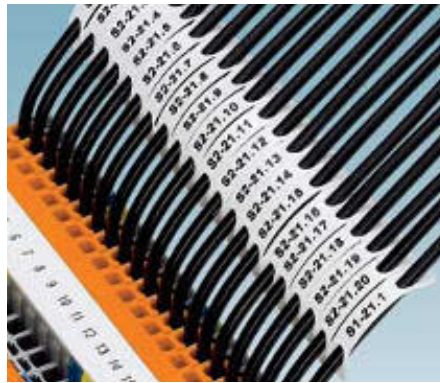
- BLUEMARK LED, high-speed printer with UV technology for labeling UniCard formats
- THERMOMARK CARD, thermal transfer printer for labeling UniCard and UniSheet formats
- THERMOMARK ROLL, thermal transfer printer for labeling material off the roll and continuous media
- THERMOMARK X1.2, thermal transfer printer for large quantities
- THERMOMARK W2, thermal transfer printer for double-sided labeling and perforation of continuous shrink sleeves
- CMS-P1-PLOTTER
- Commercially available desktop laser printers

The CLIP PROJECT software is available for easy and efficient production of markings. It generates the marking data directly from the circuit diagram and automatically sends the data to the relevant printers for further processing.

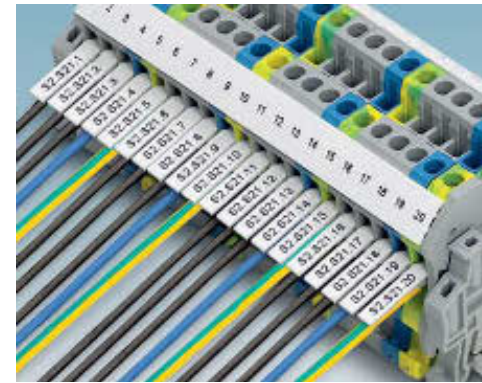
If no printers are available or your production facility is affected by capacity bottlenecks, you also have the option of using our labeling service. We will be happy to handle your printing orders, including any engraving or laser marking of high-grade steel cable markers.



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



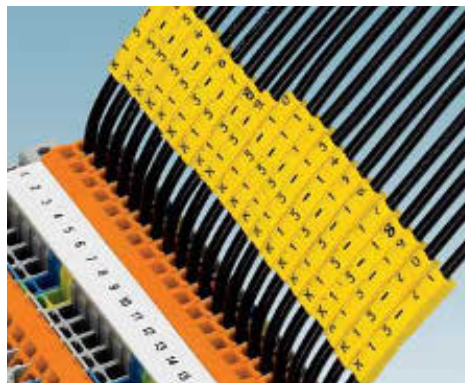
Individual printed markers are threaded onto conductors or attached by means of cable binders. Various materials can be supplied as cards or on rolls.



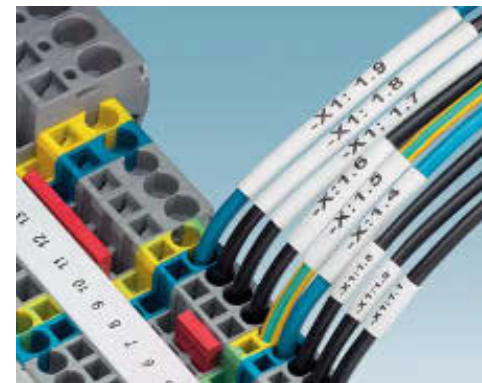
The ferrules feature an insulating collar that supports labeling and are labeled prior to crimping. This combines two operations in one.



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



Pre-labeled marking collars can be used for easy and reliable conductor labeling. Their special shape prevents the individual markers from twisting together.



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 labeling field and a transparent foil that protects the labeling against abrasion and dirt. The labels are available in various shapes and sizes.



Plastic cable markers are suitable for both bundling and labeling conductors and cables. A screw cap protects the labeling against dirt and can be replaced at any time.

MARKING system

Conductor and cable marking

Complete overview of conductor and cable marking

Markers for labeling with THERMOMARK CARD, BLUEMARK LED or plotters

Conductor diameter [mm]	Conductor clips										Slide-on conductor markers		Conductor markers for assembly with cable binders			
	UC-WMC ... / UC-WMCO ...										UCT-WMS ...		UC-WMTB ...			
	Page 137										Page 154		Page 151			
	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...	UCT-WMS 3,2...	UCT-WMS 4,7...	UC-WMTB ...	UC-WMTBA (24x5)...	UC-WMTBA (29x8)...	UC-WMTBA (60x11)...
0.5																
1.0																
1.5	1.2					1.3 1.6										
2.0	1.9						1.6 2.1				1.5					
2.5		1.9						2.1								
3.0		3.1						2.9			3.2	2.5				
3.5			2.8						3.6							
4.0									3.6							
4.5			4.4	4.2									4.0			
5.0				5.6	5.0					4.9						
5.5																
6.0																
7.0															6.0	6.0
8.0					7.5								7.0			
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

MARKING system

Conductor and cable marking

Complete overview of conductor and cable marking

Markers for labeling with THERMOMARK CARD printers

Conductor diameter [mm]	Slide-on conductor markers/ Markers for cable binder fastening					Cable marker labels								Shrink sleeve												
	WMT ... WMTB ... / US-WMTB ...					WML ... / US-WML ...								WMS ...												
	Page 174					Page 160								Page 164												
	WMT 2,4...	WMT 3,5...	WMT 4,2...	WMT 5,5...	WMT 8,4...	WMTB ... / US-WMTB ...	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...	WMS 2,4...	WMS 3,2...	WMS 4,8...	WMS 6,4...	WMS 9,5...	WMS 12,7...	WMS 19,1...	WMS 25,4...	WMS 38,1...	WMS 50,8...
0.5																										
1.0																										
1.5	1.0																									
2.0																										
2.5	2.4	2.0															2.4									
3.0																										
3.5		3.5	3.0				3.0											3.2								
4.0																										
4.5			4.2	4.0																						
5.0																										
5.5				5.5	5.0																					
6.0									6.0																	
7.0																			6.4							
8.0					8.4				7.5																	
9.0																										
10.0																						9.5				
12.0											12															
14.0												14											12.7			
16.0																										
18.0													18													
20.0																							19.1			
22.0														22												
24.0																										
26.0																								25.4		
28.0																										
30.0																										
35.0															36											
40.0																									38.1	
45.0																										
50.0															46											

Can be printed with:



BLUEMARK



Plotter



20 markers for conductor diameters from 1.2 to 1.9 mm, lettering field size: 15 x 4 mm



- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two labeling areas that are clearly legible at all times
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

For more versions, visit www.phoenixcontact.net/catalog.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	
Number of individual labels	20
Number of individual labels per strip	4
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free
Conductor diameter range	[mm] 1.2 ... 1.9
Conductor cross section range	[mm ²] 0.25 ... 0.34
Conductor cross section range	AWG 24 ... 22

Technical data

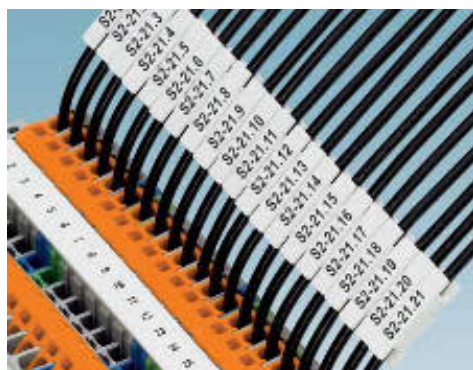
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	20
Number of individual labels per strip	4
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free
Conductor diameter range	[mm] 1.2 ... 1.9
Conductor cross section range	[mm ²] 0.25 ... 0.34
Conductor cross section range	AWG 24 ... 22

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMC 1,9 (15X4)	0828004	10
	red	UC-WMC 1,9 (15X4) RD	0828006	10
	orange	UC-WMC 1,9 (15X4) OG	0828007	10
	yellow	UC-WMC 1,9 (15X4) YE	0828008	10
	violet	UC-WMC 1,9 (15X4) VT	0828009	10
	blue	UC-WMC 1,9 (15X4) BU	0828010	10
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications¹⁾				
	white	UC-WMC 1,9 (15X4) CUS	0828012	1
	red	UC-WMC 1,9 (15X4) RD CUS	0828013	1
	orange	UC-WMC 1,9 (15X4) OG CUS	0828014	1
	yellow	UC-WMC 1,9 (15X4) YE CUS	0828015	1
	violet	UC-WMC 1,9 (15X4) VT CUS	0828016	1
	blue	UC-WMC 1,9 (15X4) BU CUS	0828017	1

Accessories

Magazine, for CMS-P1-PLOTTER		
P1 UC-MAG 1	5146079	1





20 markers for conductor diameters from 1.9 to 3.1 mm, lettering field size: 15 x 4 mm



12 markers for conductor diameters from 1.9 to 3.1 mm, lettering field size: 23 x 4 mm



12 markers for conductor diameters from 1.9 to 3.1 mm, lettering field size: 30 x 4 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
20
4
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free
1.9 ... 3.1
0.5 ... 1.5
20 ... 16

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
12
4
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free
1.9 ... 3.1
0.5 ... 1.5
20 ... 16

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
12
4
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free
1.9 ... 3.1
0.5 ... 1.5
20 ... 16

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 3,1 (15X4)	0818205	10
UC-WMC 3,1 (15X4) RD	0818755	10
UC-WMC 3,1 (15X4) OG	0818726	10
UC-WMC 3,1 (15X4) YE	0818739	10
UC-WMC 3,1 (15X4) VT	0825370	10
UC-WMC 3,1 (15X4) BU	0818742	10
UC-WMC 3,1 (15X 4) CUS	0824692	1
UC-WMC 3,1 (15X 4) RD CUS	0824696	1
UC-WMC 3,1 (15X 4) OG CUS	0824695	1
UC-WMC 3,1 (15X 4) YE CUS	0824697	1
UC-WMC 3,1 (15X4) VT CUS	0826773	1
UC-WMC 3,1 (15X 4) BU CUS	0824693	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 3,1 (23X4)	0818218	10
UC-WMC 3,1 (23X4) RD	0818807	10
UC-WMC 3,1 (23X4) OG	0818771	10
UC-WMC 3,1 (23X4) YE	0818784	10
UC-WMC 3,1 (23X4) VT	0825371	10
UC-WMC 3,1 (23X4) BU	0818797	10
UC-WMC 3,1 (23X 4) CUS	0824704	1
UC-WMC 3,1 (23X 4) RD CUS	0824708	1
UC-WMC 3,1 (23X 4) OG CUS	0824707	1
UC-WMC 3,1 (23X 4) YE CUS	0824709	1
UC-WMC 3,1 (23X4) VT CUS	0826775	1
UC-WMC 3,1 (23X 4) BU CUS	0824705	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 3,1 (30X4)	0819631	10
UC-WMC 3,1 (30X4) RD	0820769	10
UC-WMC 3,1 (30X4) OG	0823863	10
UC-WMC 3,1 (30X4) YE	0819644	10
UC-WMC 3,1 (30X4) VT	0825372	10
UC-WMC 3,1 (30X4) BU	0820756	10
UC-WMC 3,1 (30X4) CUS	0824716	1
UC-WMC 3,1 (30X4) RD CUS	0824723	1
UC-WMC 3,1 (30X4) OG CUS	0824722	1
UC-WMC 3,1 (30X4) YE CUS	0824717	1
UC-WMC 3,1 (30X4) VT CUS	0826777	1
UC-WMC 3,1 (30X4) BU CUS	0824720	1

Accessories		
P1 UC-MAG 1	5146079	1

Accessories		
P1 UC-MAG 1	5146079	1

Accessories		
P1 UC-MAG 1	5146079	1

MARKING system

Conductor and cable marking

UniCard clip-on conductor marking

- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



15 markers for conductor diameters from 2.8 to 4.4 mm, lettering field size: 15 x 5.5 mm



9 markers for conductor diameters from 2.8 to 4.4 mm, lettering field size: 23 x 5.5 mm

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	15
Number of individual labels per strip	3
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free
Conductor diameter range	[mm] 2.8 ... 4.4
Conductor cross section range	[mm²] 1.5 ... 4
Conductor cross section range	AWG 16 ... 12

Technical data		
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER	
Number of individual labels	9	
Number of individual labels per strip	3	
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	[°C] -40 ... 120	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	
Conductor diameter range	[mm] 2.8 ... 4.4	
Conductor cross section range	[mm²] 1.5 ... 4	
Conductor cross section range	AWG 16 ... 12	

Technical data		
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER	
Number of individual labels	9	
Number of individual labels per strip	3	
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	[°C] -40 ... 120	
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)	
Components	Silicone and halogen-free	
Conductor diameter range	[mm] 2.8 ... 4.4	
Conductor cross section range	[mm²] 1.5 ... 4	
Conductor cross section range	AWG 16 ... 12	

Ordering data	
Description	Color
UniCard, for subsequent labeling of conductors	
	white
	red
	orange
	yellow
	violet
	blue
	green
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications¹⁾	
	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 4,4 (15X 5,5)	0818182	10
UC-WMC 4,4 (15X 5,5) RD	0818852	10
UC-WMC 4,4 (15X 5,5) OG	0818823	10
UC-WMC 4,4 (15X 5,5) YE	0818836	10
UC-WMC 4,4 (15X5,5) VT	0825373	10
UC-WMC 4,4 (15X 5,5) BU	0818849	10
UC-WMC 4,4 (15X 5,5) GN	0818865	10
UC-WMC 4,4 (15X 5,5) CUS	0824728	1
UC-WMC 4,4 (15X 5,5) RD CUS	0824732	1
UC-WMC 4,4 (15X 5,5) OG CUS	0824731	1
UC-WMC 4,4 (15X 5,5) YE CUS	0824733	1
UC-WMC 4,4 (15X5,5) VT CUS	0826779	1
UC-WMC 4,4 (15X 5,5) BU CUS	0824729	1
UC-WMC 4,4 (15X 5,5) GN CUS	0824730	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC-WMC 4,4 (23X 5,5) CUS	0824740	1
UC-WMC 4,4 (23X 5,5) RD CUS	0824744	1
UC-WMC 4,4 (23X 5,5) OG CUS	0824743	1
UC-WMC 4,4 (23X 5,5) YE CUS	0824745	1
UC-WMC 4,4 (23X5,5) VT CUS	0826781	1
UC-WMC 4,4 (23X 5,5) BU CUS	0824741	1
UC-WMC 4,4 (23X 5,5) GN CUS	0824742	1

Accessories		
Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 2	5146082
Magazine, for CMS-P1-PLOTTER		

Accessories		
Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 2	5146082
Magazine, for CMS-P1-PLOTTER		

Accessories		
Magazine, for CMS-P1-PLOTTER	P1 UC-MAG 2	5146082
Magazine, for CMS-P1-PLOTTER		



9 markers for conductor diameters from 2.8 to 4.4 mm, lettering field size: 30 x 5.5 mm



6 markers for conductor diameters from 4.2 to 5.6 mm, lettering field size: 23 x 8 mm



6 markers for conductor diameters from 4.2 to 5.6 mm, lettering field size: 30 x 8 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
9
3
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free
2.8 ... 4.4
1.5 ... 4
16 ... 12

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
6
2
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free
4.2 ... 5.6
4 ... 10
12 ... 10

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
6
2
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free
4.2 ... 5.6
4 ... 10
12 ... 10

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC-WMC 4,4 (30X 5,5) CUS	0824752	1
UC-WMC 4,4 (30X5,5) RD CUS	0824759	1
UC-WMC 4,4 (30X5,5) OG CUS	0824758	1
UC-WMC 4,4 (30X 5,5) YE CUS	0824753	1
UC-WMC 4,4 (30X5,5) VT CUS	0826783	1
UC-WMC 4,4 (30X5,5) BU CUS	0824756	1
UC-WMC 4,4 (30X5,5) GN CUS	0824757	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 5,6 (23X8)	0825382	5
UC-WMC 5,6 (23X8) RD	0825387	5
UC-WMC 5,6 (23X8) OG	0825385	5
UC-WMC 5,6 (23X8) YE	0825386	5
UC-WMC 5,6 (23X8) VT	0825388	5
UC-WMC 5,6 (23X8) BU	0825383	5
UC-WMC 5,6 (23X8) GN	0825384	5
UC-WMC 5,6 (23X8) CUS	0827005	1
UC-WMC 5,6 (23X8) RD CUS	0827009	1
UC-WMC 5,6 (23X8) OG CUS	0827008	1
UC-WMC 5,6 (23X8) YE CUS	0827011	1
UC-WMC 5,6 (23X8) VT CUS	0827010	1
UC-WMC 5,6 (23X8) BU CUS	0827006	1
UC-WMC 5,6 (23X8) GN CUS	0827007	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMC 5,6 (30X8)	0825396	5
UC-WMC 5,6 (30X8) RD	0825401	5
UC-WMC 5,6 (30X8) OG	0825399	5
UC-WMC 5,6 (30X8) YE	0825400	5
UC-WMC 5,6 (30X8) VT	0825402	5
UC-WMC 5,6 (30X8) BU	0825397	5
UC-WMC 5,6 (30X8) GN	0825398	5
UC-WMC 5,6 (30X8) CUS	0827012	1
UC-WMC 5,6 (30X8) RD CUS	0827016	1
UC-WMC 5,6 (30X8) OG CUS	0827015	1
UC-WMC 5,6 (30X8) YE CUS	0827018	1
UC-WMC 5,6 (30X8) VT CUS	0827017	1
UC-WMC 5,6 (30X8) BU CUS	0827013	1
UC-WMC 5,6 (30X8) GN CUS	0827014	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 2	5146082	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 3	5146095	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 3	5146095	1

Can be printed with:



BLUEMARK



Plotter



6 markers for conductor diameters from 5 to 7.5 mm, lettering field size: 23 x 8 mm



- The UC-WMC ... UniCard labeling range includes markers for captive labeling of control cables right through to light plastic-sheathed cables with large diameters
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- Can be clipped on even after wiring has been completed
- One-handed assembly
- Two labeling areas that are clearly legible at all times
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.

General data

Can be printed with:	
Number of individual labels	6
Number of individual labels per strip	2
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free
Conductor diameter range	[mm] 5 ... 7.5
Conductor cross section range	[mm²] 6 ... 16
Conductor cross section range	AWG 10 ... 6

Technical data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	6
Number of individual labels per strip	2
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free
Conductor diameter range	[mm] 5 ... 7.5
Conductor cross section range	[mm²] 6 ... 16
Conductor cross section range	AWG 10 ... 6

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMC 7,5 (23X8)	0818179	5
	red	UC-WMC 7,5 (23X8) RD	0819039	5
	orange	UC-WMC 7,5 (23X8) OG	0818920	5
	yellow	UC-WMC 7,5 (23X8) YE	0818933	5
	violet	UC-WMC 7,5 (23X8) VT	0825376	5
	blue	UC-WMC 7,5 (23X8) BU	0818946	5
	green	UC-WMC 7,5 (23X8) GN	0818959	5
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications ¹⁾				
	white	UC-WMC 7,5 (23X8) CUS	0824767	1
	red	UC-WMC 7,5 (23X 8) RD CUS	0824764	1
	orange	UC-WMC 7,5 (23X8) OG CUS	0824770	1
	yellow	UC-WMC 7,5 (23X8) YE CUS	0824771	1
	violet	UC-WMC 7,5 (23X8) VT CUS	0826785	1
	blue	UC-WMC 7,5 (23X8) BU CUS	0824768	1
	green	UC-WMC 7,5 (23X8) GN CUS	0824769	1

Accessories

Magazine, for CMS-P1-PLOTTER		
P1 UC-MAG 3	5146095	1





**6 markers for conductor diameters from
5 to 7.5 mm, lettering field size: 30 x 8 mm**

Technical data

BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
 6
 2
 PA
 V2
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Silicone and halogen-free
 5 ... 7.5
 6 ... 16
 10 ... 6

Ordering data

Type	Order No.	Pcs. / Pkt.
UC-WMC 7,5 (30X8)	0819673	5
UC-WMC 7,5 (30X8) RD	0820963	5
UC-WMC 7,5 (30X8) OG	0823724	5
UC-WMC 7,5 (30X8) YE	0819686	5
UC-WMC 7,5 (30X8) VT	0825377	5
UC-WMC 7,5 (30X8) BU	0820950	5
UC-WMC 7,5 (30X8) GN	0823708	5
UC-WMC 7,5 (30X 8) CUS	0824776	1
UC-WMC 7,5 (30X8) RD CUS	0824783	1
UC-WMC 7,5 (30X8) OG CUS	0824782	1
UC-WMC 7,5 (30X 8) YE CUS	0824777	1
UC-WMC 7,5 (30X8) VT CUS	0826787	1
UC-WMC 7,5 (30X8) BU CUS	0824780	1
UC-WMC 7,5 (30X8) GN CUS	0824781	1

Accessories

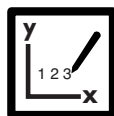
P1 UC-MAG 3	5146095	1
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UniCard slide-on conductor marking

Can be printed with:



BLUEMARK



Plotter



40 markers for conductor diameters from 1.3 to 1.6 mm, lettering field size: 12 x 3 mm



- The UC-WMCO ... UniCard labeling range includes slide-on markers for the subsequent labeling of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- Large-surface labeling in a space-saving design
- Secure tight fit even in the event of vibrations
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	
Number of individual labels	40
Number of individual labels per strip	10
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Components	Silicone and halogen-free
Conductor diameter range	[mm] 1.3 ... 1.6
Conductor cross section range	[mm²] 0.25 ... 0.5

Technical data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	40
Number of individual labels per strip	10
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[°C] -40 ... 120
Components	Silicone and halogen-free
Conductor diameter range	[mm] 1.3 ... 1.6
Conductor cross section range	[mm²] 0.25 ... 0.5

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for subsequent labeling of conductors				
	white	UC-WMCO 1,6 (12X3)	0827092	10
	red	UC-WMCO 1,6 (12X3) RD	0827516	10
	orange	UC-WMCO 1,6 (12X3) OG	0827517	10
	yellow	UC-WMCO 1,6 (12X3) YE	0827513	10
	violet	UC-WMCO 1,6 (12X3) VT	0827518	10
	blue	UC-WMCO 1,6 (12X3) BU	0827514	10
	green	UC-WMCO 1,6 (12X3) GN	0827515	10
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications¹⁾				
	white	UC-WMCO 1,6 (12X3) CUS	0829032	1
	red	UC-WMCO 1,6 (12X3) RD CUS	0829036	1
	orange	UC-WMCO 1,6 (12X3) OG CUS	0829037	1
	yellow	UC-WMCO 1,6 (12X3) YE CUS	0829033	1
	violet	UC-WMCO 1,6 (12X3) VT CUS	0829038	1
	blue	UC-WMCO 1,6 (12X3) BU CUS	0829034	1
	green	UC-WMCO 1,6 (12X3) GN CUS	0829035	1

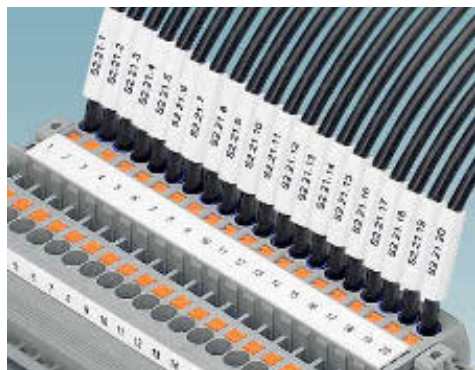
Magazine, for CMS-P1-PLOTTER

Assembly tool, for easily sliding on UC-WMCO 1,6 and UC-WMCO 2,1 conductor markers

Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

Accessories

Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1





40 markers for conductor diameters from 1.3 to 1.6 mm, lettering field size: 21 x 3 mm



40 markers for conductor diameters from 1.6 to 2.1 mm, lettering field size: 12 x 3 mm



40 markers for conductor diameters from 1.6 to 2.1 mm, lettering field size: 21 x 3 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
40
10
PA
V2
-40 ... 120
Silicone and halogen-free
1.3 ... 1.6
0.25 ... 0.5

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
40
10
PA
V2
-40 ... 120
Silicone and halogen-free
1.6 ... 2.1
0.5 ... 0.75

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
40
10
PA
V2
-40 ... 120
Silicone and halogen-free
1.6 ... 2.1
0.5 ... 0.75

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMCO 1,6 (21X3)	0827106	10
UC-WMCO 1,6 (21X3) RD	0827528	10
UC-WMCO 1,6 (21X3) OG	0827529	10
UC-WMCO 1,6 (21X3) YE	0827525	10
UC-WMCO 1,6 (21X3) VT	0827530	10
UC-WMCO 1,6 (21X3) BU	0827526	10
UC-WMCO 1,6 (21X3) GN	0827527	10
UC-WMCO 1,6 (21X3) CUS	0829039	1
UC-WMCO 1,6 (21X3) RD CUS	0829043	1
UC-WMCO 1,6 (21X3) OG CUS	0829044	1
UC-WMCO 1,6 (21X3) YE CUS	0829040	1
UC-WMCO 1,6 (21X3) VT CUS	0829045	1
UC-WMCO 1,6 (21X3) BU CUS	0829041	1
UC-WMCO 1,6 (21X3) GN CUS	0829042	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMCO 2,1 (12X3)	0827120	10
UC-WMCO 2,1 (12X3) RD	0827540	10
UC-WMCO 2,1 (12X3) OG	0827541	10
UC-WMCO 2,1 (12X3) YE	0827537	10
UC-WMCO 2,1 (12X3) VT	0827542	10
UC-WMCO 2,1 (12X3) BU	0827538	10
UC-WMCO 2,1 (12X3) GN	0827539	10
UC-WMCO 2,1 (12X3) CUS	0829046	1
UC-WMCO 2,1 (12X3) RD CUS	0829050	1
UC-WMCO 2,1 (12X3) OG CUS	0829051	1
UC-WMCO 2,1 (12X3) YE CUS	0829047	1
UC-WMCO 2,1 (12X3) VT CUS	0829052	1
UC-WMCO 2,1 (12X3) BU CUS	0829048	1
UC-WMCO 2,1 (12X3) GN CUS	0829049	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMCO 2,1 (21X3)	0827134	10
UC-WMCO 2,1 (21X3) RD	0827552	10
UC-WMCO 2,1 (21X3) OG	0827553	10
UC-WMCO 2,1 (21X3) YE	0827549	10
UC-WMCO 2,1 (21X3) VT	0827554	10
UC-WMCO 2,1 (21X3) BU	0807550	10
UC-WMCO 2,1 (21X3) GN	0827551	10
UC-WMCO 2,1 (21X3) CUS	0829053	1
UC-WMCO 2,1 (21X3) RD CUS	0829057	1
UC-WMCO 2,1 (21X3) OG CUS	0829058	1
UC-WMCO 2,1 (21X3) YE CUS	0829054	1
UC-WMCO 2,1 (21X3) VT CUS	0829059	1
UC-WMCO 2,1 (21X3) BU CUS	0829055	1
UC-WMCO 2,1 (21X3) GN CUS	0829056	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 2,1 TOOL	0827803	10
UC-WMCO TOOL SET	0827807	1

Can be printed with:



BLUEMARK



Plotter



40 markers for conductor diameters from 2.1 to 2.9 mm, lettering field size: 12 x 3.5 mm



- The UC-WMCO ... UniCard labeling range includes slide-on markers for the subsequent labeling of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:
1) For ordering example, see page 243.

General data	
Can be printed with:	
Number of individual labels	40
Number of individual labels per strip	10
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Silicone and halogen-free
Conductor diameter range	2.1 ... 2.9 [mm]
Conductor cross section range	0.75 ... 1.5 [mm²]

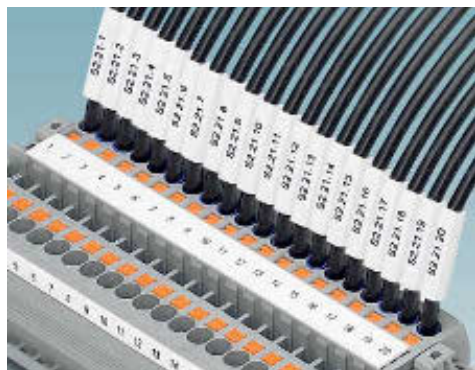
Technical data	
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	40
Number of individual labels per strip	10
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Silicone and halogen-free
Conductor diameter range	2.1 ... 2.9 [mm]
Conductor cross section range	0.75 ... 1.5 [mm²]

Description	Color
UniCard, for subsequent labeling of conductors	
	white
	red
	orange
	yellow
	violet
	blue
	green
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications¹⁾	
	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UC-WMCO 2,9 (12X3,5)	0827148	10	
UC-WMCO 2,9 (12X3,5) RD	0827564	10	
UC-WMCO 2,9 (12X3,5) OG	0827565	10	
UC-WMCO 2,9 (12X3,5) YE	0827561	10	
UC-WMCO 2,9 (12X3,5) VT	0827566	10	
UC-WMCO 2,9 (12X3,5) BU	0827562	10	
UC-WMCO 2,9 (12X3,5) GN	0827563	10	
UC-WMCO 2,9 (12X3,5) CUS	0829060	1	
UC-WMCO 2,9 (12X3,5) RD CUS	0829064	1	
UC-WMCO 2,9 (12X3,5) OG CUS	0829065	1	
UC-WMCO 2,9 (12X3,5) YE CUS	0829061	1	
UC-WMCO 2,9 (12X3,5) VT CUS	0829066	1	
UC-WMCO 2,9 (12X3,5) BU CUS	0829062	1	
UC-WMCO 2,9 (12X3,5) GN CUS	0829063	1	

Magazine, for CMS-P1-PLOTTER	
Assembly tool, for easily sliding on UC-WMCO 2,9 ... and UC-WMCO 3,6 ... conductor markers	
Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers	

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 3,6 TOOL	0827804	10
UC-WMCO TOOL SET	0827807	1





40 markers for conductor diameters from 2.1 to 2.9 mm, lettering field size: 21 x 3.5 mm



32 markers for conductor diameters from 2.9 to 3.6 mm, lettering field size: 12 x 4.5 mm



32 markers for conductor diameters from 2.9 to 3.6 mm, lettering field size: 21 x 4.5 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
40
10
PA
V2
-40 ... 120
Silicone and halogen-free
2.1 ... 2.9
0.75 ... 1.5

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
32
8
PA
V2
-40 ... 120
Silicone and halogen-free
2.9 ... 3.6
1.5 ... 2.5

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
32
8
PA
V2
-40 ... 120
Silicone and halogen-free
2.9 ... 3.6
1.5 ... 2.5

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMCO 2,9 (21X3,5)	0827162	10
UC-WMCO 2,9 (21X3,5) RD	0827576	10
UC-WMCO 2,9 (21X3,5) OG	0827577	10
UC-WMCO 2,9 (21X3,5) YE	0827573	10
UC-WMCO 2,9 (21X3,5) VT	0827578	10
UC-WMCO 2,9 (21X3,5) BU	0827574	10
UC-WMCO 2,9 (21X3,5) GN	0827575	10
UC-WMCO 2,9 (21X3,5) CUS	0829067	1
UC-WMCO 2,9 (21X3,5) RD CUS	0829071	1
UC-WMCO 2,9 (21X3,5) OG CUS	0829072	1
UC-WMCO 2,9 (21X3,5) YE CUS	0829068	1
UC-WMCO 2,9 (21X3,5) VT CUS	0829073	1
UC-WMCO 2,9 (21X3,5) BU CUS	0829069	1
UC-WMCO 2,9 (21X3,5) GN CUS	0829070	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMCO 3,6 (12X4,5)	0827176	10
UC-WMCO 3,6 (12X4,5) RD	0827588	10
UC-WMCO 3,6 (12X4,5) OG	0827589	10
UC-WMCO 3,6 (12X4,5) YE	0827585	10
UC-WMCO 3,6 (12X4,5) VT	0827590	10
UC-WMCO 3,6 (12X4,5) BU	0827586	10
UC-WMCO 3,6 (12X4,5) GN	0827587	10
UC-WMCO 3,6 (12X4,5) CUS	0829074	1
UC-WMCO 3,6 (12X4,5) RD CUS	0829078	1
UC-WMCO 3,6 (12X4,5) OG CUS	0829079	1
UC-WMCO 3,6 (12X4,5) YE CUS	0829075	1
UC-WMCO 3,6 (12X4,5) VT CUS	0829080	1
UC-WMCO 3,6 (12X4,5) BU CUS	0829076	1
UC-WMCO 3,6 (12X4,5) GN CUS	0829077	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMCO 3,6 (21X4,5)	0827190	10
UC-WMCO 3,6 (21X4,5) RD	0827600	10
UC-WMCO 3,6 (21X4,5) OG	0827601	10
UC-WMCO 3,6 (21X4,5) YE	0827597	10
UC-WMCO 3,6 (21X4,5) VT	0827602	10
UC-WMCO 3,6 (21X4,5) BU	0827598	10
UC-WMCO 3,6 (21X4,5) GN	0827599	10
UC-WMCO 3,6 (21X4,5) CUS	0829081	1
UC-WMCO 3,6 (21X4,5) RD CUS	0829085	1
UC-WMCO 3,6 (21X4,5) OG CUS	0829086	1
UC-WMCO 3,6 (21X4,5) YE CUS	0829082	1
UC-WMCO 3,6 (21X4,5) VT CUS	0829087	1
UC-WMCO 3,6 (21X4,5) BU CUS	0829083	1
UC-WMCO 3,6 (21X4,5) GN CUS	0829084	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 3,6 TOOL	0827804	10
UC-WMCO TOOL SET	0827807	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 3,6 TOOL	0827804	10
UC-WMCO TOOL SET	0827807	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 7	5146568	1
UC-WMCO 3,6 TOOL	0827804	10
UC-WMCO TOOL SET	0827807	1

MARKING system

Conductor and cable marking

UniCard slide-on conductor marking

- The UC-WMCO ... UniCard labeling range includes slide-on markers for the subsequent labeling of conductors. They can be slid on easily using the UC-WMCO ... TOOL
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



24 markers for conductor diameters from 3.6 to 4.9 mm, lettering field size: 12 x 5 mm



24 markers for conductor diameters from 3.6 to 4.9 mm, lettering field size: 21 x 5 mm

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	24
Number of individual labels per strip	6
Material	PA
Inflammability class according to UL 94	V2
Temperature range	[-40 ... 120] [°C]
Components	Silicone and halogen-free
Conductor diameter range	[3.6 ... 4.9] [mm]
Conductor cross section range	[2.5 ... 4] [mm²]

Technical data		
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER	
Number of individual labels	24	
Number of individual labels per strip	6	
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	-40 ... 120	[°C]
Components	Silicone and halogen-free	
Conductor diameter range	3.6 ... 4.9	[mm]
Conductor cross section range	2.5 ... 4	[mm²]

Technical data		
Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER	
Number of individual labels	24	
Number of individual labels per strip	6	
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	-40 ... 120	[°C]
Components	Silicone and halogen-free	
Conductor diameter range	3.6 ... 4.9	[mm]
Conductor cross section range	2.5 ... 4	[mm²]

Description	Color
UniCard, for subsequent labeling of conductors	
	white
	red
	orange
	yellow
	violet
	blue
	green
UniCard, for subsequent labeling of conductors, labeled acc. to customer specifications¹⁾	
	white
	red
	orange
	yellow
	violet
	blue
	green

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UC-WMCO 4,9 (12X5)	0827733	5	
UC-WMCO 4,9 (12X5) RD	0827737	5	
UC-WMCO 4,9 (12X5) OG	0827738	5	
UC-WMCO 4,9 (12X5) YE	0827734	5	
UC-WMCO 4,9 (12X5) VT	0827739	5	
UC-WMCO 4,9 (12X5) BU	0827735	5	
UC-WMCO 4,9 (12X5) GN	0827736	5	
UC-WMCO 4,9 (12X5) CUS	0829088	1	
UC-WMCO 4,9 (12X5) RD CUS	0829092	1	
UC-WMCO 4,9 (12X5) OG CUS	0829093	1	
UC-WMCO 4,9 (12X5) YE CUS	0829089	1	
UC-WMCO 4,9 (12X5) VT CUS	0829094	1	
UC-WMCO 4,9 (12X5) BU CUS	0829090	1	
UC-WMCO 4,9 (12X5) GN CUS	0829091	1	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
UC-WMCO 4,9 (21X5)	0827747	5	
UC-WMCO 4,9 (21X5) RD	0827751	5	
UC-WMCO 4,9 (21X5) OG	0827752	5	
UC-WMCO 4,9 (21X5) YE	0827748	5	
UC-WMCO 4,9 (21X5) VT	0827753	5	
UC-WMCO 4,9 (21X5) BU	0827749	5	
UC-WMCO 4,9 (21X5) GN	0827750	5	
UC-WMCO 4,9 (21X5) CUS	0829095	1	
UC-WMCO 4,9 (21X5) RD CUS	0829099	1	
UC-WMCO 4,9 (21X5) OG CUS	0829100	1	
UC-WMCO 4,9 (21X5) YE CUS	0829096	1	
UC-WMCO 4,9 (21X5) VT CUS	0829101	1	
UC-WMCO 4,9 (21X5) BU CUS	0829097	1	
UC-WMCO 4,9 (21X5) GN CUS	0829098	1	

Magazine, for CMS-P1-PLOTTER
Assembly tool, for easily sliding on UC-WMCO 4,9 ... conductor markers
Assembly tool set, for easily sliding on UC-WMCO 1,6 ... and UC-WMCO 4,9 ... conductor markers

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 5,8 TOOL	0827805	10
UC-WMCO TOOL SET	0827807	1

Accessories		
P1 UC-MAG 7	5146568	1
UC-WMCO 5,8 TOOL	0827805	10
UC-WMCO TOOL SET	0827807	1

Conductor marking with ferrules that can be labeled

Can be printed with:



BLUEMARK



Ferrules for conductors with a cross section of 0.5 to 2.5 mm², lettering field size: 15 x 4 mm

- Ferrules can be labeled 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
- Electroplated
- Matching crimping pliers from the TOOL fox range can be found in part 2 of the CLIPLINE catalog

General data	
Can be printed with:	
Material / coating	
Temperature range	[°C]
Components	

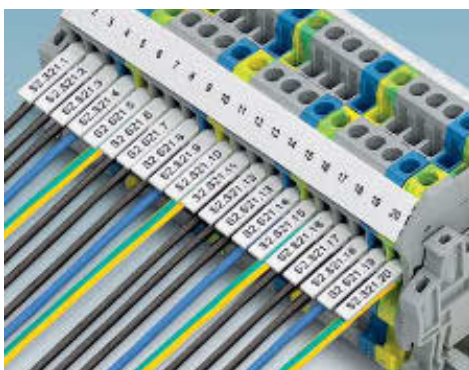
Technical data	
BLUEMARK X1, BLUEMARK LED	
E-CU / tin-plated (galvanic)	
-40 ... 120	
Silicone and halogen-free	

Description	Color
Ferrules , with plastic sleeve that can be labeled, 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	480

Magazine for BLUEMARK printer, for accommodating ferrules with insulating collar that can be labeled	
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



MARKING system

Conductor and cable marking

UniCard conductor marking for marking collars

Can be printed with:



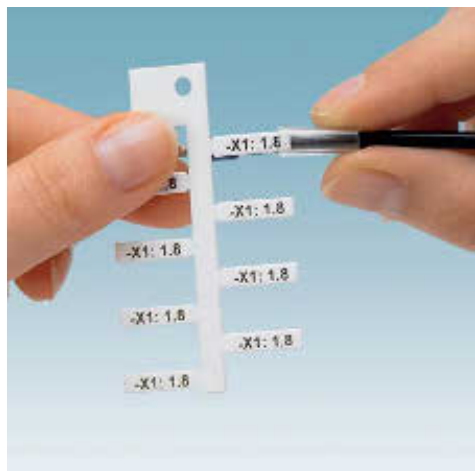
BLUEMARK



Plotter



48 markers for a lettering field size of 10 x 4 mm



- The UC-WMT ... UniCard labeling range includes markers for labeling conductors with marking collars from the PATG/PATO ... system
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- Labeled 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 for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

General data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	48
Number of individual labels per strip	8
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Silicone and halogen-free

Technical data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	48
Number of individual labels per strip	8
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Silicone and halogen-free

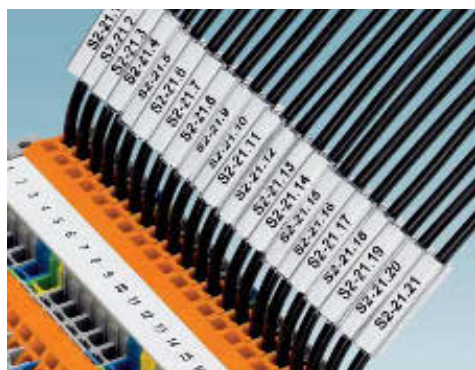
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars				
	white	UC-WMT (10X4)	0819372	10
	red	UC-WMT (10X4) RD	0821001	10
	orange	UC-WMT (10X4) OG	0823986	10
	yellow	UC-WMT (10X4) YE	0819385	10
	violet	UC-WMT (10X4) VT	0825360	10
	blue	UC-WMT (10X4) BU	0820992	10
	green	UC-WMT (10X4) GN	0823999	10
UniCard, with insert strips for marking system, labeled acc. to customer specifications¹⁾				
	white	UC-WMT (10X 4) CUS	0824788	1
	red	UC-WMT (10X 4) RD CUS	0824790	1
	orange	UC-WMT (10X4) OG CUS	0824796	1
	yellow	UC-WMT (10X 4) YE CUS	0824791	1
	violet	UC-WMT (10X4) VT CUS	0826789	1
	blue	UC-WMT (10X 4) BU CUS	0824789	1
	green	UC-WMT (10X4) GN CUS	0824795	1

Accessories

Magazine, for CMS-P1-PLOTTER		
P1 UC-MAG 4	5146105	1

Notes:
PATG/PATO ... system, see page 190.
¹⁾ For ordering example, see page 243.





32 markers for a lettering field size of
12 x 4 mm



32 markers for a lettering field size of
15 x 4 mm



24 markers for a lettering field size of
18 x 4 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
32
8
PA
V2
-40 ... 120
Silicone and halogen-free

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
32
8
PA
V2
-40 ... 120
Silicone and halogen-free

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
24
8
PA
V2
-40 ... 120
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC-WMT (12X4) CUS	0827033	1
UC-WMT (12X4) RD CUS	0827035	1
UC-WMT (12X4) OG CUS	0827036	1
UC-WMT (12X4) YE CUS	0827037	1
UC-WMT (12X4) VT CUS	0827038	1
UC-WMT (12X4) BU CUS	0827039	1
UC-WMT (12X4) GN CUS	0827040	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC-WMT (15X 4) CUS	0824812	1
UC-WMT (15X 4) RD CUS	0824814	1
UC-WMT (15X4) OG CUS	0824821	1
UC-WMT (15X 4) YE CUS	0824815	1
UC-WMT (15X4) VT CUS	0826791	1
UC-WMT (15X 4) BU CUS	0824813	1
UC-WMT (15X4) GN CUS	0824820	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
UC-WMT (18X 4) CUS	0824824	1
UC-WMT (18X 4) RD CUS	0824826	1
UC-WMT (18X4) OG CUS	0824833	1
UC-WMT (18X 4) YE CUS	0824827	1
UC-WMT (18X4) VT CUS	0826793	1
UC-WMT (18X 4) BU CUS	0824825	1
UC-WMT (18X4) GN CUS	0824832	1

Accessories		
P1 UC-MAG 4	5146105	1

Accessories		
P1 UC-MAG 4	5146105	1

Accessories		
P1 UC-MAG 4	5146105	1

MARKING system

Conductor and cable marking

UniCard conductor marking for marking collars

- The UC-WMT ... UniCard labeling range includes markers for labeling conductors with marking collars from the PATG/PATO ... system
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements



24 markers for a lettering field size of 23 x 4 mm



16 markers for a lettering field size of 30 x 4 mm

Notes:
PATG/PATO ... system, see page 190.
1) For ordering example, see page 243.

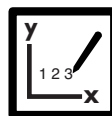
		Technical data			Technical data		
General data		BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER			BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER		
Can be printed with:		24			16		
Number of individual labels		8			8		
Number of individual labels per strip		PA			PA		
Material		V2			V2		
Inflammability class according to UL 94		-40 ... 120			-40 ... 120		
Temperature range		[°C] Silicone and halogen-free			Silicone and halogen-free		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard, with insert strips for PATG and PATO marking collars							
	white	UC-WMT (23X4)	0819411	10	UC-WMT (30X4)	0819437	10
	red	UC-WMT (23X4) RD	0821124	10	UC-WMT (30X4) RD	0821166	10
	orange	UC-WMT (23X4) OG	0824118	10	UC-WMT (30X4) OG	0824150	10
	yellow	UC-WMT (23X4) YE	0819424	10	UC-WMT (30X4) YE	0819440	10
	violet	UC-WMT (23X4) VT	0825363	10	UC-WMT (30X4) VT	0825364	10
	blue	UC-WMT (23X4) BU	0821111	10	UC-WMT (30X4) BU	0821153	10
	green	UC-WMT (23X4) GN	0824121	10	UC-WMT (30X4) GN	0824163	10
UniCard, with insert strips for marking system, labeled acc. to customer specifications¹⁾							
	white	UC-WMT (23X4) CUS	0824838	1	UC-WMT (30X4) CUS	0824848	1
	red	UC-WMT (23X4) RD CUS	0824842	1	UC-WMT (30X4) RD CUS	0824855	1
	orange	UC-WMT (23X4) OG CUS	0824841	1	UC-WMT (30X4) OG CUS	0824854	1
	yellow	UC-WMT (23X4) YE CUS	0824843	1	UC-WMT (30X4) YE CUS	0824849	1
	violet	UC-WMT (23X4) VT CUS	0826795	1	UC-WMT (30X4) VT CUS	0826797	1
	blue	UC-WMT (23X4) BU CUS	0824839	1	UC-WMT (30X4) BU CUS	0824852	1
	green	UC-WMT (23X4) GN CUS	0824840	1	UC-WMT (30X4) GN CUS	0824853	1
		Accessories			Accessories		
Magazine, for CMS-P1-PLOTTER		P1 UC-MAG 4	5146105	1	P1 UC-MAG 4	5146105	1

UniCard cable marking for assembly with cable binders

Can be printed with:



BLUEMARK



Plotter



Markers for cable diameters > 7 mm

- The UC-WMTB ... UniCard labeling range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- For large-surface labeling of conductors and cables > 7 mm in diameter
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:
For more cable markers for fixing with cable binders, visit: www.phoenixcontact.net/catalog
Matching cable binders, see page 382.
1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	
Cable diameter range	[mm]
Cable cross section range	[mm²]

Technical data

BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
PA
V2
-40 ... 120
Silicone and halogen-free
> 7
> 16

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

UniCard , for mounting with two cable binders, 4-section, lettering field size: 44 x 15 mm	
	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

UniCard , for mounting with two cable binders, labeled acc. to customer specifications , 4-section, lettering field size: 44 x 15 mm ¹⁾	
	white
	orange
	yellow
	violet
	blue
	green
	silver
	brown

UniCard , for mounting with one cable binder, labeled acc. to customer specifications¹⁾	
3-section, lettering field size: 52 x 30 mm	white
2-section, lettering field size: 52 x 50 mm	white

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
UC-WMTB (44X15) CUS	0829379	1
UC-WMTB (44X15) OG CUS	0829405	1
UC-WMTB (44X15) YE CUS	0829409	1
UC-WMTB (44X15) VT CUS	0829408	1
UC-WMTB (44X15) BU CUS	0829403	1
UC-WMTB (44X15) GN CUS	0829404	1
UC-WMTB (44X15) SR CUS	0829407	1
UC-WMTB (44X15) BN CUS	0829402	1
UC-WMTB (52X30) CUS	0829432	1
UC-WMTB (52X50) CUS	0829433	1

Accessories

P1 UC-MAG 6	5146121	1
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Magazine, for CMS-P1-PLOTTER

Conductor and cable marking

UniCard cable marking for assembly with cable binders

Can be printed with:



BLUEMARK



Plotter



12 markers for a cable diameter > 4 mm, lettering field size: 24 x 5 mm



- The UC-WMTBA ... UniCard labeling range includes markers that can be secured using standard cable binders
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- For large-surface labeling of conductors and cables > 4 mm in diameter
- The sheets provide space for including function texts
- Thanks to their angular shape the markers fit perfectly onto cables
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

Cable binders can be used for UC-WMTBA... up to a width of 5 mm. Matching cable binders, see page 382.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	12
Number of individual labels per strip	4
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Silicone and halogen-free
Cable diameter range	> ... 4 [mm]

Technical data

Can be printed with:	BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
Number of individual labels	12
Number of individual labels per strip	4
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Components	Silicone and halogen-free
Cable diameter range	> ... 4 [mm]

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, for assembly with cable binders				
	white	UC-WMTBA (24X5)	0820426	10
	red	UC-WMTBA (24X5) RD	0820565	10
	orange	UC-WMTBA (24X5) OG	0825342	10
	yellow	UC-WMTBA (24X5) YE	0820439	10
	violet	UC-WMTBA (24X5) VT	0825344	10
	blue	UC-WMTBA (24X5) BU	0820552	10
	green	UC-WMTBA (24X5) GN	0825343	10
UniCard, for assembly with cable binders, labeled acc. to customer specifications ¹⁾				
	white	UC-WMTBA (24X5) CUS	0824860	1
	red	UC-WMTBA (24X5) RD CUS	0824862	1
	orange	UC-WMTBA (24X5) OG CUS	0826800	1
	yellow	UC-WMTBA (24X5) YE CUS	0824863	1
	violet	UC-WMTBA (24X5) VT CUS	0826801	1
	blue	UC-WMTBA (24X5) BU CUS	0824861	1
	green	UC-WMTBA (24X5) GN CUS	0826799	1

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 1	5146079	1
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12 markers for a cable diameter > 6 mm, lettering field size: 29 x 8 mm



4 markers for a cable diameter > 6 mm, lettering field size: 60 x 11 mm

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
12
4
PA
V2
-40 ... 120
Silicone and halogen-free
> 6

Technical data
BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER
4
1
PA
V2
-40 ... 120
Silicone and halogen-free
> 6

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMTBA (29X8)	0820183	10
UC-WMTBA (29X8) RD	0820604	10
UC-WMTBA (29X8) OG	0825345	10
UC-WMTBA (29X8) YE	0820390	10
UC-WMTBA (29X8) VT	0825347	10
UC-WMTBA (29X8) BU	0820594	10
UC-WMTBA (29X8) GN	0825346	10
UC-WMTBA (29X8) CUS	0824868	1
UC-WMTBA (29X8) RD CUS	0824870	1
UC-WMTBA (29X8) OG CUS	0826806	1
UC-WMTBA (29X8) YE CUS	0824871	1
UC-WMTBA (29X8) VT CUS	0826807	1
UC-WMTBA (29X8) BU CUS	0824869	1
UC-WMTBA (29X8) GN CUS	0826805	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UC-WMTBA (60X11)	0820468	10
UC-WMTBA (60X11) RD	0820646	10
UC-WMTBA (60X11) OG	0825348	10
UC-WMTBA (60X11) YE	0820471	10
UC-WMTBA (60X11) VT	0825350	10
UC-WMTBA (60X11) BU	0820633	10
UC-WMTBA (60X11) GN	0825349	10
UC-WMTBA (60X11) CUS	0824876	1
UC-WMTBA (60X11) RD CUS	0824878	1
UC-WMTBA (60X11) OG CUS	0826812	1
UC-WMTBA (60X11) YE CUS	0824879	1
UC-WMTBA (60X11) VT CUS	0826813	1
UC-WMTBA (60X11) BU CUS	0824877	1
UC-WMTBA (60X11) GN CUS	0826811	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 1	5146079	1

Accessories		
Type	Order No.	Pcs. / Pkt.
P1 UC-MAG 1	5146079	1

Can be printed with:

N



Thermal transfer for cards



BLUEMARK



55 markers for conductor diameters from 1.5 to 4.7 mm

- The UCT-WMS ... UniCard labeling range includes markers that can be slid onto conductors
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the THERMOMARK CARD and BLUEMARK LED
- The format automatically ensures printing with a high level of positioning accuracy
- The markers support multiline labeling
- The sheets provide space for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

Matching cable binders, see page 382.

¹⁾ For ordering example, see page 243.

General data

Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Components	

Technical data

THERMOMARK CARD, BLUEMARK X1, BLUEMARK LED
PC V0
V0
-40 ... 100
Silicone and halogen-free

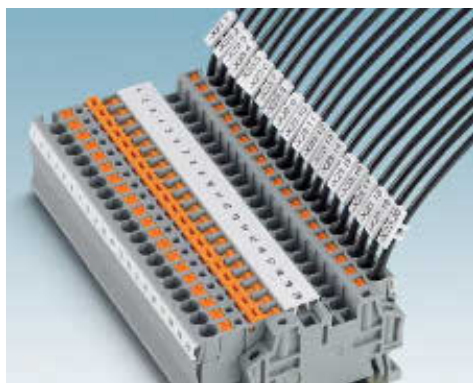
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , for labeling conductors with a diameter of 1.5 - 3.2 mm				
55-section, lettering field size: 12 x 4 mm	white	UCT-WMS 3,2 (12X4)	0828570	8
	yellow	UCT-WMS 3,2 (12X4) YE	0828572	8
45-section, lettering field size: 12 x 5.5 mm, for conductors with a diameter of 2.5 - 4.7 mm	white	UCT-WMS 4,7 (12X5,5)	0828571	6
	yellow	UCT-WMS 4,7 (12X5,5) YE	0828573	6
UniCard , for labeling conductors with a diameter of 1.5 - 3.2 mm, labeled acc. to customer specifications ¹⁾				
55-section, lettering field size: 12 x 4 mm	white	UCT-WMS 3,2 (12X4) CUS	0829951	1
	yellow	UCT-WMS 3,2 (12X4) YE CUS	0829952	1
45-section, lettering field size: 12 x 5.5 mm, for conductors with a diameter of 2.5 - 4.7 mm	white	UCT-WMS 4,7 (12X5,5) CUS	0829953	1
	yellow	UCT-WMS 4,7 (12X5,5) YE CUS	0829954	1

Accessories

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

THERMOMARK CARD-UCT-MAG3	5146613	1
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UniSheet conductor marking for marking collars

Can be printed with:



Thermal transfer for cards



112 markers for a lettering field size of 10 x 4 mm

- The US-WMT ... UniSheet labeling range includes markers for labeling conductors 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
- Labeled 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 for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:
Matching cable binders, see page 382.
1) For ordering example, see page 243.

General data	
Can be printed with:	THERMOMARK CARD
Number of individual labels	112
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

Technical data

Technical data	
Can be printed with:	THERMOMARK CARD
Number of individual labels	112
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

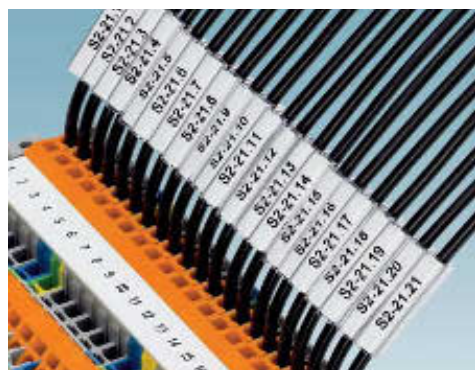
Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with insert strips for PATG and PATO marking collars				
	white	US-WMT (10X4)	0828765	10
	red	US-WMT (10X4) RD	0829273	10
	orange	US-WMT (10X4) OG	0829274	10
	yellow	US-WMT (10X4) YE	0828952	10
	violet	US-WMT (10X4) VT	0829276	10
	blue	US-WMT (10X4) BU	0829277	10
	green	US-WMT (10X4) GN	0829278	10
UniSheet, with insert strips for marking system, labeled acc. to customer specifications¹⁾				
	white	US-WMT (10X4) CUS	0829957	1
	red	US-WMT (10X4) RD CUS	0829958	1
	orange	US-WMT (10X4) OG CUS	0829959	1
	yellow	US-WMT (10X4) YE CUS	0829960	1
	violet	US-WMT (10X4) VT CUS	0829961	1
	blue	US-WMT (10X4) BU CUS	0829962	1
	green	US-WMT (10X4) GN CUS	0829963	1

Accessories

Magazine, for THERMOMARK CARD, for accommodating all US-... materials	
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THERMOMARK CARD-US-MAG1	5146451	1
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Conductor and cable marking

UniSheet cable marking for marking collars



- The US-WMT ... UniSheet labeling range includes markers for labeling conductors with marking collars from the PATG/PATO ... system
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements



98 markers for a lettering field size of 12 x 4 mm



84 markers for a lettering field size of 15 x 4 mm

Notes:
Matching cable binders, see page 382.
¹⁾ For ordering example, see page 243.

		Technical data			Technical data		
General data		THERMOMARK CARD			THERMOMARK CARD		
Can be printed with:		98			84		
Number of individual labels		14			14		
Number of individual labels per strip		PVC			PVC		
Material		V0			V0		
Inflammability class according to UL 94		-30 ... 80			-30 ... 80		
Temperature range		DIN EN 61010-1 (VDE 0411-1)			DIN EN 61010-1 (VDE 0411-1)		
Wipe resistance		Silicone-free			Silicone-free		
Components							
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniSheet, with insert strips for PATG and PATO marking collars							
	white	US-WMT (12X4)	0828766	10	US-WMT (15X4)	0828767	10
	red	US-WMT (12X4) RD	0829280	10	US-WMT (15X4) RD	0829287	10
	orange	US-WMT (12X4) OG	0829281	10	US-WMT (15X4) OG	0829288	10
	yellow	US-WMT (12X4) YE	0828953	10	US-WMT (15X4) YE	0828954	10
	violet	US-WMT (12X4) VT	0829283	10	US-WMT (15X4) VT	0829290	10
	blue	US-WMT (12X4) BU	0829284	10	US-WMT (15X4) BU	0829291	10
	green	US-WMT (12X4) GN	0829285	10	US-WMT (15X4) GN	0829292	10
UniSheet, with insert strips for marking system, labeled acc. to customer specifications¹⁾							
	white	US-WMT (12X4) CUS	0829964	1	US-WMT (15X4) CUS	0829971	1
	red	US-WMT (12X4) RD CUS	0829965	1	US-WMT (15X4) RD CUS	0829972	1
	orange	US-WMT (12X4) OG CUS	0829966	1	US-WMT (15X4) OG CUS	0829973	1
	yellow	US-WMT (12X4) YE CUS	0829967	1	US-WMT (15X4) YE CUS	0829974	1
	violet	US-WMT (12X4) VT CUS	0829968	1	US-WMT (15X4) VT CUS	0829975	1
	blue	US-WMT (12X4) BU CUS	0829969	1	US-WMT (15X4) BU CUS	0829976	1
	blue	US-WMT (12X4) GN CUS	0829970	1	US-WMT (15X4) GN CUS	0829977	1
		Accessories			Accessories		
Magazine, for THERMOMARK CARD, for accommodating all US-... materials		THERMOMARK CARD-US-MAG1	5146451	1	THERMOMARK CARD-US-MAG1	5146451	1

N

N

N



70 markers for a lettering field size of 18 x 4 mm



56 markers for a lettering field size of 23 x 4 mm



42 markers for a lettering field size of 30 x 4 mm

Technical data	
THERMOMARK CARD	
70	
14	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-WMT (18X4)	0828768	10
US-WMT (18X4) RD	0829294	10
US-WMT (18X4) OG	0829295	10
US-WMT (18X4) YE	0828955	10
US-WMT (18X4) VT	0829297	10
US-WMT (18X4) BU	0829298	10
US-WMT (18X4) GN	0829299	10
US-WMT (18X4) CUS	0829978	1
US-WMT (18X4) RD CUS	0829979	1
US-WMT (18X4) OG CUS	0829980	1
US-WMT (18X4) YE CUS	0829981	1
US-WMT (18X4) VT CUS	0829982	1
US-WMT (18X4) BU CUS	0829983	1
US-WMT (18X4) GN CUS	0829984	1

Accessories		
THERMOMARK CARD-US-MAG1	5146451	1

Technical data	
THERMOMARK CARD	
56	
14	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-WMT (23X4)	0828769	10
US-WMT (23X4) RD	0829301	10
US-WMT (23X4) OG	0829302	10
US-WMT (23X4) YE	0828956	10
US-WMT (23X4) VT	0829304	10
US-WMT (23X4) BU	0829305	10
US-WMT (23X4) GN	0829306	10
US-WMT (23X4) CUS	0829985	1
US-WMT (23X4) RD CUS	0829986	1
US-WMT (23X4) OG CUS	0829987	1
US-WMT (23X4) YE CUS	0829988	1
US-WMT (23X4) VT CUS	0829989	1
US-WMT (23X4) BU CUS	0829990	1
US-WMT (23X4) GN CUS	0829991	1

Accessories		
THERMOMARK CARD-US-MAG1	5146451	1

Technical data	
THERMOMARK CARD	
42	
14	
PVC	
V0	
-30 ... 80	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Ordering data		
Type	Order No.	Pcs. / Pkt.
US-WMT (30X4)	0828770	10
US-WMT (30X4) RD	0829308	10
US-WMT (30X4) OG	0829309	10
US-WMT (30X4) YE	0828957	10
US-WMT (30X4) VT	0829311	10
US-WMT (30X4) BU	0829312	10
US-WMT (30X4) GN	0829313	10
US-WMT (30X4) CUS	0829992	1
US-WMT (30X4) RD CUS	0829993	1
US-WMT (30X4) OG CUS	0829994	1
US-WMT (30X4) YE CUS	0829995	1
US-WMT (30X4) VT CUS	0829996	1
US-WMT (30X4) BU CUS	0829997	1
US-WMT (30X4) GN CUS	0829998	1

Accessories		
THERMOMARK CARD-US-MAG1	5146451	1

Conductor and cable marking

UniSheet conductor marking for assembly with cable binders

Can be printed with:

N



Thermal transfer for cards



Unlabeled



- The US-WMTB... UniSheet labeling 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 for including function texts

Notes:

Matching cable binders, see page 382.

General data

Can be printed with:
 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, with markers for attachment using cable binders				
35-section, lettering field size: 24 x 5 mm	white	US-WMTB (24X5)	0828771	10
	red	US-WMTB (24X5) RD	0829320	10
	orange	US-WMTB (24X5) OG	0829321	10
	yellow	US-WMTB (24X5) YE	0828958	10
	violet	US-WMTB (24X5) VT	0829323	10
	blue	US-WMTB (24X5) BU	0829324	10
	green	US-WMTB (24X5) GN	0829325	10
24-section, lettering field size: 29 x 8 mm	white	US-WMTB (29X8)	0828772	10
	red	US-WMTB (29X8) RD	0829327	10
	orange	US-WMTB (29X8) OG	0829328	10
	yellow	US-WMTB (29X8) YE	0828959	10
	violet	US-WMTB (29X8) VT	0829330	10
	blue	US-WMTB (29X8) BU	0829331	10
	green	US-WMTB (29X8) GN	0829332	10
12-section, lettering field size: 44 x 15 mm	white	US-WMTB (44X15)	0828773	10
	red	US-WMTB (44X15) RD	0829334	10
	orange	US-WMTB (44X15) OG	0829335	10
	yellow	US-WMTB (44X15) YE	0828960	10
	violet	US-WMTB (44X15) VT	0829337	10
	blue	US-WMTB (44X15) BU	0829338	10
	green	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



– The US-WMTB... conductor markers can also be supplied labeled according to customer requirements

Notes:
 1) For ordering example, see page 243.



Labeled according to customer specifications

General data		Technical data		
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 markers for attachment using cable binders, labeled acc. to customer specifications¹⁾				
35-section, lettering field size: 24 x 5 mm	white	US-WMTB (24X5) CUS	0830004	1
	red	US-WMTB (24X5) RD CUS	0830005	1
	orange	US-WMTB (24X5) OG CUS	0830006	1
	yellow	US-WMTB (24X5) YE CUS	0830007	1
	violet	US-WMTB (24X5) VT CUS	0830008	1
	blue	US-WMTB (24X5) BU CUS	0830009	1
	blue	US-WMTB (24X5) GN CUS	0830010	1
24-section, lettering field size: 29 x 8 mm	white	US-WMTB (29X8) CUS	0830011	1
	red	US-WMTB (29X8) RD CUS	0830012	1
	orange	US-WMTB (29X8) OG CUS	0830013	1
	yellow	US-WMTB (29X8) YE CUS	0830014	1
	violet	US-WMTB (29X8) VT CUS	0830015	1
	blue	US-WMTB (29X8) BU CUS	0830016	1
	blue	US-WMTB (29X8) GN CUS	0830017	1
12-section, lettering field size: 44 x 15 mm	white	US-WMTB (44X15) CUS	0830018	1
	red	US-WMTB (44X15) RD CUS	0830019	1
	orange	US-WMTB (44X15) OG CUS	0830020	1
	yellow	US-WMTB (44X15) YE CUS	0830021	1
	violet	US-WMTB (44X15) VT CUS	0830022	1
	blue	US-WMTB (44X15) BU CUS	0830023	1
	green	US-WMTB (44X15) GN CUS	0830024	1

MARKING system

Conductor and cable marking

Self-adhesive conductor marking with transparent protective foil

Can be printed with:



Thermal transfer for rolls



Markers for conductor diameters of up to 46 mm, unlabeled



- The cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling 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 labeling image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

General data

Can be printed with:

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

PVC

-40 ... 70

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
7000 labels, up to 6 mm Ø	white	WML 6 (13X13)R	0816252	1
4000 labels, up to 7.5 mm Ø	white	WML 7,5 (13X13)R	0800074	1
2100 labels, up to 7.5 mm Ø	white	WML 7,5 (25X13)R	0800075	1
3000 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
2500 labels, up to 18 mm Ø	white	WML 18 (12X12)R	0817507	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

– All WML ... cable marker labels can also be supplied labeled according to customer requirements



Markers for conductor diameters of up to 36 mm, labeled acc. to customer specifications

Notes:
 1) For ordering example, see page 243.

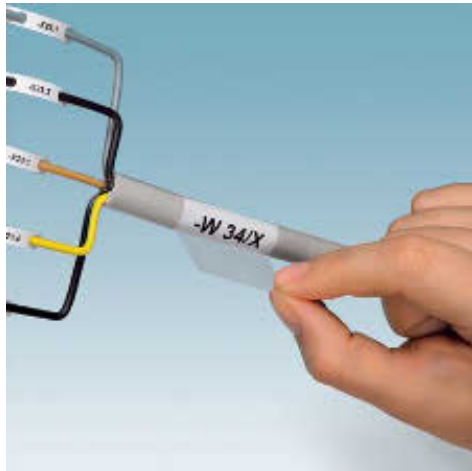
General data		Technical data		
Material		PVC		
Temperature range	[°C]	-40 ... 70		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone-free		
General data		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Cable marker labels, labeled according to customer specifications¹⁾				
Up to 3 mm Ø, 4 labels per strip	white	WML 3 (13X10)R CUS	0824884	1
Up to 5 mm Ø, 3 labels per strip	white	WML 5 (25X10)R CUS	0824885	1
Up to 6 mm Ø, 7 labels per strip	white	WML 6 (13X13)R CUS	0824886	1
Up to 7.5 mm Ø, 7 labels per strip	white	WML 7,5 (13X13)R CUS	0824887	1
Up to 7.5 mm Ø, 3 labels per strip	white	WML 7,5 (25X13)R CUS	0824888	1
Up to 12 mm Ø, 3 labels per strip	white	WML 12 (25X19)R CUS	0824889	1
Up to 14 mm Ø, 3 labels per strip	white	WML 14 (25X19)R CUS	0824890	1
Up to 14 mm Ø, 3 labels per strip	yellow	WML 14 (25X19)R YE CUS	0824891	1
Up to 14 mm Ø, 2 labels per strip	white	WML 14 (38X19)R CUS	0824892	1
Up to 18 mm Ø, 7 labels per strip	white	WML 18 (12X12)R CUS	0824894	1
Up to 22 mm Ø, 3 labels per strip	white	WML 22 (25X25)R CUS	0824895	1
Up to 36 mm Ø, 3 labels per strip	white	WML 36 (25X38)R CUS	0824896	1



Self-adhesive conductor marking with transparent protective foil

Can be printed with:

N



Thermal transfer for cards



Markers for conductor diameters of up to 36 mm

- The US-WML ... cable marker labels consist of a labeling field and a transparent protective foil
- The protective foil is wound over the labeling 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 labeling image created by thermal transfer printing
- Quick and easy handling
- Resistant to solvents

General data

Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
Polyester
-50 ... 110
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

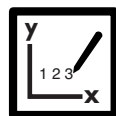
Description	Color
Cable marker labels , 32-section, lettering field size: 13 x 13 mm	
8-section, lettering field size: 19 x 25 mm	white
4-section, lettering field size: 25 x 25 mm	white

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

Self-adhesive conductor marking with transparent protective foil

Can be printed with:



Plotter



Laser



Markers for conductor diameters of up to 21 mm

- The cable marker labels are ideal for labeling round cables and flat-ribbon cables
- Labeling can be performed with standard laser printers
- The label is wrapped in a transparent protective foil to protect it permanently against mechanical wear and chemical effects
- Laser printer controlled by means of the CLIP PROJECT software
- Labeling service: Phoenix Contact can custom-label all cable marker labels in accordance with your requirements

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

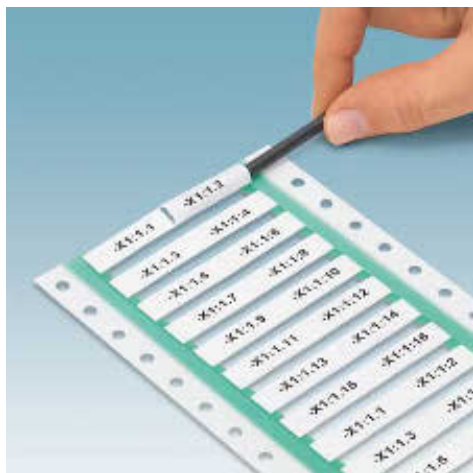
Technical data	
CMS-P1-PLOTTER, Office printing systems	
Polyester	
-40 ... 100	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
Cable marker labels , sheet format: A4, self-adhesive	
1 sheet = 169 labels, up to 3.0 mm Ø	transparent/white
1 sheet = 56 labels, up to 6.5 mm Ø	transparent/white
Cable marker labels , self-adhesive, labeled according to customer specifications¹⁾	
1 sheet = 169 labels, up to 3.0 mm Ø	transparent/white
1 sheet = 56 labels, up to 6.5 mm Ø	transparent/white
Flat-ribbon cable marker labels , sheet format: A4, self-adhesive	
1 sheet = 15 labels, up to 21 mm Ø	transparent/white
1 sheet = 12 labels, up to 18 mm Ø	transparent/white
Flat-ribbon cable marker labels , self-adhesive, labeled according to customer specifications¹⁾	
1 sheet = 15 labels, up to 21 mm Ø	transparent/white
1 sheet = 12 labels, up to 18 mm Ø	transparent/white

Ordering data		
Type	Order No.	Pcs. / Pkt.
KML 12X 9 WH	5036150	10
KML 25X12 WH	5036163	10
KML 12X 9 WH CUS	0824434	1
KML 25X12 WH CUS	0824435	1
FKML 35X25 WH	5036228	10
FKML 47X25 WH	5036231	10
FKML 35X25 WH CUS	0824410	1
FKML 47X25 WH CUS	0824411	1

Can be printed with:

N



Thermal transfer for rolls



Conductor cross sections from 0.8 to 38 mm, white and yellow

- The WMS ... shrink sleeves permanently identify conductors and cables
 - The sleeves are pre-assembled for optimum use of material
 - Up to four markers per sleeve are separated by perforation
 - The conductor to be labeled is easily threaded through the sleeve and fixed by shrinking the sleeve
 - The sleeves remain flexible after shrinking
 - The shrink sleeves offer the conductors additional electrical insulation and mechanical protection
- The following standards are met:
- UL 224 (125°C, 600 V, VV-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, VV-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:
Special ink ribbon (THERMOMARK-RIBBON ... WMSU) is required for labeling WMS ... shrink sleeves, see under "Printers" on page 33.

General data		Technical data	
Can be printed with:		THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1	
Material		Polyolefine	
Temperature range	[°C]	-55 ... 125	
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)	
Components		Halogen-free	
Shrink rate		3:1	

Description		Color	Ordering data		
Type	Order No.	Pcs. / Pkt.			
Shrink sleeve, for conductor diameter of 0.8 - 2.4 mm					
1 roll = 1000 markers, each 15 mm long	white	1	WMS 2,4 (15X4)R	0800379	1
	yellow	1	WMS 2,4 (15X4)R YE	0800412	1
1 roll = 500 markers, each 30 mm long	white	1	WMS 2,4 (30X4)R	0800373	1
	yellow	1	WMS 2,4 (30X4)R YE	0800407	1
1 roll = 250 markers, each 60 mm long	white	1	WMS 2,4 (60X4)R	0800363	1
	yellow	1	WMS 2,4 (60X4)R YE	0800398	1
Shrink sleeve, for conductor diameter of 1.0 - 3.2 mm					
1 roll = 1000 markers, each 15 mm long	white	1	WMS 3,2 (15X5)R	0800380	1
	yellow	1	WMS 3,2 (15X5)R YE	0800413	1
1 roll = 500 markers, each 30 mm long	white	1	WMS 3,2 (30X5)R	0800374	1
	yellow	1	WMS 3,2 (30X5)R YE	0800408	1
1 roll = 250 markers, each 60 mm long	white	1	WMS 3,2 (60X5)R	0800364	1
	yellow	1	WMS 3,2 (60X5)R YE	0800399	1
Shrink sleeve, for conductor diameter of 1.6 - 4.8 mm					
1 roll = 1000 markers, each 15 mm long	white	1	WMS 4,8 (15X9)R	0800382	1
	yellow	1	WMS 4,8 (15X9)R YE	0800414	1
1 roll = 500 markers, each 30 mm long	white	1	WMS 4,8 (30X9)R	0800375	1
	yellow	1	WMS 4,8 (30X9)R YE	0800409	1
1 roll = 250 markers, each 60 mm long	white	1	WMS 4,8 (60X9)R	0800366	1
	yellow	1	WMS 4,8 (60X9)R YE	0800400	1
Shrink sleeve, for conductor diameter of 2.1 - 6.4 mm					
1 roll = 500 markers, each 30 mm long	white	1	WMS 6,4 (30X10)R	0800376	1
	yellow	1	WMS 6,4 (30X10)R YE	0800410	1
1 roll = 250 markers, each 60 mm long	white	1	WMS 6,4 (60X10)R	0800367	1
	yellow	1	WMS 6,4 (60X10)R YE	0800401	1
Shrink sleeve, for conductor diameter of 3.2 - 9.5 mm					
1 roll = 500 markers, each 30 mm long	white	1	WMS 9,5 (30X16)R	0800377	1
	yellow	1	WMS 9,5 (30X16)R YE	0800411	1
1 roll = 250 markers, each 60 mm long	white	1	WMS 9,5 (60X16)R	0800368	1
	yellow	1	WMS 9,5 (60X16)R YE	0800402	1
Shrink sleeve, for conductor diameter of 4.2 - 12.7 mm					
1 roll = 250 markers, each 60 mm long	white	1	WMS 12,7 (60X20)R	0800369	1
	yellow	1	WMS 12,7 (60X20)R YE	0800403	1
Shrink sleeve, for conductor diameter of 6.4 - 19.1 mm					
1 roll = 250 markers, each 60 mm long	white	1	WMS 19,1 (60X30)R	0800370	1
	yellow	1	WMS 19,1 (60X30)R YE	0800404	1
Shrink sleeve, for conductor diameter of 8.5 - 25.4 mm					
1 roll = 250 markers, each 60 mm long	white	1	WMS 25,4 (60X40)R	0800371	1
	yellow	1	WMS 25,4 (60X40)R YE	0800405	1
Shrink sleeve, for conductor diameter of 12.7 - 38.1 mm					
1 roll = 250 markers, each 60 mm long	white	1	WMS 38,1 (60X60)R	0800372	1
	yellow	1	WMS 38,1 (60X60)R YE	0800406	1

Pre-assembled shrink sleeves

N

N

Notes:
 Special ink ribbon (THERMOMARK-RIBBON ... WMSU) is required for labeling WMS ... shrink sleeves, see under "Printers" on page 33.
 The THERMOMARK ROLL-ERH external media hub is required for RL rolls, see under "Printers" on page 33.
 The THERMOMARK-ERH 500 external media hub is required for XL rolls, see under "Printers" on page 33.



Conductor cross sections from 0.8 to 4.8 mm, RL roll, white



Conductor cross sections from 0.8 to 4.8 mm, XL roll, white

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink rate	

Technical data		
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1		
Polyolefine		
-55 ... 125		
DIN EN 61010-1 (VDE 0411-1)		
Halogen-free		
3:1		

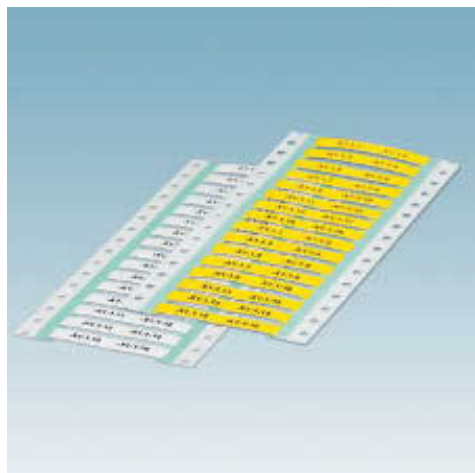
Technical data		
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1		
Polyolefine		
-55 ... 125		
DIN EN 61010-1 (VDE 0411-1)		
Halogen-free		
3:1		

Description	Color
Shrink sleeve, for conductor diameter of 0.8 - 2.4 mm	
1 roll = 4000 markers, each 15 mm long	white
1 roll = 10000 markers, each 15 mm long	white
1 roll = 2000 markers, each 30 mm long	white
1 roll = 5000 markers, each 30 mm long	white
1 roll = 1000 markers, each 60 mm long	white
1 roll = 2500 markers, each 60 mm long	white
Shrink sleeve, for conductor diameter of 1.0 - 3.2 mm	
1 roll = 4000 markers, each 15 mm long	white
1 roll = 2000 markers, each 30 mm long	white
1 roll = 1000 markers, each 60 mm long	white
Shrink sleeve, for conductor diameter of 1.6 - 4.8 mm	
1 roll = 4000 markers, each 15 mm long	white
1 roll = 10000 markers, each 15 mm long	white
1 roll = 2000 markers, each 30 mm long	white
1 roll = 5000 markers, each 30 mm long	white
1 roll = 1000 markers, each 60 mm long	white
1 roll = 2500 markers, each 60 mm long	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMS 2,4 (15X4)RL	0800389	1
WMS 2,4 (30X4)RL	0800386	1
WMS 2,4 (60X4)RL	0800383	1
WMS 3,2 (15X5)RL	0800390	1
WMS 3,2 (30X5)RL	0800387	1
WMS 3,2 (60X5)RL	0800384	1
WMS 4,8 (15X9)RL	0800391	1
WMS 4,8 (30X9)RL	0800388	1
WMS 4,8 (60X9)RL	0800385	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMS 2,4 (15X4)RXL	0800396	1
WMS 2,4 (30X4)RXL	0800394	1
WMS 2,4 (60X4)RXL	0800392	1
WMS 4,8 (15X9)RXL	0800397	1
WMS 4,8 (30X9)RXL	0800395	1
WMS 4,8 (60X9)RXL	0800393	1

Pre-assembled shrink sleeves, labeled acc. to customer specifications



Conductor cross sections from 0.8 to 38 mm, white

All WMS ... pre-assembled shrink sleeves can be supplied labeled according to customer requirements.

The following standards are met:

- UL 224 (125°C, 600 V, VW-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:

¹⁾ For ordering example, see page 243.

General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink rate	

Technical data

Polyolefine
-55 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Shrink sleeve, for conductor diameter of 0.8 - 2.4 mm, labeled according to customer specifications¹⁾ 4 markers per strip, each 15 mm long	white yellow	WMS 2,4 (15X4)R CUS	0800752	1
2 markers per strip, each 30 mm long	white yellow	WMS 2,4 (30X4)R CUS	0800745	1
1 marker per strip, each 60 mm long	white yellow	WMS 2,4 (60X4)R CUS	0800736	1
Shrink sleeve, for conductor diameter of 1.0 - 3.2 mm, labeled according to customer specifications¹⁾ 4 markers per strip, each 15 mm long	white yellow	WMS 3,2 (15X5)R CUS	0800753	1
2 markers per strip, each 30 mm long	white yellow	WMS 3,2 (30X5)R CUS	0800746	1
1 marker per strip, each 60 mm long	white yellow	WMS 3,2 (60X5)R CUS	0800737	1
Shrink sleeve, for conductor diameter of 1.6 - 4.8 mm, labeled according to customer specifications¹⁾ 4 markers per strip, each 15 mm long	white yellow	WMS 4,8 (15X7,5)R CUS	0800754	1
2 markers per strip, each 30 mm long	white yellow	WMS 4,8 (30X7,5)R CUS	0800748	1
1 marker per strip, each 60 mm long	white yellow	WMS 4,8 (60X7,5)R CUS	0800738	1
Shrink sleeve, for conductor diameter of 2.1 - 6.4 mm, labeled according to customer specifications¹⁾ 2 markers per strip, each 30 mm long	white yellow	WMS 6,4 (30X10)R CUS	0800749	1
1 marker per strip, each 60 mm long	white yellow	WMS 6,4 (60X10)R CUS	0800739	1
Shrink sleeve, for conductor diameter of 3.2 - 9.5 mm, labeled according to customer specifications¹⁾ 2 markers per strip, each 30 mm long	white yellow	WMS 9,5 (30X16)R CUS	0800751	1
1 marker per strip, each 60 mm long	white yellow	WMS 9,5 (60X16)R CUS	0800740	1
Shrink sleeve, for conductor diameter of 4.2 - 12.7 mm, labeled according to customer specifications¹⁾ 1 marker per strip, each 60 mm long	white yellow	WMS 12,7 (60X20)R CUS	0800741	1
Shrink sleeve, for conductor diameter of 6.4 - 19.1 mm, labeled according to customer specifications¹⁾ 1 marker per strip, each 60 mm long	white yellow	WMS 19,1 (60X30)R CUS	0800742	1
Shrink sleeve, for conductor diameter of 8.5 - 25.4 mm, labeled according to customer specifications¹⁾ 1 marker per strip, each 60 mm long	white yellow	WMS 25,4 (60X40)R CUS	0800743	1
Shrink sleeve, for conductor diameter of 12.7 - 38.1 mm, labeled according to customer specifications¹⁾ 1 marker per strip, each 60 mm long	white yellow	WMS 38,1 (60X60)R CUS	0800744	1

N



Conductor cross sections from 0.8 to 38 mm,
yellow

Technical data

Polyolefine
-55 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

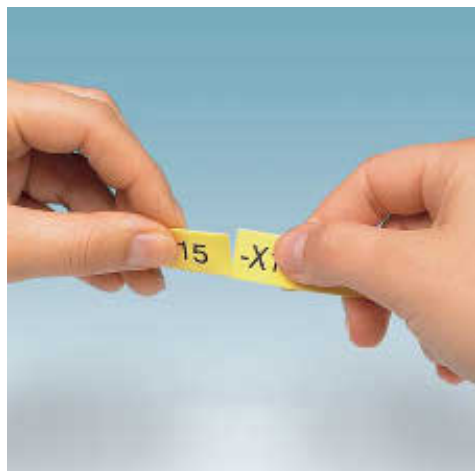
Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (15X4)R YE CUS	0800770	1
WMS 2,4 (30X4)R YE CUS	0800765	1
WMS 2,4 (60X4)R YE CUS	0800755	1
WMS 3,2 (15X5)R YE CUS	0800771	1
WMS 3,2 (30X5)R YE CUS	0800766	1
WMS 3,2 (60X5)R YE CUS	0800756	1
WMS 4,8 (15X7,5)R YE CUS	0800772	1
WMS 4,8 (30X7,5)R YE CUS	0800767	1
WMS 4,8 (60X7,5)R YE CUS	0800757	1
WMS 6,4 (30X10)R YE CUS	0800768	1
WMS 6,4 (60X10)R YE CUS	0800758	1
WMS 9,5 (30X16)R YE CUS	0800769	1
WMS 9,5 (60X16)R YE CUS	0800759	1
WMS 12,7 (60X20)R YE CUS	0800760	1
WMS 19,1 (60X30)R YE CUS	0800761	1
WMS 25,4 (60X40)R YE CUS	0800762	1
WMS 38,1 (60X60)R YE CUS	0800764	1

Continuous shrink sleeves

Can be printed with:

N



Thermal transfer for rolls



Shrinkable markers, white

- The shrink sleeves are automatically perforated or cut to the length required in the printing process
 - Available in the form of continuous rolls 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 met:
- UL 224 (125°C, 600 V, VW-1)
 - CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
 - MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

Notes:
Special ink ribbon (THERMOMARK-RIBBON ... WMSU) is required for labeling WMS ... shrink sleeves, see under "Printers" on page 33
The THERMOMARK ROLL-ERH external media hub is required for large rolls, see under "Printers" on page 33.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink rate	

Technical data

THERMOMARK W1, THERMOMARK W2, THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2
Polyolefine
-55 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Shrink sleeve			
1 roll = 30 m, conductor diameter: 0.8 - 2.4 mm	WMS 2,4 (EX4)R	0800289	1
1 roll = 30 m, conductor diameter: 1.0 - 3.2 mm	WMS 3,2 (EX5)R	0800290	1
1 roll = 30 m, conductor diameter: 1.6 - 4.8 mm	WMS 4,8 (EX9)R	0800291	1
1 roll = 25 m, conductor diameter: 2.1 - 6.4 mm	WMS 6,4 (EX10)R	0800292	1
1 roll = 20 m, conductor diameter: 3.2 - 9.5 mm	WMS 9,5 (EX16)R	0800293	1
1 roll = 20 m, conductor diameter: 4.2 - 12.7 mm	WMS 12,7 (EX20)R	0800294	1
1 roll = 20 m, conductor diameter: 6.4 - 19.1 mm	WMS 19,1 (EX30)R	0800295	1
1 roll = 15 m, conductor diameter: 8.5 - 25.4 mm	WMS 25,4 (EX40)R	0800296	1
1 roll = 15 m, conductor diameter: 12.7 - 38.1 mm	WMS 38,1 (EX60)R	0800298	1
1 roll = 15 m, conductor diameter: 16.9 - 50.8 mm	WMS 50,8 (EX80)R	0800299	1
Shrink sleeve, large roll			
1 roll = 120 m, conductor diameter: 0.8 - 2.4 mm	WMS 2,4 (EX4)RL	0800319	1
1 roll = 120 m, conductor diameter: 1.0 - 3.2 mm	WMS 3,2 (EX5)RL	0800320	1
1 roll = 120 m, conductor diameter: 1.6 - 4.8 mm	WMS 4,8 (EX9)RL	0800321	1
1 roll = 100 m, conductor diameter: 2.1 - 6.4 mm	WMS 6,4 (EX10)RL	0800322	1
1 roll = 80 m, conductor diameter: 3.2 - 9.5 mm	WMS 9,5 (EX16)RL	0800324	1
1 roll = 80 m, conductor diameter: 4.2 - 12.7 mm	WMS 12,7 (EX20)RL	0800325	1
1 roll = 80 m, conductor diameter: 6.4 - 19.1 mm	WMS 19,1 (EX30)RL	0800326	1
1 roll = 60 m, conductor diameter: 8.5 - 25.4 mm	WMS 25,4 (EX40)RL	0800327	1




N
Shrinkable markers, yellow

N
Shrinkable markers, black

Technical data			Technical data		
THERMOMARK W1, THERMOMARK W2, THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2 Polyolefine -55 ... 125 DIN EN 61010-1 (VDE 0411-1) Halogen-free 3:1			THERMOMARK W1, THERMOMARK W2, THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2 Polyolefine -55 ... 125 DIN EN 61010-1 (VDE 0411-1) Halogen-free 3:1		
Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R YE	0800300	1	WMS 2,4 (EX4)R BK	0800415	1
WMS 3,2 (EX5)R YE	0800301	1	WMS 3,2 (EX5)R BK	0800416	1
WMS 4,8 (EX9)R YE	0800302	1	WMS 4,8 (EX9)R BK	0800418	1
WMS 6,4 (EX10)R YE	0800303	1	WMS 6,4 (EX10)R BK	0800419	1
WMS 9,5 (EX16)R YE	0800304	1	WMS 9,5 (EX16)R BK	0800421	1
WMS 12,7 (EX20)R YE	0800305	1	WMS 12,7 (EX20)R BK	0800422	1
WMS 19,1 (EX30)R YE	0800306	1	WMS 19,1 (EX30)R BK	0800423	1
WMS 25,4 (EX40)R YE	0800308	1	WMS 25,4 (EX40)R BK	0800424	1
WMS 38,1 (EX60)R YE	0800309	1	WMS 38,1 (EX60)R BK	0800425	1
WMS 50,8 (EX80)R YE	0800311	1	WMS 50,8 (EX80)R BK	0800426	1
WMS 2,4 (EX4)RL YE	0800328	1	WMS 2,4 (EX4)RL BK	0800427	1
WMS 3,2 (EX5)RL YE	0800329	1	WMS 3,2 (EX5)RL BK	0800428	1
WMS 4,8 (EX9)RL YE	0800330	1	WMS 4,8 (EX9)RL BK	0800429	1
WMS 6,4 (EX10)RL YE	0800331	1	WMS 6,4 (EX10)RL BK	0800430	1
WMS 9,5 (EX16)RL YE	0800332	1	WMS 9,5 (EX16)RL BK	0800431	1
WMS 12,7 (EX20)RL YE	0800333	1	WMS 12,7 (EX20)RL BK	0800432	1
WMS 19,1 (EX30)RL YE	0800334	1	WMS 19,1 (EX30)RL BK	0800434	1
WMS 25,4 (EX40)RL YE	0800335	1	WMS 25,4 (EX40)RL BK	0800435	1

Conductor and cable marking

Continuous shrink sleeves, labeled according to customer requirements

All WMS ... continuous shrink sleeves can also be supplied labeled according to customer requirements.

The following standards are met:

- UL 224 (125°C, 600 V, VW-1)
- CSA.C22.2 No. 198.1 (125°C, 600 V, VW-1)
- MIL-STD-202G, SAE AMS-DTL-23053, SAE AS-81531

N



Shrinkable markers, white

Notes:

¹⁾ For ordering example, see page 243.

General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	
Shrink rate	

Technical data

Polyolefine
-55 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Description

Shrink sleeve, labeled according to customer specifications¹⁾
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

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R CUS	0800701	1
WMS 3,2 (EX5)R CUS	0800702	1
WMS 4,8 (EX7,5)R CUS	0800703	1
WMS 6,4 (EX10)R CUS	0800704	1
WMS 9,5 (EX15)R CUS	0800706	1
WMS 12,7 (EX20)R CUS	0800707	1
WMS 19,1 (EX30)R CUS	0800708	1
WMS 25,4 (EX40)R CUS	0800709	1
WMS 38,1 (EX60)R CUS	0800710	1
WMS 50,8 (EX80)R CUS	0800711	1


N
Shrinkable markers, yellow

N
Shrinkable markers, black
Technical data

Polyolefine
-55 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Technical data

Polyolefine
-55 ... 125
DIN EN 61010-1 (VDE 0411-1)
Halogen-free
3:1

Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R YE CUS	0800713	1
WMS 3,2 (EX5)R YE CUS	0800714	1
WMS 4,8 (EX7,5)R YE CUS	0800715	1
WMS 6,4 (EX10)R YE CUS	0800716	1
WMS 9,5 (EX15)R YE CUS	0800717	1
WMS 12,7 (EX20)R YE CUS	0800719	1
WMS 19,1 (EX30)R YE CUS	0800720	1
WMS 25,4 (EX40)R YE CUS	0800722	1
WMS 38,1 (EX60)R YE CUS	0800723	1
WMS 50,8 (EX80)R YE CUS	0800724	1

Ordering data

Type	Order No.	Pcs. / Pkt.
WMS 2,4 (EX4)R BK CUS	0800725	1
WMS 3,2 (EX5)R BK CUS	0800726	1
WMS 4,8 (EX7,5)R BK CUS	0800727	1
WMS 6,4 (EX10)R BK CUS	0800728	1
WMS 9,5 (EX15)R BK CUS	0800729	1
WMS 12,7 (EX20)R BK CUS	0800730	1
WMS 19,1 (EX30)R BK CUS	0800731	1
WMS 25,4 (EX40)R BK CUS	0800732	1
WMS 38,1 (EX60)R BK CUS	0800733	1
WMS 50,8 (EX80)R BK CUS	0800735	1

MARKING system

Conductor and cable marking

Insertable conductor marking for marking collars



- EMT ... insert labels for labeling 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
- PABL ... sheets are available for labeling with a laser printer

Notes:
PATG/PATO ... system, see page 190.
KMK ..., see page 176.
LM ..., see page 178.

Can be printed with:



Thermal transfer for rolls



For PATG ... and PATO ... marker carriers

General data

Can be printed with:

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

Polyester

-40 ... 100

DIN EN 61010-1 (VDE 0411-1)

Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips , lettering field size: 10 x 4 mm, 7500 labels p. roll				
Lettering field size: 15 x 4 mm, 7500 labels p. roll	white	EMT (10X4)R	0816235	1
	white	EMT (15X4)R	0817329	1
Lettering field size: 23 x 4 mm, 5000 labels p. roll	red	EMT (15X4)R RD	0816249	1
	yellow	EMT (15X4)R YE	0817358	1
	blue	EMT (15X4)R BU	0817332	1
	white	EMT (23X4)R	0817361	1
	white	EMT (23X4)R YE	0817374	1
Lettering field size: 24 x 4 mm	white	EMT (24X4)R	0816265	1
Lettering field size: 29 x 8 mm, 5400 labels p. roll	white	EMT (29X8)R	0817277	1
Lettering field size: 29 x 8 mm	yellow	EMT (29X8)R YE	0817280	1
Lettering field size: 40 x 17 mm, 2300 labels p. roll	white	EMT (40X17)R	0817293	1
Insert strips , for PATG/PATO, perforated, A4 sheet, lettering field size: 15 x 4 mm, 1 sheet = 488 labels				
	white	PABL 15X4	0808260	10



Insertable conductor marking for marking collars, labeled acc. to customer specifications

– All EMT ... insert strips for marking collars can also be supplied labeled according to customer requirements

Notes:
PATG/PATO ... system, see page 190.
KMK ..., see page 176.
LM ..., see page 178.
1) For ordering example, see page 243.



For PATG ... and PATO ... marker carriers

General data		Technical data		
Material		Polyester		
Temperature range	[°C]	-40 ... 100		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone and halogen-free		
Description		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips, labeled acc. to customer specifications¹⁾				
Lettering field size: 10 x 4 mm, 6 labels p. strip	white	EMT (10X4)R CUS	0824374	1
Lettering field size: 15 x 4 mm, 6 labels p. strip	white	EMT (15X4)R CUS	0824375	1
	red	EMT (15X4)R RD CUS	0824377	1
	yellow	EMT (15X4)R YE CUS	0824378	1
	blue	EMT (15X4)R BU CUS	0824376	1
Lettering field size: 23 x 4 mm, 4 labels p. strip	white	EMT (23X4)R CUS	0824379	1
	yellow	EMT (23X4)R YE CUS	0824380	1
Lettering field size: 24 x 4 mm, 4 labels p. strip	white	EMT (24X4)R CUS	0824381	1
Lettering field size: 29 x 8 mm, 3 labels p. strip	white	EMT (29X8)R CUS	0824383	1
	yellow	EMT (29X8)R YE CUS	0824384	1
Lettering field size: 40 x 17 mm, 3 labels p. strip	white	EMT (40X17)R CUS	0824385	1
Insert strips, for PATG/PATO, perforated, labeled acc. to customer specifications¹⁾				
	white	PABL 15X4 CUS	0824449	1

Slide-on conductor marking

Can be printed with:



Thermal transfer for rolls



Markers for conductor diameters of 1.0 to 8.4 mm



- 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 labeling and easy handling
- High-quality labeling image created by thermal transfer printing
- Special packaging protects the conductor markers against external influences, dust, and dirt
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 243.

General data

Can be printed with:

Number of individual labels

Material

Temperature range

Wipe resistance

Components

[°C]

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

4000

Polyester

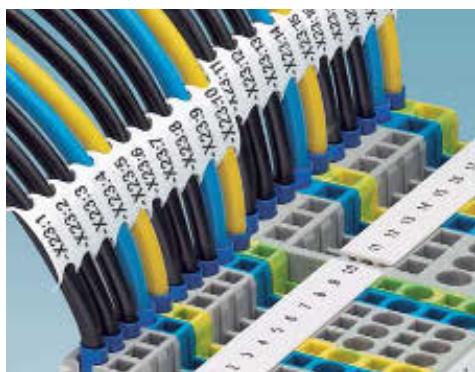
-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Silicone and halogen-free

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
Slide-on conductor markers, labeled acc. to customer specifications¹⁾				
Lettering field size: 15 x 4 mm, conductor diameter: 1.0 - 2.4 mm, 3 labels p. strip	white	WMT 2,4 (15X4)R CUS	0824927	1
Lettering field size: 15 x 5 mm, conductor diameter: 2.0 - 3.5 mm, 3 labels p. strip	white	WMT 3,5 (15X5)R CUS	0824928	1
Lettering field size: 15 x 6 mm, conductor diameter: 3.0 - 4.2 mm, 2 labels p. strip	white	WMT 4,2 (15X6)R CUS	0824929	1
Lettering field size: 15 x 8 mm, conductor diameter: 4.0 - 5.5 mm, 2 labels p. strip	white	WMT 5,5 (15X8)R CUS	0824930	1
Lettering field size: 17 x 10 mm, conductor diameter: 5.0 - 8.4 mm, 2 labels p. strip	white	WMT 8,4 (17X10)R CUS	0824931	1



Conductor marking for cable binder assembly

Can be printed with:



Thermal transfer for rolls



Markers 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
- Labeling service: Phoenix Contact can custom-label all conductor markers in accordance with your requirements

Notes:
Matching cable binders, see page 382.
1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1	
Polyester	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Silicone and halogen-free	

Description	Color
Cable markers for assembly with cable binders	
Lettering field size: 24 x 8 mm (max. cable binder width: 5 mm), 4000 cable markers p. roll	white
Lettering field size: 35 x 15 mm (max. cable binder width: 5 mm), 1700 cable markers p. roll	white
Cable markers for assembly with cable binders, labeled acc. to customer specifications 1)	
Lettering field size: 24 x 8 mm (max. cable binder width: 5 mm), 4 labels p. strip	white
Lettering field size: 35 x 15 mm (max. cable binder width: 5 mm), 2 labels p. strip	white

Ordering data		
Type	Order No.	Pcs. / Pkt.
WMTB (24X8)R	0816278	1
WMTB (35X15)R	0817316	1
WMTB (24X8)R CUS	0824932	1
WMTB (35X15)R CUS	0824933	1



Plastic cable markers for insert labels

Notes:
Matching cable binders, see page 382.
¹⁾ For ordering example, see page 243.



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- The KMK 2 and KMK 4 versions have eyelets. They are fastened to the cable with PKB ... cable binders.
- Labeling service: Phoenix Contact can custom-label all insert labels for plastic cable markers in accordance with your requirements



For insert labels measuring 29 x 8 mm

General data	
Material	
Temperature range	[°C]
Components	

Technical data

Polyethylene
-40 ... 80
Silicone and halogen-free

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

Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled 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 eyelets for fastening PKB cable binders, can be labeled with ESL..., EMT... or US-EMP... insert labels, lettering field size: 29 x 8 mm

transparent

Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm

transparent

Plastic cable markers for insert labels, with eyelets for fastening with PKB cable binders, can be labeled with ESL..., EMT... or US-EMP... insert labels, lettering field size: 40 x 17 mm

transparent

Insert strips for laser printers, can also be labeled with B-STIFT, X-PEN or plotter, A4, perforated, 1 sheet = 174 labels, lettering field size: 29 x 8 mm

Insert strips for laser printers, A4, perforated, 1 sheet = 174 labels, lettering field size: 29 x 8 mm, **labeled acc. to customer specifications¹⁾**

Insert strips for laser printers, perforated, 1 sheet = 56 labels, lettering field size: 40 x 17 mm

Insert strips for laser printers, perforated, 1 sheet = 56 labels, lettering field size: 40 x 17 mm, **labeled acc. to customer specifications¹⁾**

Lettering field size: 40 x 17 mm

Insert labels for thermal transfer printers

Lettering field size: 29 x 8 mm, 5400 labels p. roll

Lettering field size: 40 x 17 mm, 2300 labels p. roll

Insert strips, labeled acc. to customer specifications¹⁾

Lettering field size: 29 x 8 mm, 3 labels p. strip

Lettering field size: 40 x 17 mm, 3 labels p. strip

UniSheet, just 0,5 mm thick

48-section, lettering field size: 29 x 8 mm

white

16-section, lettering field size: 40 x 17 mm

white

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK	1005208	100

Accessories

ESL 29X 8	0808257	10
ESL 29X 8 CUS	0824401	1
EMT (29X8)R	0817277	1
EMT (29X8)R CUS	0824383	1
US-EMP (29X8)	0829436	10





29 x 8 mm markers



For insert labels measuring 40 x 17 mm



40 x 17 mm markers

Technical data		
Polyethylene		
-40 ... 80		
Silicone and halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KMK 2	1005266	100
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Technical data		
Polyethylene		
-40 ... 80		
Silicone and halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KMK 3	1005211	50
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Technical data		
Polyethylene		
-40 ... 80		
Silicone and halogen-free		

Ordering data		
Type	Order No.	Pcs. / Pkt.

KMK 4	1005305	50
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Accessories

ESL 29X 8	0808257	10
ESL 29X 8 CUS	0824401	1
EMT (29X8)R	0817277	1
EMT (29X8)R CUS	0824383	1
US-EMP (29X8)	0829436	10

Accessories

ESL 40X17	0808095	10
ESL 40X17 CUS	0824403	1
EMT (40X17)R	0817293	1
EMT (40X17)R CUS	0824385	1
US-EMP (40X17)	0829437	10

Accessories

ESL 40X17	0808095	10
ESL 40X17 CUS	0824403	1
EMT (40X17)R	0817293	1
EMT (40X17)R CUS	0824385	1
US-EMP (40X17)	0829437	10

MARKING system

Conductor and cable marking

Conductor and cable markers with molded cable binders



- The polyamide conductor and cable marker can be used as a universal marking label for conductor and cable bundles indoors
- The products can be labeled by hand with a marker pen or by applying a printed label

General data	
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

Description	Color
Cable and conductor markers for labels , lettering field size: 20 x 8 mm	white

Textile labels , lettering field size: 20 x 8 mm 2500 labels per roll	white
Labels for thermal transfer printer 2500 labels per roll	white
Markers 500 markers per roll	white



For adhesive labels, conductor diameter of up to 20 mm

Technical data

Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

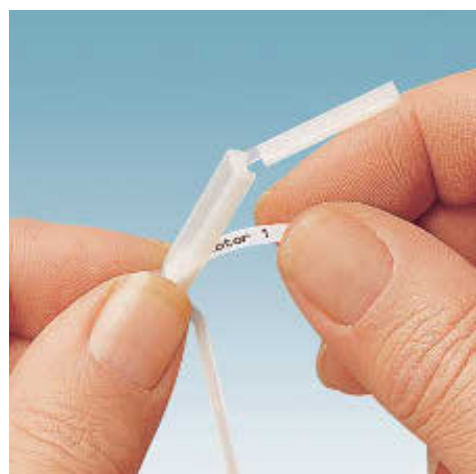
Ordering data

Type	Order No.	Pcs. / Pkt.
KME	0807083	50

Accessories

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1
EMLP (20X8)R	0819482	1

Conductor and cable markers with molded cable binders



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- An insert label is placed inside the sealing cap to protect the labeling against dirt

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

Description	Color
Cable and conductor markers for insert labels , can be labeled with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	white

Insert strips for laser printers , perforated, A4 sheet, 1 sheet = 488 labels Lettering field size: 24 x 4 mm	white
Insert strips for thermal transfer printers , 5000 labels p. roll Lettering field size: 24 x 4 mm	white



For insert labels, 12 mm conductor diameter

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

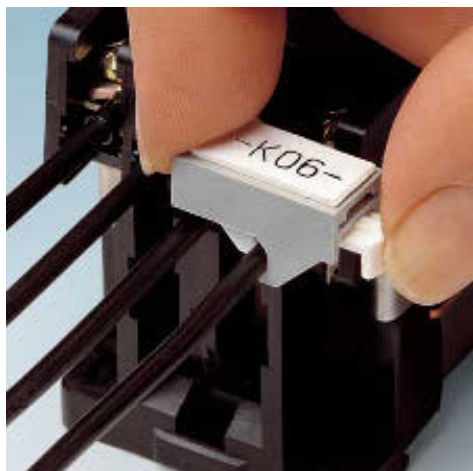
Ordering data

Type	Order No.	Pcs. / Pkt.
LM	1004377	100

Accessories

ESL 24X 4	0808231	10
EMT (24X4)R	0816265	1

Clip-on conductor marking



- The conductor marker is attached directly to a conductor
- SS-ZB ..., UC-TM ... or ZB ... can be used for labeling purposes



Conductor diameter of 0 to 11 mm

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

Technical data		
Material	PA/ABS	
Inflammability class	V2	
Temperature range	-40 ... 80	
Components	Silicone and halogen-free	

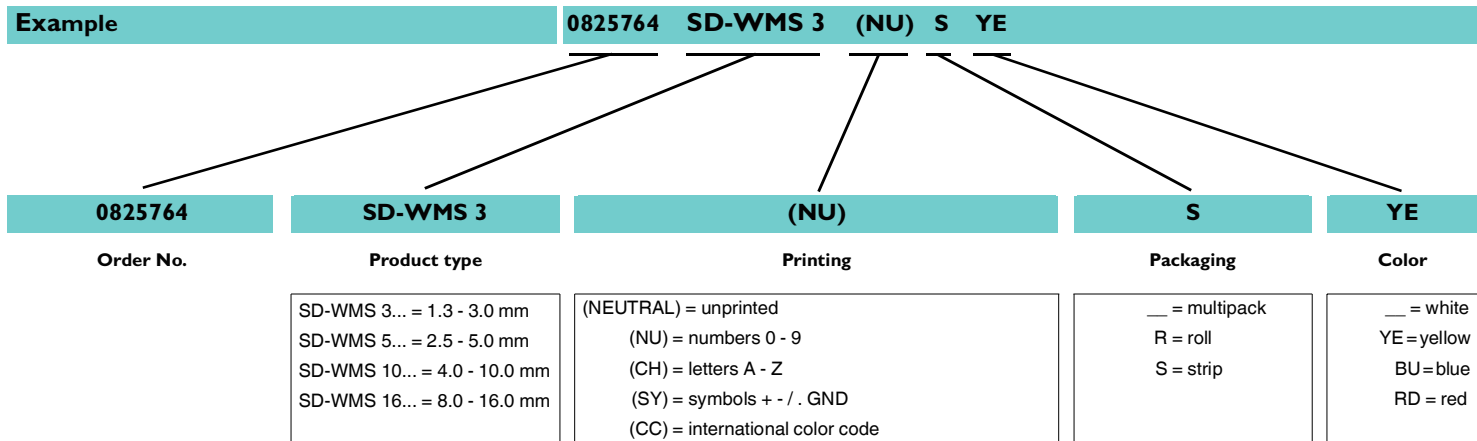
Description	Color
Conductor markers , lettering field size: 20 x 8 mm	
For conductor diameters of 0 - 5.2 mm	gray
For conductor diameters of 4.8 - 11 mm	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
GKM 1 GY	1750498	100
GKM 2 GY	1750485	100

Marker tags, 5-section, unprinted, labeling with X-PEN, M-PEN, plotter or BMKT 20 x 8 label	
Lettering field size: 20 x 8 mm	white
Lettering field size: 20 x 8 mm	yellow

Accessories		
Type	Order No.	Pcs. / Pkt.
SS-ZB WH	5031171	50
SS-ZB YE	5031650	50

Type key for SD-WMS ...



International color code



Imprint	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

Conductor marking with individual marking collars



- Easy and reliable conductor labeling with the SD-WMS ... conductor marking collars
- Multi-character labels can be created by combining several pre-labeled individual collars
- Supplied loose in a bag

Ordering example:

Yellow marker for a conductor diameter of 3.0 mm, printed with the number 5
 Order number: Number
 0825544: 5



Conductor diameter of 1.3 to 3 mm

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and cadmium-free

Technical data	
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Description	Color
Conductor marking collar, printed horizontally, for diameters: 1.3 mm - 3.0 mm	
Unprinted	white
	yellow
Printed: With numbers 0 - 9	white
	yellow
Printed: With upper case letters A - Z	white
	yellow
Printed: With symbols + - / . GND	white
	yellow
Printed: With - character	blue
Printed: With + character	red

Ordering data		
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Type	Order No.	Pcs. / Pkt.
SD-WMS 3 (NEUTRAL)	0825612	200
SD-WMS 3 (NEUTRAL) YE	0825573	200
SD-WMS 3 (NU)	0825586	200
SD-WMS 3 (NU) YE	0825544	200
SD-WMS 3 (CH)	0825599	200
SD-WMS 3 (CH) YE	0825557	200
SD-WMS 3 (SY)	0825609	200
SD-WMS 3 (SY) YE	0825560	200
SD-WMS 3 (SY) BU	0825625	200
SD-WMS 3 (SY) RD	0825638	200

Threading pin, facilitates the threading of SD-WMS... on the conductor	
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Accessories		
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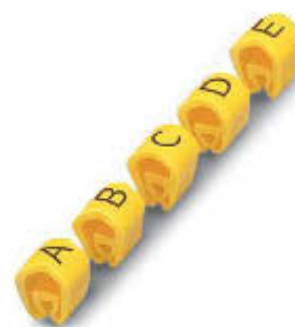
SD-WMS 3 TOOL	0826462	1
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MARKING system

Conductor and cable marking

Conductor marking with individual marking collars



Conductor diameter of 2.5 to 5 mm

- Easy and reliable conductor labeling with the SD-WMS ... conductor marking collars
- Multi-character labels can be created by combining several pre-labeled individual collars
- Supplied loose in a bag

Ordering example:

White marker for a conductor diameter of 5.0 mm, printed with the letter A
 Order number: Letter
 0825887: A

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and cadmium-free

Technical data

Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and cadmium-free

Description	Color
Conductor marking collar, printed horizontally, for diameters: 2.5 mm - 5.0 mm	
Unprinted	white
Printed: With numbers 0 - 9	yellow
Printed: With upper case letters A - Z	white
Printed: With symbols + - / . GND	yellow
Printed: With - character	white
Printed: With + character	red
Conductor marking collar, printed horizontally, for diameters: 4.0 mm - 10.0 mm	
Unprinted	white
Printed: With numbers 0 - 9	yellow
Printed: With upper case letters A - Z	white
Printed: With symbols + - / . GND	yellow
Printed: With - character	white
Printed: With + character	red
Conductor marking collar, printed horizontally, for diameters: 8.0 mm - 16.0 mm	
Unprinted	white
Printed: With numbers 0 - 9	yellow
Printed: With upper case letters A - Z	white
Printed: With symbols + - / . GND	yellow
Printed: With - character	white
Printed: With + character	red

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-WMS 5 (NEUTRAL)	0828900	200
SD-WMS 5 (NEUTRAL) YE	0825861	200
SD-WMS 5 (NU)	0825874	200
SD-WMS 5 (NU) YE	0825832	200
SD-WMS 5 (CH)	0825887	200
SD-WMS 5 (CH) YE	0825845	200
SD-WMS 5 (SY)	0825890	200
SD-WMS 5 (SY) YE	0825858	200
SD-WMS 5 (SY) BU	0828913	200
SD-WMS 5 (SY) RD	0828926	200

Accessories

Threading pin , facilitates the threading of SD-WMS... on the conductor

SD-WMS 5 TOOL	0826475	1
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Conductor diameter of 4 to 10 mm



Conductor diameter of 8 to 16 mm

Technical data

PVC
V0
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Silicone and cadmium-free

Ordering data

Type	Order No.	Pcs. / Pkt.
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SD-WMS 10 (NEUTRAL)	0826200	100
SD-WMS 10 (NEUTRAL) YE	0826158	100
SD-WMS 10 (NU)	0826161	100
SD-WMS 10 (NU) YE	0826129	100
SD-WMS 10 (CH)	0826174	100
SD-WMS 10 (CH) YE	0826132	100
SD-WMS 10 (SY)	0826187	100
SD-WMS 10 (SY) YE	0826145	100
SD-WMS 10 (SY) BU	0826213	100
SD-WMS 10 (SY) RD	0826226	100

Accessories

SD-WMS 5 TOOL	0826475	1
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Technical data

PVC
V0
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Silicone and cadmium-free

Ordering data

Type	Order No.	Pcs. / Pkt.
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SD-WMS 16 (NEUTRAL)	0826420	20
SD-WMS 16 (NEUTRAL) YE	0826381	20
SD-WMS 16 (NU)	0826394	20
SD-WMS 16 (NU) YE	0826352	20
SD-WMS 16 (CH)	0826404	20
SD-WMS 16 (CH) YE	0826365	20
SD-WMS 16 (SY)	0826417	20
SD-WMS 16 (SY) YE	0826378	20
SD-WMS 16 (SY) BU	0826433	20
SD-WMS 16 (SY) RD	0826446	20

Accessories

SD-WMS 5 TOOL	0826475	1
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MARKING system

Conductor and cable marking

Conductor marking with individual marking collars on roll



- Easy and reliable conductor labeling with the SD-WMS ... conductor marking collars
- Multi-character labels can be created by combining several pre-labeled individual collars
- Supplied in rolls

Ordering example:

Yellow marker for a conductor diameter of 3.0 mm, printed with the grounding symbol

Order number: Symbol
0825670: GND



Conductor diameter of 1.3 to 3 mm

General data

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

Technical data

PVC
V0
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Silicone and cadmium-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Conductor marking collar, printed horizontally, for diameters: 1.3 mm - 3.0 mm				
Unprinted	yellow	SD-WMS 3 (NEUTRAL)R YE	0825683	500
Printed: With numbers 0 - 9	yellow	SD-WMS 3 (NU)R YE	0825654	500
Printed: With upper case letters A - Z	yellow	SD-WMS 3 (CH)R YE	0825667	500
Printed: With symbols + - / . GND	yellow	SD-WMS 3 (SY)R YE	0825670	500
Printed: With - character	blue	SD-WMS 3 (SY)R BU	0825735	500
Printed: With + character	red	SD-WMS 3 (SY)R RD	0825748	500
Conductor marking collar, printed horizontally, for diameters: 2.5 mm - 5.0 mm				
Unprinted	yellow			
Printed: With numbers 0 - 9	yellow			
Printed: With upper case letters A - Z	yellow			
Printed: With symbols + - / . GND	yellow			
Printed: With - character	blue			
Printed: With + character	red			
Conductor marking collar, printed horizontally, for diameters: 4.0 mm - 10.0 mm				
Unprinted	yellow			
Printed: With numbers 0 - 9	yellow			
Printed: With upper case letters A - Z	yellow			
Printed: With symbols + - / . GND	yellow			
Printed: With - character	blue			
Printed: With + character	red			

Accessories

Threading pin , facilitates the threading of SD-WMS... on the conductor		
Metal box , for storage and as magazine for SD-WMS ...R rolls		
SD-WMS 3 TOOL	0826462	1
SD-WMS CASE	0826501	1





Conductor diameter of 2.5 to 5 mm



Conductor diameter of 4 to 10 mm

Technical data

PVC
V0
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Silicone and cadmium-free

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-WMS 5 (NEUTRAL)R YE	0825971	500
SD-WMS 5 (NU)R YE	0825942	500
SD-WMS 5 (CH)R YE	0825955	500
SD-WMS 5 (SY)R YE	0825968	500
SD-WMS 5 (SY)R BU	0826022	500
SD-WMS 5 (SY)R RD	0826035	500

Accessories

SD-WMS 5 TOOL	0826475	1
SD-WMS CASE	0826501	1

Technical data

PVC
V0
-30 ... 60
DIN EN 61010-1 (VDE 0411-1)
Silicone and cadmium-free

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-WMS 10 (NEUTRAL)R YE	0826271	250
SD-WMS 10 (NU)R YE	0826242	250
SD-WMS 10 (CH)R YE	0826255	250
SD-WMS 10 (SY)R YE	0826268	250
SD-WMS 10 (SY)R BU	0826323	250
SD-WMS 10 (SY)R RD	0826336	250

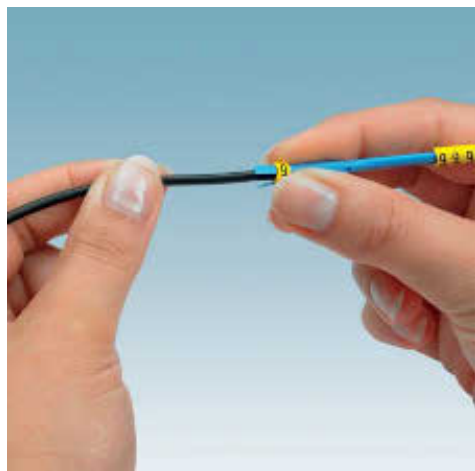
Accessories

SD-WMS 5 TOOL	0826475	1
SD-WMS CASE	0826501	1

MARKING system

Conductor and cable marking

Conductor marking with individual marking collars on a strip



- Easy and reliable conductor labeling with the SD-WMS ... conductor marking collars
- Multi-character labels can be created by combining several pre-labeled individual collars
- Supplied on a strip so they can be easily threaded onto conductors

Ordering example:

Yellow marker for a conductor diameter of 3.0 mm, printed with the letter A
 Order number: Letter
0825777: A



Conductor diameter of 1.3 to 3 mm

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-30 ... 60 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and cadmium-free

Technical data

Description	Color
Conductor marking collar, printed horizontally, for diameters: 1.3 mm - 3.0 mm	
Unprinted	yellow
Printed: With numbers 0 - 9	yellow
Printed: With upper case letters A - Z	yellow
Printed: With symbols + - / . GND	yellow
Printed: With - character	blue
Printed: With + character	red
Conductor marking collar, printed horizontally, for diameters: 2.5 mm - 5.0 mm	
Unprinted	yellow
Printed: With numbers 0 - 9	yellow
Printed: With upper case letters A - Z	yellow
Printed: With symbols + - / . GND	yellow
Printed: With - character	blue
Printed: With + character	red

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-WMS 3 (NEUTRAL)S YE	0825793	250
SD-WMS 3 (NU)S YE	0825764	250
SD-WMS 3 (CH)S YE	0825777	250
SD-WMS 3 (SY)S YE	0825780	250
SD-WMS 3 (SY)S BU	0825803	250
SD-WMS 3 (SY)S RD	0825816	250

Magazine, for accommodating SD-WMS... S...

Accessories

SD-WMS 3 STRIP-MAG	0826488	1
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Conductor diameter of 2.5 to 5 mm

Technical data

PVC
 V0
 -30 ... 60
 DIN EN 61010-1 (VDE 0411-1)
 Silicone and cadmium-free

Ordering data

Type	Order No.	Pcs. / Pkt.
SD-WMS 5 (NEUTRAL)S YE	0826080	250
SD-WMS 5 (NU)S YE	0826051	250
SD-WMS 5 (CH)S YE	0826064	250
SD-WMS 5 (SY)S YE	0826077	250
SD-WMS 5 (SY)S BU	0826093	250
SD-WMS 5 (SY)S RD	0826103	250

Accessories

SD-WMS 5 STRIP-MAG	0826491	1
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MARKING system

Conductor and cable marking

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

Ordering example:

Red marker for a label holder, printed with the international color code 2
 Order number: Color code
 0826527: 2

Notes:
The label holder is secured using PKB ... cable binders, see page 382
¹⁾ For ordering example, see page 180.



Conductor 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	Silicone and cadmium-free

Technical 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	Silicone and cadmium-free

Description	Color
Cable markers¹⁾	
Unprinted	yellow
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 0 - 9	yellow
Label holders	
For max. 7 characters	black
For max. 13 characters	black

Ordering data

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

Cable binders, transparent	
Bundle Ø: 1.5 - 22 mm, tensile strength 80 N	transparent
Bundle Ø: 1.5 - 35 mm, tensile strength 178 N	transparent
Bundle Ø: 1.5 - 48 mm, tensile strength 222 N	transparent
Bundle Ø: 1.5 - 50 mm, tensile strength 80 N	transparent
Bundle Ø: 1.5 - 76 mm, tensile strength 222 N	transparent
Bundle Ø: 1.5 - 102 mm, tensile strength 222 N	transparent
Cable binders, resistant to UV rays, black	
Bundle Ø: 1.5 - 22 mm, tensile strength 80 N	black
Bundle Ø: 1.5 - 35 mm, tensile strength 178 N	black
Bundle Ø: 1.5 - 48 mm, tensile strength 222 N	black
Bundle Ø: 1.5 - 50 mm, tensile strength 80 N	black
Bundle Ø: 1.5 - 76 mm, tensile strength 222 N	black
Bundle Ø: 1.5 - 102 mm, tensile strength 222 N	black

Accessories

PKB	Order No.	1000
PKB 100X2,5	1005457	1000
PKB 140X3,6	1005460	1000
PKB 190X4,8	1005473	1000
PKB 200X2,5	1005486	1000
PKB 290X4,8	1005499	1000
PKB 370X4,8	1005509	1000
PKB 100X2,5 BK	1005512	1000
PKB 140X3,6 BK	1005525	1000
PKB 190X4,8 BK	1005538	1000
PKB 200X2,5 BK	1005541	1000
PKB 290X4,8 BK	1005554	1000
PKB 370X4,8 BK	1005567	1000



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



High-grade steel markers with carrier



High-grade steel plate

Notes:
 1) For ordering example, see page 180.

General data		Technical data			Technical data		
Material		High-grade steel			High-grade steel		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cable markers¹⁾							
Unprinted		SD-WMTBS (NEUTRAL) VA	0826666	50			
Printed: With numbers 0 - 9		SD-WMTBS (NU) VA	0826556	50			
Printed: With upper case letters A - Z		SD-WMTBS (CH) VA	0826640	50			
Printed: With symbols + - / . GND		SD-WMTBS (SY) VA	0826653	50			
Label holders							
For max. 6 characters		SD-WMTB (30X10) VA	0826569	50			
For max. 9 characters		SD-WMTB (47X10) VA	0826572	50			
For max. 13 characters		SD-WMTB (70X10) VA	0826585	50			
For max. 17 characters		SD-WMTB (92X10) VA	0826598	50			
For max. 20 characters		SD-WMTB (111X10) VA	0826608	50			
Steel cable markers , rustproof, non-magnetic, label size: 89 x 19 mm, lettering field size: 65 x 19 mm							
	silver				KMV	0806644	100
Lasered acc. to customer specifications					KMV CUS	0828493	1
Steel cable markers , rustproof, non-magnetic, label size: 44 x 9.6 mm, lettering field size: 23 x 9 mm							
	silver				KMV 44X9,6	0812007	100
Lasered acc. to customer specifications					KMV 44X9,6 CUS	0828494	1
	silver						
Steel cable binders, rustproof, non-magnetic		Accessories			Accessories		
Dimensions: 130 x 4.6 mm		PKBV 130X4,6	0806657	100	PKBV 130X4,6	0806657	100
Dimensions: 200 x 4.6 mm		PKBV 200X4,6	0806660	100	PKBV 200X4,6	0806660	100





- 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 ..., US-WMT ..., and EMT ... insert labels are used for marking



Closed marker carrier, for sliding on

General data

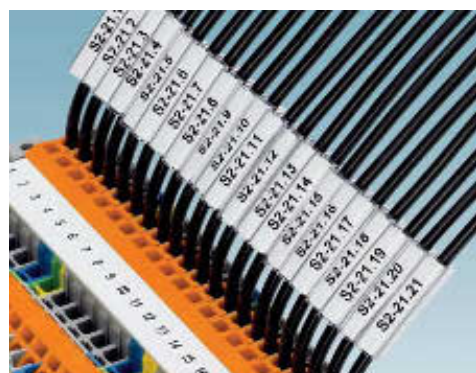
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-50 ... 80 [°C]
Components	Silicone-free

Technical data

Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-50 ... 80 [°C]
Components	Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Wire 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 diameter: 2.0 - 4.0 mm	transparent	PATG 2/10	1013818	1000
Conductor diameter: 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 diameter: 2.0 - 4.0 mm	transparent	PATG 2/12	0827078	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/12	0827079	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/12	0827080	500
Wire 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 diameter: 2.0 - 4.0 mm	transparent	PATG 2/15	1013038	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/15	1013041	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/15	1013054	500
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/15	1013067	200
Conductor diameter: 14.0 - 22.0 mm	transparent	PATG 6/15	1013070	200
Conductor diameter: 22.0 - 30.0 mm	transparent	PATG 7/15	1013083	50
Conductor diameter: 30.0 - 35.0 mm	transparent	PATG 8/15	1013096	50
Conductor diameter: 35.0 - 50.0 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 diameter: 2.0 - 4.0 mm	transparent	PATG 2/18	0820523	1000
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/18	0820536	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/18	0820549	500
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/18	0828059	1000
Conductor diameter: 14.0 - 22.0 mm	transparent	PATG 6/18	0828062	1000
Wire marker carrier, closed, 23 mm wide				
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/23	1013847	1000
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/23	1013850	500
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/23	1013863	500
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/23	0808011	200
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/23	0808024	200
Conductor diameter: 14.0 - 22.0 mm	transparent	PATG 6/23	0808037	100
Conductor diameter: 22.0 - 30.0 mm	transparent	PATG 7/23	0808040	50
Conductor diameter: 30.0 - 35.0 mm	transparent	PATG 8/23	0808053	50
Wire marker carrier, closed, 30 mm wide				
Conductor diameter: 1.5 - 2.5 mm	transparent	PATG 1/30	0822440	500
Conductor diameter: 2.0 - 4.0 mm	transparent	PATG 2/30	0822453	500
Conductor diameter: 4.0 - 7.0 mm	transparent	PATG 3/30	0822466	200
Conductor diameter: 6.0 - 10.0 mm	transparent	PATG 4/30	0822479	200
Conductor diameter: 10.0 - 14.0 mm	transparent	PATG 5/30	0822482	200



Marking collars for insert labels

- Can be labeled using UC-WMT ..., US-WMT ... plastic labels or EMT ... insert strips

PATO ...

- These marking collars are used for subsequent labeling of systems that have already been wired

PAB-KTL ...

- Marking collars for identifying and bundling conductors



Open marker carrier, for clipping on



For assembly with cable binders

		Technical data			Technical data		
General data							
Material		PVC			PVC		
Inflammability class according to UL 94		V0			V0		
Temperature range	[°C]	-50 ... 80			-50 ... 80		
Components		Silicone-free			Silicone-free		
		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Wire marker carrier, open, 10 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/10	1013876	1000			
Conductor diameter: 2.8 - 5.0 mm	transparent	PATO 2/10	1013889	1000			
Wire marker carrier, open, 12 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/12	0827081	1000			
Conductor diameter: 2.8 - 5.0 mm	transparent	PATO 2/12	0827082	1000			
Wire marker carrier, open, 15 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/15	1013119	1000			
Conductor diameter: 2.8 - 5.0 mm	transparent	PATO 2/15	1013122	1000			
Conductor diameter: 5.0 - 8.0 mm	transparent	PATO 3/15	1013135	500			
Conductor diameter: 8.0 - 10.0 mm	transparent	PATO 4/15	1013148	500			
Wire marker carrier, open, 18 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/18	0823740	500			
Conductor diameter: 2.8 - 5.0 mm	transparent	PATO 2/18	0823753	500			
Wire marker carrier, open, 23 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/23	1013892	500			
Conductor diameter: 2.8 - 5.0 mm	transparent	PATO 2/23	1013902	500			
Wire marker carrier, open, 30 mm wide							
Conductor diameter: 2.0 - 3.5 mm	transparent	PATO 1/30	0822495	500			
Conductor diameter: 2.8 - 5.0 mm	transparent	PATO 2/30	0822505	500			
Cable marker carrier, lettering field along the length of cable, labeling with UC-WMT and PABA..., lettering field: 30 x 4 mm, secured with PKB cable binder							
	transparent				PAB-KTL	1013261	200
Lettering field size: 23 x 4 mm, labeling with UC-WMT and PABA.../23	transparent				PAB-KTL 23	1013957	200
Plastic cable marker for PKE insert label, can be labeled with PKE insert label, lettering field: 9 mm x 20 mm, with eyelets for fastening to PKB cable binders							
	transparent				PKT 9X20	0803977	240



MARKING system – Device marking

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 offers a wide range of different markers for device marking. From adhesive labels to high-quality engraving labels, the wide marker range caters for every application. We offer a variety of printing systems for labeling or engraving.

Product range overview

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Explicit marking of electrical and electronic control cabinet components is essential for safe and efficient work. As with comprehensive technical documentation, labeling 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 offers a wide range of labels and tags. Depending on the type, they can be labeled using BLUEMARK, thermal transfer printers, plotters, engraving devices, commercially available desktop laser printers or by hand.

For the BLUEMARK, there is a complete range of plastic labels available for control cabinets, as well as for buttons and switching devices.

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 offers a comprehensive engraving and labeling 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 labeling system is the perfect choice for labeling 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 labeled 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 labeling devices and modules. The carriers can be stuck onto all standard surfaces.

Can be printed with:



BLUEMARK



Plotter



Unlabeled

- The UC-EMLP ... UniCard labeling range includes self-adhesive device markers with good adhesive properties
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning 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 for including function texts

General data

Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Description	Color
UniCard , with self-adhesive plastic labels, can be labeled with BLUEMARK and CMS-P1-PLOTTER	
10-section, 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
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 yellow silver
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 (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) YE	0827904	10
UC-EMLP (49X15) SR	0827905	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

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6	5146121	1
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UniCard stick-on device marking



– All UC-EMLP ... self-adhesive device markers can also be supplied labeled according to customer requirements

Notes:
 1) For ordering example, see page 243.



Labeled according to customer specifications

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, with self-adhesive plastic labels, labeled according to customer specifications¹⁾				
10-section, lettering field size: 11 x 9 mm	white	UC-EMLP (11X9) CUS	0824547	1
	yellow	UC-EMLP (11X9) YE CUS	0824548	1
	silver	UC-EMLP (11X9) SR CUS	0828098	1
10-section, lettering field size: 15 x 5 mm	white	UC-EMLP (15X5) CUS	0824550	1
	yellow	UC-EMLP (15X5) YE CUS	0824551	1
	silver	UC-EMLP (15X5) SR CUS	0828099	1
10-section, lettering field size: 17 x 9 mm	white	UC-EMLP (17X9) CUS	0824553	1
	yellow	UC-EMLP (17X9) YE CUS	0824554	1
	silver	UC-EMLP (17X9) SR CUS	0828100	1
10-section, lettering field size: 17 x 15 mm	white	UC-EMLP (17X15) CUS	0827941	1
	silver	UC-EMLP (17X15) SR CUS	0827942	1
	yellow	UC-EMLP (17X15) YE CUS	0827943	1
10-section, lettering field size: 20 x 8 mm	white	UC-EMLP (20X8) CUS	0824556	1
	yellow	UC-EMLP (20X8) YE CUS	0824557	1
	silver	UC-EMLP (20X8) SR CUS	0828101	1
6-section, lettering field size: 22 x 22 mm	white	UC-EMLP (22X22) CUS	0826985	1
	yellow	UC-EMLP (22X22) YE CUS	0826986	1
	silver	UC-EMLP (22X22) SR CUS	0826987	1
8-section, lettering field size: 27 x 12.5 mm	white	UC-EMLP (27X12,5) CUS	0826967	1
	yellow	UC-EMLP (27X12,5) YE CUS	0826968	1
	silver	UC-EMLP (27X12,5) SR CUS	0826969	1
8-section, lettering field size: 27 x 18 mm	white	UC-EMLP (27X18) CUS	0826970	1
	yellow	UC-EMLP (27X18) YE CUS	0826971	1
	silver	UC-EMLP (27X18) SR CUS	0826972	1
6-section, lettering field size: 27 x 27 mm	white	UC-EMLP (27X27) CUS	0826973	1
	yellow	UC-EMLP (27X27) YE CUS	0826974	1
	silver	UC-EMLP (27X27) SR CUS	0826975	1
4-section, lettering field size: 49 x 15 mm	white	UC-EMLP (49X15) CUS	0827947	1
	silver	UC-EMLP (49X15) SR CUS	0827948	1
	yellow	UC-EMLP (49X15) YE CUS	0827949	1
4-section, lettering field size: 60 x 15 mm	white	UC-EMLP (60X15) CUS	0824559	1
	yellow	UC-EMLP (60X15) YE CUS	0824560	1
	silver	UC-EMLP (60X15) SR CUS	0828090	1
3-section, lettering field size: 60 x 30 mm	white	UC-EMLP (60X30) CUS	0824562	1
	yellow	UC-EMLP (60X30) YE CUS	0824563	1
	silver	UC-EMLP (60X30) SR CUS	0828093	1

Device marking

UniCard device marking for screwing or riveting

Can be printed with:



BLUEMARK



Plotter



Unlabeled or labeled according to customer specifications



- The UC-EMSP ... UniCard labeling range includes markers that can be attached using screws or rivets
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning 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 for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:

Corresponding rivet for fixing the UC-EMSP ..., see page 254.

For drilling diagrams, visit www.phoenixcontact.net/catalog

¹⁾ For ordering example, see page 243.

General data

Can be printed with:

Material

Inflammability class according to UL 94

Temperature range

Wipe resistance

Components

[°C]

Technical data

BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER

PA

V2

-40 ... 120

DIN EN 61010-1 (VDE 0411-1)

Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard , plastic labels with mounting holes 3.2 mm in diameter, can be labeled with BLUEMARK and CMS-P1-PLOTTER				
4-section, lettering field size: 50 x 15 mm	white	UC-EMSP (50X15)	0828706	10
	yellow	UC-EMSP (50X15) YE	0828707	10
	silver	UC-EMSP (50X15) SR	0828708	10
3-section, lettering field size: 50 x 30 mm	white	UC-EMSP (50X30)	0828709	10
	yellow	UC-EMSP (50X30) YE	0828710	10
	silver	UC-EMSP (50X30) SR	0828711	10
UniCard , plastic labels with mounting holes 3.2 mm in diameter, labeled acc. to customer specifications ¹⁾				
4-section, lettering field size: 50 x 15 mm	white	UC-EMSP (50X15) CUS	0829103	1
	yellow	UC-EMSP (50X15) YE CUS	0829104	1
	silver	UC-EMSP (50X15) SR CUS	0829105	1
3-section, lettering field size: 50 x 30 mm	white	UC-EMSP (50X30) CUS	0829106	1
	yellow	UC-EMSP (50X30) YE CUS	0829107	1
	silver	UC-EMSP (50X30) SR CUS	0829108	1

Accessories

Magazine, for CMS-P1-PLOTTER

P1 UC-MAG 6

5146121

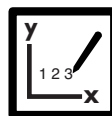
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UniCard device marking that can be snapped into marker carriers

Can be printed with:



BLUEMARK



Plotter



Unlabeled or labeled according to customer specifications

- The UC-EMP ... UniCard labeling 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 and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning 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 for including function texts
- Labeling service: Phoenix Contact can custom-label all UniCard markers in accordance with your requirements

Notes:
Matching label frames, see page 228.
¹⁾ For ordering example, see page 243.

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

Technical data	
BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER	
PA	
V2	
-40 ... 120	
DIN EN 61010-1 (VDE 0411-1)	
Silicone and halogen-free	

Description	Color
UniCard , 1.2 mm thick, can be labeled with BLUEMARK and CMS-P1-PLOTTER	
8-section, lettering field size: 17 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 15 mm	white yellow silver
4-section, lettering field size: 49 x 15 mm	white yellow silver
4-section, lettering field size: 60 x 15 mm	white yellow silver
3-section, lettering field size: 60 x 30 mm	white yellow silver
UniCard , 1.2 mm thick, labeled acc. to customer specifications ¹⁾	
8-section, lettering field size: 17 x 15 mm	white yellow silver
8-section, lettering field size: 27 x 15 mm	white yellow silver
4-section, lettering field size: 49 x 15 mm	white yellow silver
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-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
UC-EMP (17X15) CUS	0827626	1
UC-EMP (17X15) YE CUS	0827638	1
UC-EMP (17X15) SR CUS	0827649	1
UC-EMP (27X15) CUS	0827633	1
UC-EMP (27X15) YE CUS	0827642	1
UC-EMP (27X15) SR CUS	0827653	1
UC-EMP (49X15) CUS	0827636	1
UC-EMP (49X15) YE CUS	0827645	1
UC-EMP (49X15) SR CUS	0827656	1
UC-EMP (60X15) CUS	0824569	1
UC-EMP (60X15) YE CUS	0826685	1
UC-EMP (60X15) SR CUS	0827657	1
UC-EMP (60X30) CUS	0824571	1
UC-EMP (60X30) YE CUS	0826687	1
UC-EMP (60X30) SR CUS	0827658	1

Magazine, for CMS-P1-PLOTTER	
P1 UC-MAG 6	5146121

Accessories		
P1 UC-MAG 6	5146121	1

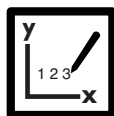
Device marking

UniCard device marking that can be snapped into marker carriers

Can be printed with:



BLUEMARK



Plotter



Unlabeled



- The UC-EMP ... UniCard labeling range includes markers for all applications
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning 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 for including function texts

Notes:

Matching label frames, see page 228.

General data

Can be printed with:
 Material
 Inflammability class according to UL 94
 Temperature range [°C]
 Wipe resistance
 Components

Technical data

BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
 PA
 V2
 -40 ... 120
 DIN EN 61010-1 (VDE 0411-1)
 Silicone and halogen-free

Description	Color
UniCard , 1.2 mm thick, can be labeled with BLUEMARK and CMS-P1-PLOTTER	
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

P1 UC-MAG 6	5146121	1
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UniCard device marking that can be snapped into marker carriers

– All UC-EMP ... device markers can also be supplied labeled according to customer requirements



Labeled according to customer specifications

Notes:
1) For ordering example, see page 243.

General data		Technical data		
Material		PA		
Inflammability class according to UL 94		V2		
Temperature range	[°C]	-40 ... 120		
Wipe resistance		DIN EN 61010-1 (VDE 0411-1)		
Components		Silicone and halogen-free		
		Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, 1.2 mm thick, labeled acc. to customer specifications¹⁾				
10-section, lettering field size: 27 x 8 mm	white	UC-EMP (27X8) CUS	0827631	1
	yellow	UC-EMP (27X8) YE CUS	0827640	1
	silver	UC-EMP (27X8) SR CUS	0827651	1
8-section, lettering field size: 27 x 12.5 mm	white	UC-EMP (27X12,5) CUS	0827632	1
	yellow	UC-EMP (27X12,5) YE CUS	0827641	1
	silver	UC-EMP (27X12,5) SR CUS	0827652	1
8-section, lettering field size: 27 x 15 mm	white	UC-EMP (27X15) CUS	0827633	1
	yellow	UC-EMP (27X15) YE CUS	0827642	1
	silver	UC-EMP (27X15) SR CUS	0827653	1
8-section, lettering field size: 27 x 18 mm	white	UC-EMP (27X18) CUS	0827634	1
	yellow	UC-EMP (27X18) YE CUS	0827643	1
	silver	UC-EMP (27X18) SR CUS	0827654	1
6-section, lettering field size: 27 x 27 mm	white	UC-EMP (27X27) CUS	0827635	1
	yellow	UC-EMP (27X27) YE CUS	0827644	1
	silver	UC-EMP (27X27) SR CUS	0827655	1

Can be printed with:



BLUEMARK



Plotter



Unlabeled

- The UC-EM ... UniCard labeling range includes markers for devices and switching devices from a wide variety of manufacturers
- An overview of the devices that support labeling plus their manufacturers can be found starting on page 234
- The markers, which are supplied in uniform sheets, can be printed onto quickly and easily using the BLUEMARK LED
- The format automatically ensures printing with a high level of positioning 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 for including function texts

General data

Can be printed with:	
Number of individual labels	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

BLUEMARK X1 , BLUEMARK LED , CMS-P1-PLOTTER
20
PA
V2
-40 ... 120
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Description	Color
UniCard, 1.2 mm thick, can be labeled with BLUEMARK and CMS-P1-PLOTTER	
Lettering field size: 10 x 7 mm	white
	turquoise
Lettering field size: 10 x 8 mm	white
	turquoise
Lettering field size: 17.5 x 7.5 mm	white
Lettering field size: 17.5 x 8 mm	white
Lettering field size: 17.5 x 9 mm	white
	yellow
Lettering field size: 18 x 8 mm	white
Lettering field size: 19 x 9 mm	white
	yellow
Lettering field size: 20 x 7 mm	white
	turquoise
Lettering field size: 20 x 9 mm	white
	yellow
	turquoise
Lettering field size: 21 x 8 mm	white

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
UC-EM (17,5X9)	0827490	10
UC-EM (17,5X9) YE	0827494	10
UC-EM (18X8)	0825497	10
UC-EM (19X9)	0827492	10
UC-EM (19X9) YE	0827496	10
UC-EM (20X7)	0825499	10
UC-EM (20X7) TQ	0825500	10
UC-EM (20X9)	0825503	10
UC-EM (20X9) YE	0827637	10
UC-EM (20X9) TQ	0825504	10
UC-EM (21X8)	0825507	10

Magazine, for CMS-P1-PLOTTER

Accessories

P1 UC-MAG 6	5146121	1
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UniCard snap-in device marking

- All UC-EM ... device markers can also be supplied labeled according to customer requirements

Notes:

1) For ordering example, see page 243.



Labeled according to customer specifications

General data

Number of individual labels	20
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Technical data

Number of individual labels	20
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 120
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniCard, 1.2 mm thick, labeled acc. to customer specifications¹⁾				
Lettering field size: 10 x 7 mm	white	UC-EM (10X7) CUS	0827623	1
	turquoise	UC-EM (10X7) TQ CUS	0827659	1
Lettering field size: 10 x 8 mm	white	UC-EM (10X8) CUS	0827624	1
	turquoise	UC-EM (10X8) TQ CUS	0827660	1
Lettering field size: 17.5 x 7.5 mm	white	UC-EM (17,5X7,5) CUS	0827625	1
Lettering field size: 17.5 x 8 mm	white	UC-EM (17,5X8) CUS	0824567	1
Lettering field size: 18 x 8 mm	white	UC-EM (18X8) CUS	0827627	1
Lettering field size: 17.5 x 9 mm	white	UC-EM (17,5X9) CUS	0828238	1
	yellow	UC-EM (17,5X9) YE CUS	0828239	1
Lettering field size: 19 x 9 mm	white	UC-EM (19X9) CUS	0828240	1
	yellow	UC-EM (19X9) YE CUS	0828241	1
Lettering field size: 20 x 7 mm	white	UC-EM (20X7) CUS	0827628	1
	turquoise	UC-EM (20X7) TQ CUS	0827661	1
Lettering field size: 20 x 9 mm	white	UC-EM (20X9) CUS	0827629	1
	yellow	UC-EM (20X9) YE CUS	0827639	1
	turquoise	UC-EM (20X9) TQ CUS	0827662	1
Lettering field size: 21 x 8 mm	white	UC-EM (21X8) CUS	0827630	1

Can be printed with:

N



Thermal transfer for cards



Unlabeled

- The US-EMLP ... UniSheet labeling range includes self-adhesive device markers with good adhesive properties
- 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 for including function texts

General data

Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
PVC
V0
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet , with self-adhesive plastic labels, 0.5 mm thick				
135-section, lettering field size: 11 x 9 mm	white	US-EMLP (11X9)	0828789	10
	yellow	US-EMLP (11X9) YE	0828871	10
	silver	US-EMLP (11X9) SR	0828872	10
189-section, lettering field size: 15 x 5 mm	white	US-EMLP (15X5)	0828790	10
	yellow	US-EMLP (15X5) YE	0828873	10
	silver	US-EMLP (15X5) SR	0828874	10
108-section, lettering field size: 17 x 7 mm	white	US-EMLP (17X7)	0828792	10
	yellow	US-EMLP (17X7) YE	0828877	10
	silver	US-EMLP (17X7) SR	0828878	10
54-section, lettering field size: 17 x 15 mm	white	US-EMLP (17X15)	0828793	10
	yellow	US-EMLP (17X15) YE	0828879	10
	silver	US-EMLP (17X15) SR	0828880	10
75-section, lettering field size: 20 x 9 mm	white	US-EMLP (20X9)	0828795	10
	yellow	US-EMLP (20X9) YE	0828883	10
	silver	US-EMLP (20X9) SR	0828884	10
24-section, lettering field size: 22 x 22 mm	white	US-EMLP (22X22)	0828796	10
	yellow	US-EMLP (22X22) YE	0828885	10
	silver	US-EMLP (22X22) SR	0828886	10
51-section, lettering field size: 27 x 8 mm	white	US-EMLP (27X8)	0828797	10
	yellow	US-EMLP (27X8) YE	0828889	10
	silver	US-EMLP (27X8) SR	0828890	10
30-section, lettering field size: 27 x 12.5 mm	white	US-EMLP (27X12,5)	0828798	10
	yellow	US-EMLP (27X12,5) YE	0828891	10
	silver	US-EMLP (27X12,5) SR	0828892	10
27-section, lettering field size: 27 x 15 mm	white	US-EMLP (27X15)	0828799	10
	yellow	US-EMLP (27X15) YE	0828893	10
	silver	US-EMLP (27X15) SR	0828894	10

Accessories

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

THERMOMARK CARD-US-MAG1	5146451	1
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UniSheet stick-on device marking

N



Unlabeled

General data

Can be printed with:	
Material	
Inflammability class according to UL 94	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK CARD	
PVC	
V0	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Silicone-free	

Description	Color
UniSheet , with self-adhesive plastic labels, 0.5 mm thick	
21-section, lettering field size: 27 x 18 mm	white
	yellow
	silver
15-section, lettering field size: 27 x 27 mm	white
	yellow
	silver
45-section, lettering field size: 35 x 9 mm	white
	yellow
	silver
18-section, lettering field size: 49 x 15 mm	white
	yellow
	silver
9-section, lettering field size: 60 x 15 mm	white
	yellow
	silver
4-section, lettering field size: 60 x 30 mm	white
	yellow
	silver
2-section, lettering field size: 85.6 x 54 mm	white
	yellow
	silver
2-section, lettering field size: 100 x 60 mm	white
	yellow
	silver

Ordering data			
Type	Order No.	Pcs. / Pkt.	
US-EMLP (27X18)	0828800	10	
US-EMLP (27X18) YE	0828895	10	
US-EMLP (27X18) SR	0828896	10	
US-EMLP (27X27)	0828801	10	
US-EMLP (27X27) YE	0828897	10	
US-EMLP (27X27) SR	0828898	10	
US-EMLP (35X9)	0828802	10	
US-EMLP (35X9) YE	0828899	10	
US-EMLP (35X9) SR	0829430	10	
US-EMLP (49X15)	0828803	10	
US-EMLP (49X15) YE	0828901	10	
US-EMLP (49X15) SR	0828902	10	
US-EMLP (60X15)	0828804	10	
US-EMLP (60X15) YE	0828903	10	
US-EMLP (60X15) SR	0828904	10	
US-EMLP (60X30)	0828805	10	
US-EMLP (60X30) YE	0828905	10	
US-EMLP (60X30) SR	0828906	10	
US-EMLP (85,6X54)	0828806	10	
US-EMLP (85,6X54) YE	0828907	10	
US-EMLP (85,6X54) SR	0828908	10	
US-EMLP (100X60)	0828807	10	
US-EMLP (100X60) YE	0828909	10	
US-EMLP (100X60) SR	0828910	10	

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

Accessories		
THERMOMARK CARD-US-MAG1	5146451	1



Labeled according to customer specifications

– All US-EMLP ... device markers can also be supplied labeled according to customer requirements

Notes:

¹⁾ For ordering example, see page 243.

General data

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

Technical data

PVC
V0
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications¹⁾				
135-section, lettering field size: 11 x 9 mm	white	US-EMLP (11X9) CUS	0830073	1
	yellow	US-EMLP (11X9) YE CUS	0830074	1
	silver	US-EMLP (11X9) SR CUS	0830075	1
189-section, lettering field size: 15 x 5 mm	white	US-EMLP (15X5) CUS	0830076	1
	yellow	US-EMLP (15X5) YE CUS	0830077	1
	silver	US-EMLP (15X5) SR CUS	0830078	1
108-section, lettering field size: 17 x 7 mm	white	US-EMLP (17X7) CUS	0830079	1
	yellow	US-EMLP (17X7) YE CUS	0830080	1
	silver	US-EMLP (17X7) SR CUS	0830081	1
54-section, lettering field size: 17 x 15 mm	white	US-EMLP (17X15) CUS	0830082	1
	yellow	US-EMLP (17X15) YE CUS	0830083	1
	silver	US-EMLP (17X15) SR CUS	0830084	1
75-section, lettering field size: 20 x 9 mm	white	US-EMLP (20X9) CUS	0830085	1
	yellow	US-EMLP (20X9) YE CUS	0830086	1
	silver	US-EMLP (20X9) SR CUS	0830087	1
24-section, lettering field size: 22 x 22 mm	white	US-EMLP (22X22) CUS	0830088	1
	yellow	US-EMLP (22X22) YE CUS	0830089	1
	silver	US-EMLP (22X22) SR CUS	0830090	1
51-section, lettering field size: 27 x 8 mm	white	US-EMLP (27X8) CUS	0830091	1
	yellow	US-EMLP (27X8) YE CUS	0830092	1
	silver	US-EMLP (27X8) SR CUS	0830093	1
30-section, lettering field size: 27 x 12.5 mm	white	US-EMLP (27X12,5) CUS	0830094	1
	yellow	US-EMLP (27X12,5) YE CUS	0830095	1
	silver	US-EMLP (27X12,5) SR CUS	0830096	1
27-section, lettering field size: 27 x 15 mm	white	US-EMLP (27X15) CUS	0830097	1
	yellow	US-EMLP (27X15) YE CUS	0830098	1
	silver	US-EMLP (27X15) SR CUS	0830099	1

UniSheet stick-on device marking

N



Labeled according to customer specifications

General data

Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 150 [°C]
Wipe resistance	DIN EN 61010-1 (VDE 0411-1)
Components	Silicone-free

Technical data

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
UniSheet, with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications				
21-section, lettering field size: 27 x 18 mm	white	US-EMLP (27X18) CUS	0830100	1
	yellow	US-EMLP (27X18) YE CUS	0830101	1
	silver	US-EMLP (27X18) SR CUS	0830102	1
15-section, lettering field size: 27 x 27 mm	white	US-EMLP (27X27) CUS	0830103	1
	yellow	US-EMLP (27X27) YE CUS	0830104	1
	silver	US-EMLP (27X27) SR CUS	0830105	1
45-section, lettering field size: 35 x 9 mm	white	US-EMLP (35X9) CUS	0830106	1
	yellow	US-EMLP (35X9) YE CUS	0830107	1
	silver	US-EMLP (35X9) SR CUS	0830108	1
18-section, lettering field size: 49 x 15 mm	white	US-EMLP (49X15) CUS	0830109	1
	yellow	US-EMLP (49X15) YE CUS	0830110	1
	silver	US-EMLP (49X15) SR CUS	0830111	1
9-section, lettering field size: 60 x 15 mm	white	US-EMLP (60X15) CUS	0830112	1
	yellow	US-EMLP (60X15) YE CUS	0830113	1
	silver	US-EMLP (60X15) SR CUS	0830114	1
4-section, lettering field size: 60 x 30 mm	white	US-EMLP (60X30) CUS	0830115	1
	yellow	US-EMLP (60X30) YE CUS	0830116	1
	silver	US-EMLP (60X30) SR CUS	0830117	1
2-section, lettering field size: 85.6 x 54 mm	white	US-EMLP (85,6X54) CUS	0830118	1
	yellow	US-EMLP (85,6X54) YE CUS	0830119	1
	silver	US-EMLP (85,6X54) SR CUS	0830120	1
2-section, lettering field size: 100 x 60 mm	white	US-EMLP (100X60) CUS	0830121	1
	yellow	US-EMLP (100X60) YE CUS	0830122	1
	silver	US-EMLP (100X60) SR CUS	0830123	1

UniSheet device marking that can be snapped into marker carriers

Can be printed with:



Thermal transfer for cards



Unlabeled

- The US-EMP ... UniSheet labeling 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 for including function texts

Notes:

Matching label frames, see page 228.

General data

Can be printed with:	
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 , just 0.5 mm thick	
54-section, lettering field size: 17 x 15 mm	white yellow silver
70-section, lettering field size: 20 x 9 mm	white
84-section, lettering field size: 25 x 6 mm	white
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 white white
21-section, lettering field size: 27 x 18 mm	white yellow silver
15-section, lettering field size: 27 x 27 mm	white yellow silver
48-section, lettering field size: 29 x 8 mm	white yellow
16-section, lettering field size: 40 x 17 mm	white
36-section, lettering field size: 44 x 7 mm	white
18-section, lettering field size: 49 x 15 mm	white yellow silver
9-section, lettering field size: 60 x 15 mm	white yellow silver
4-section, lettering field size: 60 x 30 mm	white yellow silver
2-section, lettering field size: 85.6 x 54 mm	white yellow silver
1-section, lettering field size: 100 x 15 mm	white yellow silver

Ordering data

Type	Order No.	Pcs. / Pkt.
US-EMP (17X15)	0828774	10
US-EMP (17X15) YE	0828842	10
US-EMP (17X15) SR	0828843	10
US-EMP (20X9)	0829439	10
US-EMP (25X6)	0829435	10
US-EMP (27X8)	0828775	10
US-EMP (27X8) YE	0828844	10
US-EMP (27X8) SR	0828845	10
US-EMP (27X12,5)	0828776	10
US-EMP (27X12,5) YE	0828846	10
US-EMP (27X12,5) SR	0828847	10
US-EMP (27X15)	0828777	10
US-EMP (27X15) YE	0828848	10
US-EMP (27X15) SR	0828849	10
US-EMP (27X18)	0828778	10
US-EMP (27X18) YE	0828850	10
US-EMP (27X18) SR	0828851	10
US-EMP (27X27)	0828779	10
US-EMP (27X27) YE	0828852	10
US-EMP (27X27) SR	0828853	10
US-EMP (29X8)	0829436	10
US-EMP (29X8) YE	0829440	10
US-EMP (40X17)	0829437	10
US-EMP (44X7)	0829438	10
US-EMP (49X15)	0828780	10
US-EMP (49X15) YE	0828854	10
US-EMP (49X15) SR	0828855	10
US-EMP (60X15)	0828781	10
US-EMP (60X15) YE	0828856	10
US-EMP (60X15) SR	0828857	10
US-EMP (60X30)	0828782	10
US-EMP (60X30) YE	0828858	10
US-EMP (60X30) SR	0828859	10
US-EMP (85,6X54)	0828783	10
US-EMP (85,6X54) YE	0828860	10
US-EMP (85,6X54) SR	0828861	10
US-EMP (100X15)	0829521	10
US-EMP (100X15) YE	0829522	10
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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UniSheet device marking that can be snapped into marker carriers

N

- All US-EMP ... device markers can also be supplied labeled according to customer requirements

Notes:
Matching label frames, see page 228
1) For ordering example, see page 243.



Labeled according to customer specifications

General data		Technical data			
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			
Description		Ordering data			
Description	Color	Type	Order No.	Pcs. / Pkt.	
UniSheet, with self-adhesive plastic labels, 0.5 mm thick, labeled acc. to customer specifications¹⁾					
54-section, lettering field size: 17 x 15 mm	white	US-EMP (17X15) CUS	0830025	1	
	yellow	US-EMP (17X15) YE CUS	0830026	1	
	silver	US-EMP (17X15) SR CUS	0830027	1	
70-section, lettering field size: 20 x 9 mm	white	US-EMP (20X9) CUS	0830028	1	
	84-section, lettering field size: 25 x 6 mm	white	US-EMP (25X6) CUS	0830029	1
		51-section, lettering field size: 27 x 8 mm	white	US-EMP (27X8) CUS	0830030
yellow	US-EMP (27X8) YE CUS		0830031	1	
silver	US-EMP (27X8) SR CUS		0830032	1	
30-section, lettering field size: 27 x 12.5 mm	white	US-EMP (27X12,5) CUS	0830033	1	
	yellow	US-EMP (27X12,5) YE CUS	0830034	1	
	silver	US-EMP (27X12,5) SR CUS	0830035	1	
27-section, lettering field size: 27 x 15 mm	white	US-EMP (27X15) CUS	0830036	1	
	yellow	US-EMP (27X15) YE CUS	0830037	1	
	silver	US-EMP (27X15) SR CUS	0830038	1	
21-section, lettering field size: 27 x 18 mm	white	US-EMP (27X18) CUS	0830039	1	
	yellow	US-EMP (27X18) YE CUS	0830040	1	
	silver	US-EMP (27X18) SR CUS	0830041	1	
15-section, lettering field size: 27 x 27 mm	white	US-EMP (27X27) CUS	0830042	1	
	yellow	US-EMP (27X27) YE CUS	0830043	1	
	silver	US-EMP (27X27) SR CUS	0830044	1	
48-section, lettering field size: 29 x 8 mm	white	US-EMP (29X8) CUS	0830045	1	
	yellow	US-EMP (29X8) YE CUS	0830046	1	
16-section, lettering field size: 40 x 17 mm	white	US-EMP (40X17) CUS	0830047	1	
36-section, lettering field size: 44 x 7 mm	white	US-EMP (44X7) CUS	0830048	1	
18-section, lettering field size: 49 x 15 mm	white	US-EMP (49X15) CUS	0830049	1	
	yellow	US-EMP (49X15) YE CUS	0830050	1	
	silver	US-EMP (49X15) SR CUS	0830051	1	
9-section, lettering field size: 60 x 15 mm	white	US-EMP (60X15) CUS	0830052	1	
	yellow	US-EMP (60X15) YE CUS	0830053	1	
	silver	US-EMP (60X15) SR CUS	0830054	1	
4-section, lettering field size: 60 x 30 mm	white	US-EMP (60X30) CUS	0830055	1	
	yellow	US-EMP (60X30) YE CUS	0830056	1	
	silver	US-EMP (60X30) SR CUS	0830057	1	
2-section, lettering field size: 85.6 x 54 mm	white	US-EMP (85,6X54) CUS	0830058	1	
	yellow	US-EMP (85,6X54) YE CUS	0830059	1	
	silver	US-EMP (85,6X54) SR CUS	0830060	1	
1-section, lettering field size: 100 x 15 mm	white	US-EMP (100X15) CUS	0830061	1	
	yellow	US-EMP (100X15) YE CUS	0830062	1	
	silver	US-EMP (100X15) SR CUS	0830063	1	

UniSheet device marking for screwing or riveting

Can be printed with:



Thermal transfer for cards



Unlabeled or labeled according to customer specifications

- The US-EMSP ... UniSheet labeling 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 for including function texts
- Labeling service: Phoenix Contact can custom-label all UniSheet markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

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

Description	Color
UniSheet, 0.5 mm thick 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
UniSheet, 0.5 mm thick, labeled acc. to customer specifications, 4-section, lettering field size: 50 x 30 mm	white
	yellow
	yellow
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

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 (50X30) CUS	0830064	1
US-EMSP (50X30) YE CUS	0830065	1
US-EMSP (50X30) SR CUS	0830066	1
US-EMSP (75,6X54) CUS	0830067	1
US-EMSP (75,6X54) YE CUS	0830068	1
US-EMSP (75,6X54) SR CUS	0830069	1
US-EMSP (90X60) CUS	0830070	1
US-EMSP (90X60) YE CUS	0830071	1
US-EMSP (90X60) SR CUS	0830072	1

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

Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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UniSheet stick-on device marking

Can be printed with:



Thermal transfer for cards



Markers with and without fabric

- The US-EML ... and US-EMLC ... UniSheet labeling ranges include markers for marking operating equipment in electrical and system engineering applications
- 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
- The UC-EMLC ... labels can be peeled off and stuck back on without disintegrating
- Low restoring forces mean that the labels can even be stuck onto uneven surfaces and edges
- When used in conjunction with high-quality ink ribbons, they result in a highly resistant form of labeling that is suitable for harsh environments
- The sheets provide space for including function texts
- The US-EML ... material is UL-listed

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK CARD
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

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
UniSheet , with self-adhesive textile labels, 64-section, lettering field size: 20 x 8 mm	white
	yellow
32-section, lettering field size: 40 x 8 mm	white
	yellow

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
US-EMLC (20X8)	0800468	10
US-EMLC (20X8) YE	0800469	10
US-EMLC (40X8)	0800470	10
US-EMLC (40X8) YE	0800471	10

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

Accessories

THERMOMARK CARD-US-MAG1	5146451	1
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Stick-on device marking

Can be printed with:



Thermal transfer for rolls



Unlabeled, 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 labeling 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 33.

General data

Can be printed with:

Material
Temperature range [°C]
Wipe resistance
Components

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Labels				
10,000 labels per roll	white	EML (10X4)R	0815583	1
10,000 labels per roll	white	EML (10X7)R	0816663	1
2500 labels per roll	yellow			
2500 labels per roll	white	EML (15X9)R	0815677	1
2500 labels per roll	white	EML (16,5X5)R	0816702	1
2500 labels per roll	white	EML (16X7)R	0818001	1
2500 labels per roll	white	EML (17,5X8)R	0816744	1
2500 labels per roll	white	EML (19X6)R	0816760	1
2500 labels per roll	yellow			
2500 labels per roll	white	EML (20X8)R	0816786	1
2500 labels per roll	silver/matt			
2500 labels per roll	white	EML (25,4X12,7)R	0816825	1
2500 labels per roll	silver/matt			
2500 labels per roll	silver/matt			
2500 labels per roll	yellow			
2500 labels per roll	silver/matt			
1000 labels per roll	silver/matt			
2500 labels per roll	white	EML (30X20)R	0816922	1
2500 labels per roll	white	EML (38X17)R	0816951	1
1000 labels per roll	white	EML (40X8)R	0816980	1
1000 labels per roll	silver/matt			
1000 labels per roll	white	EML (40X25)R	0818027	1
1000 labels per roll	white	EML (51X25)R	0817028	1
1000 labels per roll	white	EML (70X32)R	0817060	1
400 labels per roll	white	EML (70X50)R	0817099	1
2500 labels per roll	white	EML (90X5)R	0817109	1
300 labels per roll	white	EML (100X73)R	0817125	1
250 labels per roll	white	EML (100X90)R	0817154	1
Labels, on large roll				
10,000 labels per roll	white	EML (16,5X5)RL	0816113	1
10,000 labels per roll	yellow			
10,000 labels per roll	white	EML (25,4X12,7)RL	0816087	1
10,000 labels per roll	white	EML (38,1X19)RL	0816171	1
3000 labels per roll	white	EML (50,8X25,4)RL	0816184	1
3000 labels per roll	white	EML (69,8X31,8)RL	0816197	1
2500 labels per roll	yellow			
1000 labels per roll	silver/matt			
Labels, round, 17.5 mm diameter				
2500 labels per roll	white	EML (D17,5)R	0815774	1
Continuous labels, on large roll				
	transparent	EML (37XE)RL TR	0815716	1
Continuous labels, on large roll				
	silver/matt			



Unlabeled, yellow



Unlabeled, silver

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

Silicone and halogen-free

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

Polyester

-40 ... 150

DIN EN 61010-1 (VDE 0411-1)

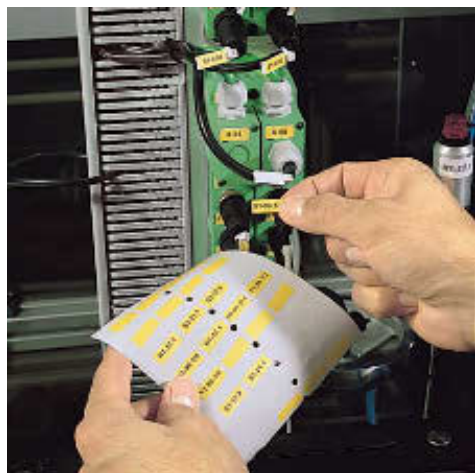
Silicone and halogen-free

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 (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 (40X25)R YE	0816977	1
EML (51X25)R YE	0817031	1
EML (70X32)R YE	0817073	1
EML (100X73)R YE	0817138	1
EML (100X90)R SR	0817141	1
EML (16,5X5)RL YE	0816126	1
EML (17,5X8)RL YE	0816139	1
EML (76,2X6,5)RL YE	0816207	1
EML (100XE)RL SR	0815787	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 (101,6X25,4)RL SR	0815790	1



- All EML ... labels can also be supplied labeled according to customer requirements
- The EML ... materials are UL-listed
- **Designation example:**
EML (10X4)R...
Lettering field size: 10 x 4 mm

Notes:

¹⁾ For ordering example, see page 243.



Labeled acc. to customer specifications, white

General data

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Labels, labeled according to customer specifications¹⁾				
8 labels per strip	white	EML (10X4)R CUS	0824289	1
8 labels per strip	white	EML (10X7)R CUS	0824290	1
8 labels per strip	yellow			
8 labels per strip	white	EML (15X9)R CUS	0824294	1
5 labels per strip	white	EML (16,5X5)R CUS	0824297	1
5 labels per strip	white	EML (16X7)R CUS	0824301	1
5 labels per strip	white	EML (17,5X8)R CUS	0824303	1
4 labels per strip	white	EML (19X6)R CUS	0824306	1
4 labels per strip	yellow			
4 labels per strip	yellow	EML (20X8)R CUS	0824309	1
4 labels per strip	silver/matt			
3 labels per strip	white	EML (25,4X12,7)R CUS	0824313	1
3 labels per strip	silver/matt			
3 labels per strip	silver/matt			
3 labels per strip	white			
3 labels per strip	silver/matt			
3 labels per strip	silver/matt			
3 labels per strip	white	EML (30X20)R CUS	0824323	1
2 labels per strip	white	EML (38X17)R CUS	0824328	1
2 labels per strip	white	EML (40X8)R CUS	0824332	1
2 labels per strip	silver/matt			
2 labels per strip	white	EML (40X25)R CUS	0824330	1
2 labels per strip	white	EML (51X25)R CUS	0824335	1
1 label per strip	white	EML (70X32)R CUS	0824340	1
1 label per strip	white	EML (70X50)R CUS	0824343	1
1 label per strip	white	EML (90X5)R CUS	0824346	1
1 label per strip	white	EML (100X73)R CUS	0824282	1
1 label per strip	white	EML (100X90)R CUS	0824285	1
Labels, labeled according to customer specifications¹⁾				
2 labels per strip	white	EML (38,1X19)RL CUS	0824327	1
1 label per strip	white	EML (50,8X25,4)RL CUS	0824333	1
1 label per strip	white	EML (69,8X31,8)RL CUS	0824339	1
1 label per strip	yellow			
1 label per strip	silver/matt			
Labels, round, 17,5 mm diameter, labeled acc. to customer specifications¹⁾				
4 labels per strip	white	EML (D17,5)R CUS	0824347	1



Labeled acc. to customer specifications, yellow



Labeled acc. to customer specifications, silver

Technical data
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Technical data
Polyester
-40 ... 150
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Ordering data		
Type	Order No.	Pcs. / Pkt.
EML (10X7)R YE CUS	0824291	1
EML (15X6) R YE CUS	0824348	1
EML (15X9)R YE CUS	0824296	1
EML (16,5X5)R YE CUS	0824298	1
EML (16X7)R YE CUS	0824302	1
EML (17,5X8)R YE CUS	0824304	1
EML (20X7)R YE CUS	0824308	1
EML (20X8)R YE CUS	0824310	1
EML (25,4X12,7)R YE CUS	0824314	1
EML (26,5X17,5)R YE CUS	0824319	1
EML (30X20)R YE CUS	0824324	1
EML (40X25)R YE CUS	0824331	1
EML (51X25)R YE CUS	0824337	1
EML (70X32)R YE CUS	0824342	1
EML (100X73)R YE CUS	0824284	1
EML (76,2X6,5)RL YE CUS	0824345	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
EML (15X9)R SR CUS	0824295	1
EML (21,5X21,5)R SR CUS	0824312	1
EML (26,5X7,5)R SR CUS	0824322	1
EML (26,5X12)R SR CUS	0824315	1
EML (26,5X17,5)R SR CUS	0824318	1
EML (26,5X18,5)R SR CUS	0824320	1
EML (26,5X26,5)R SR CUS	0824321	1
EML (40X15)R SR CUS	0824329	1
EML (51X25)R SR CUS	0824336	1
EML (70X32)R SR CUS	0824341	1
EML (70X50)R SR CUS	0824344	1
EML (100X73)R SR CUS	0824283	1
EML (100X90)R SR CUS	0824286	1
EML (101,6X25,4)RL SR CUS	0824288	1

Stick-on device marking

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications



- The EMLP ... self-adhesive markers meet the same standards as the engraved labels
- Quick and cost-effective labeling 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
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

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

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Markers				
500 markers p. roll	white	EMLP (13X9)R	0819453	1
500 markers p. roll	white	EMLP (17X7)R	0826844	1
500 markers p. roll	white	EMLP (17,5X12)R	0819466	1
500 markers p. roll	white	EMLP (20X7)R	0819479	1
500 markers p. roll	white	EMLP (20X8)R	0819482	1
500 markers p. roll	white	EMLP (22X12)R	0819495	1
250 markers p. roll	white	EMLP (60X30)R	0819505	1
Markers				
500 markers p. roll	silver	EMLP (27X8)R SR	0819518	1
500 markers p. roll	silver	EMLP (27X12,5)R SR	0819521	1
500 markers p. roll	silver	EMLP (27X18)R SR	0819534	1
500 markers p. roll	silver	EMLP (22X22)R SR	0825528	1
500 markers p. roll	silver	EMLP (27X27)R SR	0827467	1
500 markers p. roll	silver	EMLP (45X15)R SR	0819547	1
Markers, labeled acc. to customer specifications¹⁾				
4 markers per strip	white	EMLP (13X9)R CUS	0824354	1
2 markers per strip	white	EMLP (17X7)R CUS	0827083	1
2 markers per strip	white	EMLP (17,5X12)R CUS	0824355	1
2 markers per strip	white	EMLP (20X7)R CUS	0824356	1
2 markers per strip	white	EMLP (20X8)R CUS	0824357	1
2 markers per strip	white	EMLP (22X12)R CUS	0824358	1
1 marker per strip	white	EMLP (60X30)R CUS	0824363	1
Markers, labeled acc. to customer specifications¹⁾				
2 markers per strip	silver	EMLP (27X8)R SR CUS	0824361	1
2 markers per strip	silver	EMLP (27X12,5)R SR CUS	0824359	1
2 markers per strip	silver	EMLP (27X18)R SR CUS	0824360	1
2 markers per strip	silver	EMLP (27X27)R SR CUS	0827469	1
2 markers per strip	silver	EMLP (45X15)R SR CUS	0824362	1

Stick-on device marking

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

- The EMLP 24 ... self-adhesive markers are ideal for marking electrical buttons
- Quick and cost-effective labeling with THERMOMARK ... printers
- High-quality appearance
- High level of resistance to chemical and mechanical effects
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1	
Polyester	
-20 ... 100	
DIN EN 61010-1 (VDE 0411-1)	
Silicone and halogen-free	

Description	Color
Markers for 24 mm buttons, can be labeled with thermal transfer printer	
500 markers p. roll	white
500 markers p. roll	silver
500 markers p. roll	red
500 markers p. roll	green
Markers for 24 mm buttons, labeled acc. to customer specifications¹⁾	
2 markers per strip	white
2 markers per strip	silver
2 markers per strip	green
2 markers per strip	red

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
EMLP 24 (30X12)R CUS	0824367	1
EMLP 24 (30X12)R SR CUS	0824370	1
EMLP 24 (30X12)R GN CUS	0824368	1
EMLP 24 (30X12)R RD CUS	0824369	1

Device marking

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 -50°C to 110°C
- Labeling service: Phoenix Contact can custom-label all EMLF ... markers in accordance with your requirements

Notes:

¹⁾ For ordering example, see page 243.

Can be printed with:



Thermal transfer for rolls



N

Unlabeled or labeled according to customer specifications

General data

Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1
 PVC
 -50 ... 110
 DIN EN 61010-1 (VDE 0411-1)

Description

Continuous label, width: 108 mm, length: 40 m

Description	Color
Continuous label, width: 108 mm, length: 40 m	white
	yellow
	silver
	transparent
Continuous label, labeled acc. to customer specifications ¹⁾	white
	yellow
	silver
	transparent

Ordering data

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
EMLF (108XE)R CUS	0830183	1
EMLF (108XE)R YE CUS	0830184	1
EMLF (108XE)R SR CUS	0830185	1
EMLF (108XE)R TR CUS	0830186	1

Highly flexible stick-on textile foil

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled 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
- Labeling service: Phoenix Contact can custom-label all EMLC ... markers in accordance with your requirements

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data	
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1	
PA	
-40 ... 150	
DIN EN 61010-1 (VDE 0411-1)	
Silicone and halogen-free	

Description	Color
Fabric label	
2500 labels per roll	yellow
2500 labels per roll	yellow
2500 labels per roll	yellow
2500 labels per roll	yellow
2500 labels per roll	yellow
1000 labels per roll	yellow
1000 labels per roll	white
1000 labels per roll	yellow
750 labels per roll	yellow
Fabric label, labeled according to customer specifications¹⁾	
4 labels per strip	yellow
5 labels per strip	yellow
4 labels per strip	yellow
2 labels per strip	yellow
2 labels per strip	yellow
2 labels per strip	white
1 label per strip	yellow
2 labels per strip	yellow
1 label per strip	yellow

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMLC (15X9)R YE	0800236	1
EMLC (17,5X8)R YE	0800237	1
EMLC (20X8)R YE	0800235	1
EMLC (25X8)R YE	0800240	1
EMLC (25,4X12,7)R YE	0800238	1
EMLC (38X17)R YE	0800557	1
EMLC (40X8)R	0800554	1
EMLC (40X8)R YE	0800555	1
EMLC (51X25)R YE	0800558	1
EMLC (15X9)R YE CUS	0830158	1
EMLC (17,5X8)R YE CUS	0830159	1
EMLC (20X8)R YE CUS	0830157	1
EMLC (25X8)R YE CUS	0830161	1
EMLC (25,4X12,7)R YE CUS	0830160	1
EMLC (40X8)R CUS	0830162	1
EMLC (40X8)R YE CUS	0830163	1
EMLC (38X17)R YE CUS	0830164	1
EMLC (51X25)R YE CUS	0830165	1

Stick-on device marking, for high-temperature applications



- White acrylate label with high level of temperature resistance
- Continuous temperature range of -40°C to +180°C, 300°C for up to 60 seconds
- For marking PCBs, can be used in all industrial soldering processes
- High weathering and chemical resistance
- The EMLHT ... materials are UL-listed
- Labeling service: Phoenix Contact can custom-label all EMLHT ... markers in accordance with your requirements

Notes:

The THERMOMARK-RIBBON 110-EMLHT ink ribbon is required to label EMLHT... high-temperature labels, see under "Printers", page 33.

1) For ordering example, see page 243.

Can be printed with:



Thermal transfer for rolls



N

Unlabeled or labeled according to customer specifications

Technical data

General data

Can be printed with:

Material

Temperature range

Wipe resistance

Components

[°C]

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1

Acrylate

-40 ... 180

DIN EN 61010-1 (VDE 0411-1)

Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
High-temperature labels				
4000 labels per roll	white	EMLHT (8X8)R	0800340	1
4000 labels per roll	white	EMLHT (15X15)R	0800341	1
1000 labels per roll	white	EMLHT (40X15)R	0800339	1
2500 labels per roll	white	EMLHT (45X5)R	0800337	1
1000 labels per roll	white	EMLHT (50X10)R	0800338	1
High-temperature labels, labeled acc. to customer specifications¹⁾				
4 labels per strip	white	EMLHT (8X8)R CUS	0830169	1
4 labels per strip	white	EMLHT (15X15)R CUS	0830170	1
2 labels per strip	white	EMLHT (40X15)R CUS	0830168	1
4 labels per strip	white	EMLHT (45X5)R CUS	0830166	1
1 label per strip	white	EMLHT (50X10)R CUS	0830167	1

Stick-on device marking, with anti-tamper protection

Can be printed with:



Thermal transfer for rolls



Unlabeled or labeled according to customer specifications

- 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
- Labeling service: Phoenix Contact can custom-label all EMLS ... markers in accordance with your requirements
- The EMLS ... materials are UL-listed

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

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

Description	Color
Safety labels	
2500 labels per roll	silver
2500 labels per roll	silver
1000 labels per roll	silver
1000 labels per roll	silver
1000 labels per roll	silver
1000 labels per roll	silver
1000 labels per roll	silver
500 labels per roll	silver
500 labels per roll	silver
100 labels per roll	silver
250 labels per roll	silver
250 labels per roll	silver
Safety labels, labeled acc. to customer specifications¹⁾	
4 labels per strip	silver
4 labels per strip	silver
4 labels per strip	silver
2 labels per strip	silver
2 labels per strip	silver
2 labels per strip	silver
2 labels per strip	silver
2 labels per strip	silver
1 label per strip	silver
1 label per strip	silver
1 label per strip	silver
1 label per strip	silver
1 label per strip	silver
1 label per strip	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMLS (15X9)R SR	0800347	1
EMLS (19X6)R SR	0800343	1
EMLS (20X20)R SR	0800344	1
EMLS (26,5X12)R SR	0800353	1
EMLS (38,1X19)R SR	0800354	1
EMLS (40X8)R SR	0800348	1
EMLS (40X15)R SR	0800345	1
EMLS (60X30)R SR	0800355	1
EMLS (70X32)R SR	0800346	1
EMLS (70X150)R SR	0800351	1
EMLS (76X51)R SR	0800350	1
EMLS (85X32)R SR	0800356	1
EMLS (15X9)R SR CUS	0830175	1
EMLS (19X6)R SR CUS	0830171	1
EMLS (20X20)R SR CUS	0830172	1
EMLS (26,5X12)R SR CUS	0830179	1
EMLS (38,1X19)R SR CUS	0830180	1
EMLS (40X8)R SR CUS	0830176	1
EMLS (40X15)R SR CUS	0830173	1
EMLS (60X30)R SR CUS	0830181	1
EMLS (70X32)R SR CUS	0830174	1
EMLS (70X150)R SR CUS	0830178	1
EMLS (76X51)R SR CUS	0830177	1
EMLS (85X32)R SR CUS	0830182	1

Device marking

Snap-in device markers for Inline systems from Phoenix Contact

Can be printed with:

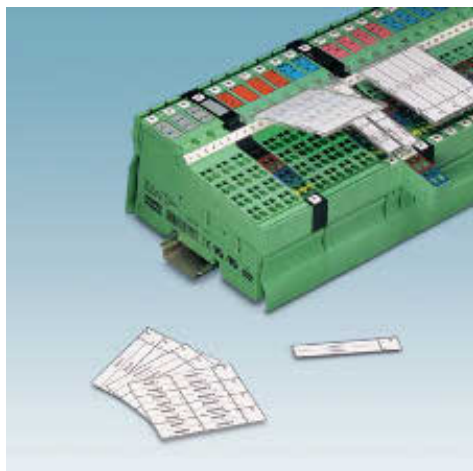


Thermal transfer for rolls



Unlabeled

N



- EMT ... insert strips are available in various sizes for marking Inline modules
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support labeling can be found starting on page 234

General data

Can be printed with:

Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1
 Polyester
 -40 ... 100
 DIN EN 61010-1 (VDE 0411-1)
 Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Insert strips				
500 labels p. roll	white	EMT (62X10)R	0800057	1
	yellow	EMT (62X10)R YE	0800477	1
250 labels p. roll	white	EMT (62X46)R	0800059	1
	yellow	EMT (62X46)R YE	0800478	1

Snap-in device markers for Siemens controllers

Can be printed with:



Thermal transfer for rolls



Unlabeled

- EMT ... insert strips are available in various sizes for marking controllers and modules from other manufacturers
- Available in three colors
- Can be printed using all the thermal transfer printers available from Phoenix Contact
- Precise printing quality
- An overview of the devices that support labeling can be found starting on page 234

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data
THERMOMARK ROLL, THERMOMARK X1.1, THERMOMARK X1.2, THERMOMARK S1, THERMOMARK S1.1
Polyester
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Silicone and halogen-free

Description	Color
Insert strips	
500 labels p. roll	white
	yellow
	turquoise
500 labels p. roll	white
	yellow
	turquoise
500 labels p. roll	white
	yellow
	turquoise
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	
	yellow
	turquoise

Ordering data		
Type	Order No.	Pcs. / Pkt.
EMT (50X26)R	0800052	1
EMT (50X26)R YE	0800054	1
EMT (50X26)R TQ	0800053	1
EMT (103X17)R	0800039	1
EMT (103X17)R YE	0800436	1
EMT (103X17)R TQ	0800041	1
EMT (103X23)R	0800040	1
EMT (103X23)R YE	0800437	1
EMT (103X23)R TQ	0800042	1
EMT (50/28X13)R	0800049	1
EMT (50/28X13)R YE	0800438	1
EMT (50/28X13)R TQ	0800050	1

Stick-on device marking

Can be printed with:



Laser



Unlabeled or labeled 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
- Labeling service: Phoenix Contact can custom-label all BMKL ... markers in accordance with your requirements

Notes:

1) For ordering example, see page 243.

General data

Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Technical data

Office printing systems
Polyester
-40 ... 100
DIN EN 61010-1 (VDE 0411-1)
Silicone-free

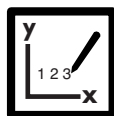
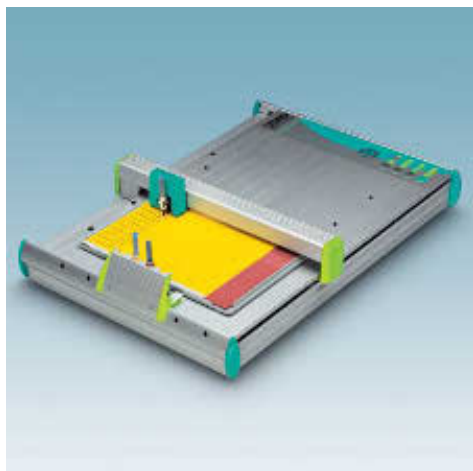
Ordering data

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
Label sheet, labeled acc. to customer specifications¹⁾				
1 sheet = 273 labels	white	BMKL 12X12 WH CUS	0824238	1
1 sheet = 290 labels	white	BMKL 15X 9 WH CUS	0824239	1
1 sheet = 396 labels	white	BMKL 18X 6 WH CUS	0824242	1
1 sheet = 288 labels	white	BMKL 18X 8 WH CUS	0824244	1
1 sheet = 224 labels	white	BMKL 20X 8 WH CUS	0824247	1
1 sheet = 224 labels	white	BMKL 25X 8 WH CUS	0824249	1
1 sheet = 147 labels	white	BMKL 25X12 WH CUS	0824250	1
1 sheet = 228 labels	white	BMKL 26,8X6,8 WH CUS	0824251	1
1 sheet = 63 labels	white	BMKL 50X12 WH CUS	0824257	1
1 sheet = 45 labels	white	BMKL 64X16 WH CUS	0824259	1
1 sheet = 21 labels	white	BMKL 64X34 WH CUS	0824261	1
1 sheet = 290 labels	yellow	BMKL 15X 9 YE CUS	0824240	1
1 sheet = 405 labels	yellow	BMKL 16X 6 YE CUS	0824241	1
1 sheet = 288 labels	yellow	BMKL 18X 8 YE CUS	0824245	1
1 sheet = 168 labels	yellow	BMKL 19X11 YE CUS	0824246	1
1 sheet = 224 labels	yellow	BMKL 20X 8 YE CUS	0824248	1
1 sheet = 162 labels	yellow	BMKL 26X10 YE CUS	0824252	1
1 sheet = 45 labels	yellow	BMKL 64X16 YE CUS	0824260	1
1 sheet = 192 labels	silver	BMKL 27X 8 SR CUS	0824253	1
1 sheet = 126 labels	silver	BMKL 27X12,5 SR CUS	0824254	1
1 sheet = 84 labels	silver	BMKL 27X18 SR CUS	0824255	1
1 sheet = 54 labels	silver	BMKL 27X27 SR CUS	0824256	1
1 sheet = 360 labels	orange	BMKL 18X 6,5 OG CUS	0824243	1
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 printed with:



Plotter



Unlabeled or labeled according to customer specifications

- Self-adhesive labels for labeling by hand or with a plotter
- Secure adhesion even on curved or uneven surfaces as well as at corners
- Available in various dimensions
- Labeling service: Phoenix Contact can custom-label all BMK ... markers in accordance with your requirements

Notes:
1) For ordering example, see page 243

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Components	

Technical data	
CMS-P1-PLOTTER	
Polyester foil	
-40 ... 80	
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
Labels, labeled according to customer specifications¹⁾	
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
BMK 20X 8 WH CUS	0824231	1
BMK 15X 9 YE CUS	0824229	1
BMK 19X11 YE CUS	0824230	1
BMK 20X 8 YE CUS	0824232	1
BMK 38X11 YE CUS	0824233	1

Magazine for accommodating sheet material, self-adhesive mat for fixing labels, foils and paper, size of sheet max. DIN A4	

Accessories		
CMS-P1-PAD	5144819	1

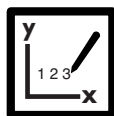
Device marking

Stick-on device marking, can be engraved or labeled

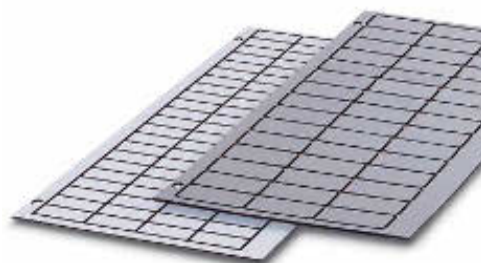
Can be printed with:



Engraving



Plotter



Unlabeled or labeled according to customer specifications



- 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 labeled using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- Two-layer material
- Labeling service: Phoenix Contact can custom-label all GPE ... markers in accordance with your requirements

Notes:

Matching magazines to accommodate the label sheets, see page 40

1) For ordering example, see page 243.

General data

Can be printed with:

Material

Temperature range

[°C]

Components

Technical data

P1 ENGRAVING UNIT, CMS-P1-PLOTTER

TRANSPLY-ABS

-20 ... 85

Silicone and halogen-free

Ordering data

Description	Color	Type	Order No.	Pcs. / Pkt.
Plastic label sheet, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, square corners				
1 sheet = 120 labels	white	GPE 13X 9 WH	0806932	10
1 sheet = 75 labels	white	GPE 17,5X12 WH	0806916	10
1 sheet = 100 labels	white	GPE 20X 7 WH	0806990	10
1 sheet = 88 labels	white	GPE 20X 8 WH	0806945	10
1 sheet = 60 labels	white	GPE 22X12 WH	0806929	10
1 sheet = 9 labels	white	GPE 52X26 WH	0806958	10
1 sheet = 9 labels	white	GPE 60X30 WH	0806961	10
1 sheet = 21 labels	white	GPE 60X12 RD-WH	0824202	10
1 sheet = 5 labels	yellow	GPE 70X32 YE	0824215	10
1 sheet = 30 labels	silver	GPE 28X17,5 SR	0807889	10
Plastic label sheet, labeled according to customer specifications¹⁾				
1 sheet = 120 labels	white	GPE 13X 9 WH CUS	0824414	1
1 sheet = 75 labels	white	GPE 17,5X12 WH CUS	0824415	1
1 sheet = 100 labels	white	GPE 20X 7 WH CUS	0824416	1
1 sheet = 88 labels	white	GPE 20X 8 WH CUS	0824417	1
1 sheet = 60 labels	white	GPE 22X12 WH CUS	0824418	1
1 sheet = 9 labels	white	GPE 52X26 WH CUS	0824429	1
1 sheet = 9 labels	white	GPE 60X30 WH CUS	0824432	1
1 sheet = 21 labels	white	GPE 60X12 RD-WH CUS	0827720	1
1 sheet = 5 labels	yellow	GPE 70X32 YE CUS	0827721	1
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	GPE 27X 8 WH/R	0815198	10
1 sheet = 30 labels	white	GPE 27X18 WH/R	0815208	10
1 sheet = 26 labels	white	GPE 45X14 WH/R	0815282	10
1 sheet = 21 labels	white	GPE 60X12 WH/R	0807630	10
1 sheet = 9 labels	white	GPE 60X30 WH/R	0815292	10
1 sheet = 32 labels	silver	GPE 22X22 SR/R	0806628	10
1 sheet = 66 labels	silver	GPE 27X 8 SR/R	0806877	10
1 sheet = 42 labels	silver	GPE 27X12,5 SR/R	0806880	10
1 sheet = 30 labels	silver	GPE 27X18 SR/R	0806893	10
1 sheet = 18 labels	silver	GPE 27X27 SR/R	0806903	10
1 sheet = 26 labels	silver	GPE 45X14 SR/R	0807009	10
1 sheet = 21 labels	silver	GPE 60X12 SR/R	0806631	10
Plastic label sheet, with rounded corners, radius: 2 mm, labeled according to customer specifications¹⁾				
1 sheet = 66 labels	white	GPE 27X 8 WH/R CUS	0824421	1
1 sheet = 30 labels	white	GPE 27X18 WH/R CUS	0824424	1
1 sheet = 26 labels	white	GPE 45X14 WH/R CUS	0824428	1
1 sheet = 21 labels	white	GPE 60X12 WH/R CUS	0824431	1
1 sheet = 9 labels	white	GPE 60X30 WH/R CUS	0824433	1
1 sheet = 32 labels	silver	GPE 22X22 SR/R CUS	0824419	1
1 sheet = 66 labels	silver	GPE 27X 8 SR/R CUS	0824420	1
1 sheet = 42 labels	silver	GPE 27X12,5 SR/R CUS	0824422	1
1 sheet = 30 labels	silver	GPE 27X18 SR/R CUS	0824423	1
1 sheet = 18 labels	silver	GPE 27X27 SR/R CUS	0824425	1
1 sheet = 30 labels	silver	GPE 28X17,5 SR CUS	0824426	1
1 sheet = 26 labels	silver	GPE 45X14 SR/R CUS	0824427	1
1 sheet = 21 labels	silver	GPE 60X12 SR/R CUS	0824430	1

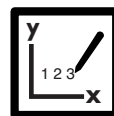


Stick-on device marking, can be engraved or labeled

Can be printed with:



Engraving



Plotter



Unlabeled or labeled according to customer specifications

- High level of resistance to chemical and mechanical effects
- High-quality appearance
- Can be easily labeled using the CMS-P1-PLOTTER
- Can be engraved using the P1 ENGRAVING UNIT
- For marking components, devices, and buttons
- Labeling service: Phoenix Contact can custom-label all EMLP ... markers in accordance with your requirements

Notes:
 1) For ordering example, see page 243.

General data	
Can be printed with:	
Material	
Temperature range	[°C]
Wipe resistance	
Components	

Description	Color
Plastic label sheet , with a hole for a 24 mm Ø button, 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 a 24 mm Ø button, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, labeled according to customer specifications¹⁾	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver
Plastic label sheet , with a hole for a 32 mm Ø button, 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 a 32 mm Ø button, self-adhesive double-layer plastic labels, material thickness: 0.8 mm, labeled according to customer specifications¹⁾	
1 sheet = 6 labels	white
1 sheet = 6 labels	black
1 sheet = 6 labels	silver

Magazine , to hold 1 GPE label sheet

Technical data	
P1 ENGRAVING UNIT, CMS-P1-PLOTTER	
Polyester	
-20 ... 100	
DIN EN 61010-1 (VDE 0411-1)	
Silicone and halogen-free	

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 24 (30X12) CUS	0824364	1
EMLP 24 (30X12) BK CUS	0824365	1
EMLP 24 (30X12) SR CUS	0824366	1
EMLP 32 (38X14)	0822291	1
EMLP 32 (38X14) BK	0822327	1
EMLP 32 (38X14) SR	0822343	1
EMLP 32 (38X14) CUS	0824371	1
EMLP 32 (38X14) BK CUS	0824372	1
EMLP 32 (38X14) SR CUS	0824373	1

Accessories		
Type	Order No.	Pcs. / Pkt.
CMS-P1-M/GPE ENGRAVING	5145711	1

MARKING system

Device marking

Marker carriers



- CARRIER-EMP ... marker carriers are used in conjunction with UC-EMP ... / US-EMP ... snap-in labels
- They are used to clearly identify devices and control cabinets
- They can be assembled using screws or rivets



General data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Silicone and halogen-free

Technical data

Description

Marker carriers, for UC-EMP ... / US-EMP ... snap-in labels

Description	Color
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

Ordering data

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 labeled using snap-in markers for control devices



- Snap-in UC-/US-EMP ... labels are available for marking CARRIER-EMP 22 ... marker carriers
- Can be used for all buttons and switches 22 mm in diameter



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	Silicone and halogen-free

Technical data

Description

Marker carriers, for UC-EM ... / US-EMP ... snap-in labels

Description	Color
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

Ordering data

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 labeled using control device labels



- Can be used for all buttons and switches 22 mm in diameter
- The large labeling areas provided by the CARRIER-EMLP can be custom-labeled using EML ... thermal transfer 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	Silicone and halogen-free
Button diameter	22 [mm]

Technical data

Description	Color
Marker carriers , for buttons and switches 22 mm in diameter, can be labeled with EML ... self-adhesive 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

Ordering data

Type	Order No.	Pcs. / Pkt.
CARRIER-EMLP 22 (27X8)	0828984	50
CARRIER-EMLP 22 (27X12,5)	0828985	50
CARRIER-EMLP 22 (27X15)	0828986	50
CARRIER-EMLP 22 (27X18)	0828987	50
CARRIER-EMLP 22 (27X27)	0828988	50

Transparent stick-on or snap-in cover



- Stuck or snapped onto labeled 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

Description	Color
Shock protection foil , designed for sticking into CARRIER-EMLP ...	
51 labels per sheet	transparent
42 labels per sheet	transparent
30 labels per sheet	transparent
Shock protection , designed for snapping into CARRIER-EMP ...	
	transparent
	transparent

Ordering data

Type	Order No.	Pcs. / Pkt.
EMLPR (26,5X14,5)	0800546	10
EMLPR (26,5X17,5)	0800360	10
EMLPR (26,5X26,5)	0800361	10
EMPPR (27X15)	0829535	50
EMPPR (27X18)	0829536	50

MARKING system

Device marking

Marker profiles

- Self-adhesive marker carriers, available by the meter for shortening as per individual requirements
- Strong adhesion and optimum grip on standard device surfaces
- The P-SS-ZB 100 are absolutely ideal for accommodating UC-EMP ..., US-EMP ...
- The P-ZB METER can accommodate marking material for the vertical and horizontal marker grooves found on Phoenix Contact modular terminal blocks



Designed to be stuck on

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-15 ... 80 [°C]

Technical data

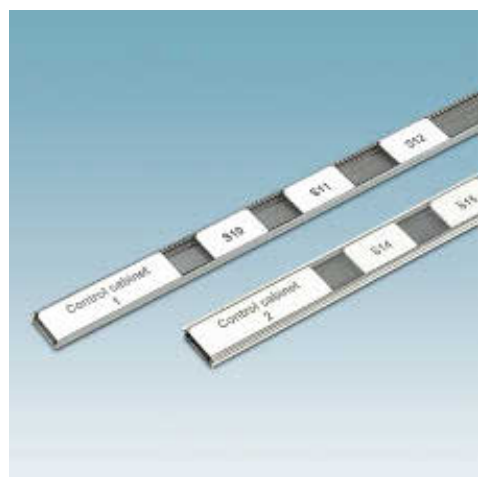
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-15 ... 80 [°C]

Description	Color
Profile , self-adhesive, for accommodating SS-ZB labels, UC-EMP ..., US-EMP ..., length: 1000 mm	gray
Profile , self-adhesive, designed to accommodate UC-TM ..., UCT-TM ..., ZB ..., length: 1 m	gray

Ordering data

Type	Order No.	Pcs. / Pkt.
P-SS-ZB 100	1013737	10
P-ZB METER	1051854	1

Marker profiles



- CARRIER-EMP ... marker carriers can be custom-labeled with UC-EMP ... / US-EMP ... 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	Silicone and halogen-free

Technical data

Material	PVC
Inflammability class according to UL 94	V2
Temperature range	-40 ... 105 [°C]
Components	Silicone and halogen-free

Description	Color
Profile , for screwing or riveting, 1000 mm long, for accommodating UC... and US... materials with a height of 15 mm	gray transparent
Profile , self-adhesive, 1000 mm long, for accommodating UC... and US... materials with a height of 15 mm	black transparent
CARRIER cover , 1000 mm long	transparent

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
- Strong adhesion and optimum grip on standard device surfaces
- These carrier materials can be fitted with products such as UC-WMT ..., US-WMT ..., and EMT ...



For insert strips

General data	
Material	PVC
Inflammability class according to UL 94	V0
Temperature range	-40 ... 60 [°C]
Components	Silicone-free

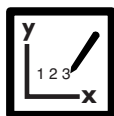
Technical data

Description	Color
Component marking label , self-adhesive, can be labeled with UC-WMT ..., US-WMT ..., and EMT ...	
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, can be labeled with BLUEMARK X1 and CMS-P1-PLOTTER, 32-section	
	white
	yellow
	white
	yellow
UniSheet , with insert strips for PATG and PATO marking collars	
	white
	yellow
	white
	yellow

Ordering data

Type	Order No.	Pcs. / Pkt.
PAB-SK 15	1013287	500
PAB-SK 30	1013290	200
UC-WMT (15X4)	0819398	10
UC-WMT (15X4) YE	0819408	10
UC-WMT (30X4)	0819437	10
UC-WMT (30X4) YE	0819440	10
US-WMT (15X4)	0828767	10
US-WMT (15X4) YE	0828954	10
US-WMT (30X4)	0828770	10
US-WMT (30X4) YE	0828957	10

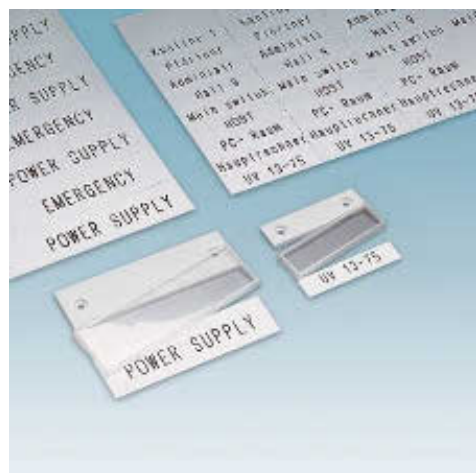
Can be printed with:



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 labeled, the insert label is inserted in the cap and this is then snapped onto the base carrier
- The labeling is protected against external influences.
- The ES-SSMK ... insert strips can be labeled using the CMS-P1-PLOTTER and the CMS-P1-PAD magazine

General data

Can be printed with:	
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
Silicone and halogen-free
40
3.5

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

Control cabinet markers, two M3 fixing holes

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 labeled with plotter, DIN A4, perforated, material: Cardboard

1 sheet = 75 strips, labeling field: 56 x 14 mm	transparent/white
-------------------------------------------------	-------------------

1 sheet = 22 strips, labeling field: 92 x 26 mm	transparent/white
-------------------------------------------------	-------------------

Accessories

ES-SSMK-GB 60X18	5032468	10
ES-SSMK-GB 96X30	5032455	10



Transparent stick-on cover



- Extremely thick, but flexible and transparent label made from halogen-free PU
- Stuck over labels or markers that have been labeled to protect them
- High level of mechanical and chemical stability
- Suitable for permanent outdoor use



Shock protection

General data

Material
Components

Technical data

Urethane foil
Halogen-free

Ordering data

Description	Color
Shock protection foil , designed for sticking into CARRIER-EMLP ...	
51 labels per sheet	transparent
42 labels per sheet	transparent
30 labels per sheet	transparent
14 labels per sheet	transparent
6 labels per sheet	transparent
4 labels per sheet	transparent
9 labels per sheet	transparent

Type	Order No.	Pcs. / Pkt.
EMLPR (26,5X14,5)	0800546	10
EMLPR (26,5X17,5)	0800360	10
EMLPR (26,5X26,5)	0800361	10
EMLPR (30X40)	0800359	10
EMLPR (80X42)	0800357	10
EMLPR (80X60)	0800358	10
EMLPR (100X30)	0800362	10

Device marking

Device marking for Phoenix Contact



INTERFACE

	UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TM 16 UCT-TM 16	UC-TMF 5 UCT-TMF 5	UC-TMF 6 UCT-TMF 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 12 UCT-TMF 12	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)
Sensor box with M12 slots PSR-SACB														
INTERFACE Relay PLC-B..., PLC-O..., PLC-R...														
INTERFACE Relay PLC power terminal block Order No. 2966508														
Relay terminal block DEK-REL...														
Special relay DEK-OE...														
Inverter module DEK-TR...														
Power supply sockets SD-D/..., SD-F/..., SD-US/...														
COMPACT-LINE UM 45...														
PROCESS INTERFACE PI-EX...														



PLUSCON

	UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TM 16 UCT-TM 16	UC-TMF 5 UCT-TMF 5	UC-TMF 6 UCT-TMF 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 12 UCT-TMF 12	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)
SACB with M8 slots														
SACB with M12 slots														
SACB with M5 slots														
SACB-SPEEDCON distributor boxes with M12 slots and metal thread														
SACB-SPEEDCON distributor boxes with M12 slots and plug-in screw connection														
Distributor boxes with QUICKON slots														
Sensor/actuator cabling accessories														
Data connector VS-SCRJ..., VS-IL-2X...														
AS-Interface distributor ASI CC DIST...														
Data front plate VS-SI...														
Modular contact insert HC-M...														
Heavy connector HEAVYCON HC-KA-B...														
Heavy connector HEAVYCON HC-KA-D...														



TRABTECH

- Lightning arrester FLASHTRAB compact PLUS
- Lightning arrester FLASHTRAB PLUS
- Lightning arrester FLASHTRAB compact
- Surge arrester VALVETRAB compact
- Surge arrester VALVETRAB MS
- Device protection MAINS-PLUGTRAB
- Plug-in surge protection cascade PLUGTRAB PT...
- Modular terminal blocks with surge protection elements TT...
- Basic terminal blocks TT-PI...

	UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TM 16 UCT-TM 16	UC-TMF 5 UCT-TMF 5	UC-TMF 6 UCT-TMF 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 12 UCT-TMF 12	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)
Lightning arrester FLASHTRAB compact PLUS														
Lightning arrester FLASHTRAB PLUS														
Lightning arrester FLASHTRAB compact														
Surge arrester VALVETRAB compact														
Surge arrester VALVETRAB MS														
Device protection MAINS-PLUGTRAB														
Plug-in surge protection cascade PLUGTRAB PT...														
Modular terminal blocks with surge protection elements TT...														
Basic terminal blocks TT-PI...														



AUTOMATION

- Inline Modular, Inline Block IO
- INTERBUS ST...
- Fieldline Stand-Alone M12
- Fieldline Modular M12
- Fieldline Modular M8
- Fieldline Extension M8
- Fieldline Wireless IO M12

	UC-TM 5 UCT-TM 5	UC1U-TM 5	UC-TM 6 UCT-TM 6	UC-TM 16 UCT-TM 16	UC-TMF 5 UCT-TMF 5	UC-TMF 6 UCT-TMF 6	UC-TMF 8 UCT-TMF 8	UC-TMF 10 UCT-TMF 10	UC-TMF 12 UCT-TMF 12	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)
Inline Modular, Inline Block IO														
INTERBUS ST...														
Fieldline Stand-Alone M12														
Fieldline Modular M12														
Fieldline Modular M8														
Fieldline Extension M8														
Fieldline Wireless IO M12														

Device marking

Device marking for devices from other manufacturers



	UC-EM (10X8)	UC-EM (17,5X7,5)	UC-EM (17,5X8)	UC-EM (17,5X9)	UC-EM (19X9)	UC-EM (20X7)	UC-EM (20X9)	UC-EM (21X8)
ABB								
Miniature circuit breaker S 221... - S 223..., S 281...-S 284...								
Residual current circuit breaker F271... F172...								
Switch, button, indicator light E 221..., E 222..., E 223...								
Switch, button, indicator light E 225..., E 226..., E 227..., E 227...								
Power dimmer STD...								
Power supply unit NTLS...								
Power distributor counter RS 232...								
Installation contactor ESB..., EN...								
Miniature circuit breaker LE1..., LE3..., LP1-3..., LPUC 1/2, LP1NA..., LP3NA...								
Residual current circuit breaker F..., FIP..., FIK..., FI-LP..., FIS...								
FI signal encoder FISG...								
Load switch IS...								
Surge arrester SA 4...								
Logic module								
Logic and extension module LM..., DO..., DX...								
ifm-electronic								
Classicline distribution module AC52...								
Active AS-i module AC2480								
Module lower part AC50...								
Active AS-i module AC225...								
Lumberg								
INTERBUS remote bus terminal block								
Profibus-DP...								
CANopen-compliant device CSL...								
DeviceNet-compliant device DSL...								
AS-Interface module								
Ethernet switch EEC...								
Actuator/sensor box ASB								
Valve adapter VAD...								
Valve adapter VBD...								
I/O module UEM ...								
Profibus-DP PSL 7...								
AS-Interface module ASL 501								



	UC-EM (10X7)	UC-EM (10X8)	UC-EM (17,5X7,5)	UC-EM (17,5X8)	UC-EM (17,5X9)	UC-EM (19X9)	UC-EM (20X7)	UC-EM (20X9)	UC-EM (21X8)	EMT (50/28X13)R...	EMT (50x26)R...	EMT (103X17)R...	EMT (103X23)R...
Moeller													
Function relay DILET 11..., DILET 70..., EMR 4...													
Basic device and extension module EASY 5..., EASY 7..., EASY 2..., EASY 6..., EASY 200-EASY													
Contactors DILER, DILEM													
Relay ZE..., ZEV...													
MURR ELEKTRONIK													
Plastic M12 distributor systems													
Siemens													
ASI Slaves I/O module K45.../K60...													
ASIsafe module K45.../K60..., mounting plate K45/K60													
ASI Slaves SlimLine S22.5.../S45...													
ASI Slaves counter module, earth fault detection module													
ASI Slaves surge protection module													
ASI repeater, 4x distributor, round cable distributor													
ASI compact module K20...													
Contactors, auxiliary contactors, contactor combination, auxiliary switch block													
Auxiliary switch blocks 3RH 1921													
EMC interference suppression module													
Solid-state relay, semiconductor protection, function module													
Circuit breaker, el. overload relay, therm. overload relay													
Soft starter, direct starter													
Motor management and control units, timer relay, monitoring relay, safety relay													
ET 200S													
S7-300													

Device marking

Device marking for devices from other manufacturers



UC-EM (18X8)

UC-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 1610, 1611, 1620, 2502

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 1611, 1620

Motor output combination TeSys LD1...

Motor output combination HL contactors LD4...

Motor output combination/reversing combination LD5...



Weidmüller	UC1-TMF 5 UCT1-TMF 5	UC1-TM 5 UCT1-TM 5	UC-EM (19X9)	UC-EM (17,5X9)
M8 distributor systems	■			
M5 distributor systems		■		
Sensor Actuator Interface Line		■		
Sensor Actuator Interface Line		■		
M12 distributor systems			■	
M12 metal distributor systems				■

MARKING system

Device marking

Marker carriers from Phoenix Contact



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 (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)	UC-EMP (27X18) US-EMP (27X18) US-EMLP (27X18) EML (26,5X17,5)R ... EMLP (27X18)R SR	UC-EMP (27X27) US-EMP (27X27) US-EMLP (27X27) EML (26,5X26,5)R SR EMLP (27X27)R SR
■				
	■			
		■		
			■	
				■
■				
	■			
		■		
			■	
				■



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

UC-EMP (17X15) US-EMP (17X15)	UC-EMP (27X15) US-EMP (27X15)	UC-EMP (49X15) US-EMP (49X15)	UC-EMP (60X15) US-EMP (60X15)	UC-EMP (60X30) US-EMP (60X30)	US-EMP (85,6X54)
■					
	■				
		■			
			■		
				■	
					■
■	■	■	■		
■	■	■	■		
■	■	■	■		
■	■	■	■		



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)
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Brand	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	[Solid teal bar]										
MA6-1060											
BSH-A											
BSH-B											
Conta-Clip	[Solid teal bar]										
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	[Solid teal bar]										
SIT 0A06...											
SIT 0A07...											
SIT 0B05...											
SIT 0B07...											
SIT 0B08...											
SIT 0B09...											
Moeller	[Solid teal bar]										
M22S-ST-X											
Murrplastik	[Solid teal bar]										
BT 22.5											
BTK 22.5											
BT Harmony ZB4											
BT 15/27											
BT 15/49											
Siemens	[Solid teal bar]										
3SB3922-0AY											
3SB3925-0AV											
3SB1906-2AA											
3SB1906-2AV											
Empty housing 3SB38...											
Weidmüller	[Solid teal bar]										
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											

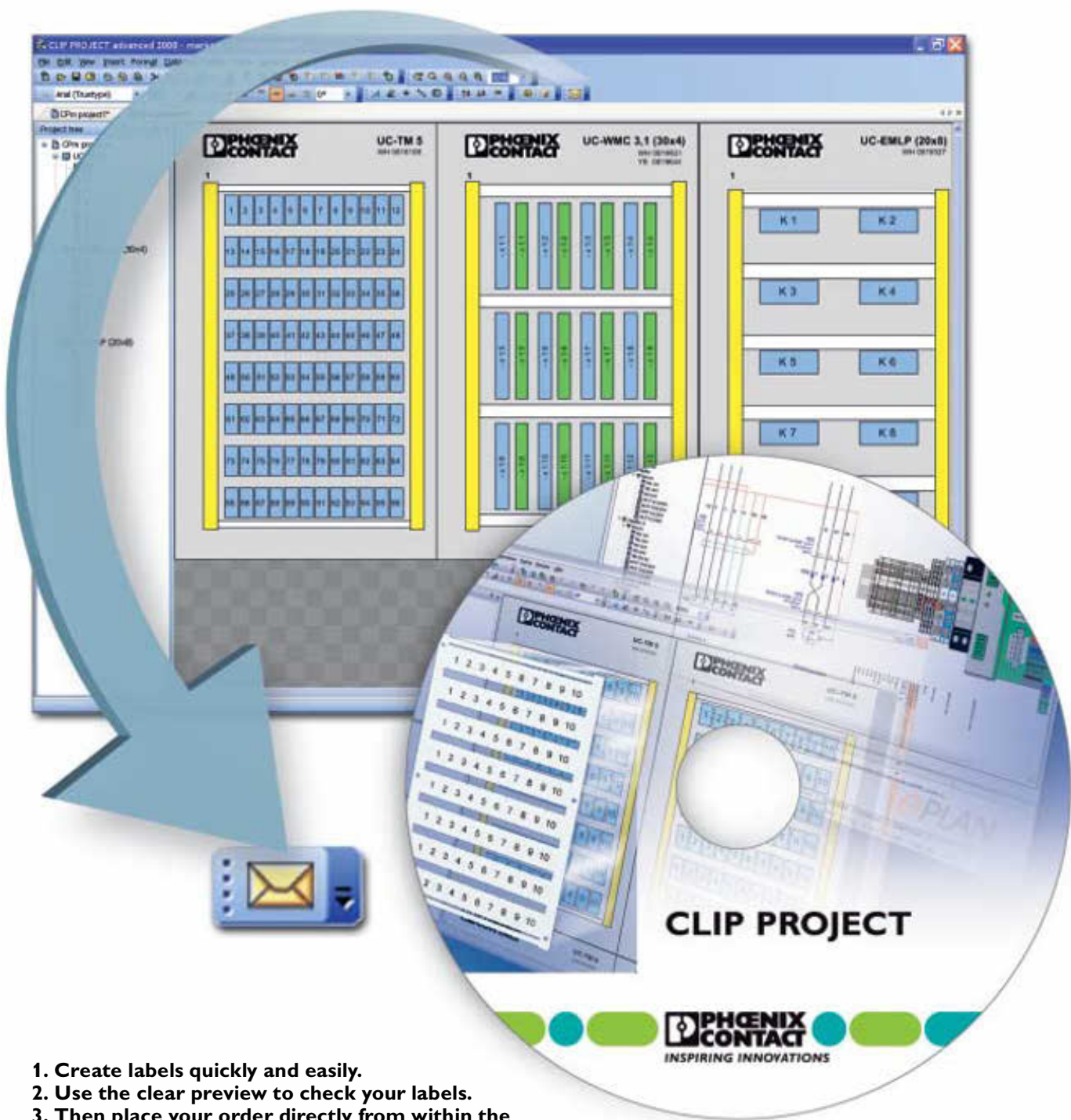
MARKING system

Device marking

Ordering special labels with CLIP PROJECT

Phoenix Contact offers a labeling service for all marking materials. We can provide you with marking materials labeled in accordance with your requirements in next to no time.

Simply plan and place your order at the click of a mouse



1. Create labels quickly and easily.
2. Use the clear preview to check your labels.
3. Then place your order directly from within the software.

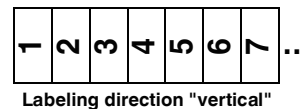
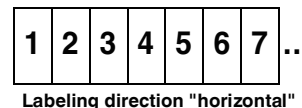
Ordering special labels via fax or e-mail

Minimum order quantities:

- Plastic sheets: 1 sheet
- Paper sheets: 1 sheet
- Rolls: 1 strip (row), i.e., in the case of EML (20x8)R, for example, 4 labels

The following information must be provided when ordering labels:

- Order No. of the relevant ...CUS material
- Label text
- Font size
- Read direction "horizontal" or "vertical"
- Normal or bold print
- Please send special characters, symbols, and logos as a bitmap file



		120 markers for a terminal block width of 4.2 mm			96 markers for a terminal block width of 5.2 mm		
General data		Technical data			Technical data		
Can be printed with:		BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER			BLUEMARK X1, BLUEMARK LED, CMS-P1-PLOTTER		
Number of individual markers		120			96		
Number of individual markers per strip		15			12		
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		Silicone and halogen-free			Silicone and halogen-free		
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
UniCard sheet, for labeling terminal blocks using a zack marker strip groove, can be labeled with BLUEMARK and CMS-P1-PLOTTER							
	white	UC-TM 4	0818111	10	UC-TM 5	0818108	10
	red	UC-TM 4 RD	0818250	10	UC-TM 5 RD	0818302	10
	orange	UC-TM 4 OG	0818221	10	UC-TM 5 OG	0818276	10
	yellow	UC-TM 4 YE	0818234	10	UC-TM 5 YE	0818289	10
	violet	UC-TM 4 VT	0819084	10	UC-TM 5 VT	0819107	10
	blue	UC-TM 4 BU	0818247	10	UC-TM 5 BU	0818292	10
	green	UC-TM 4 GN	0818263	10	UC-TM 5 GN	0818315	10
UniCard sheet, for labeling terminal blocks using a zack marker strip groove, labeled acc. to customer specifications							
	white	UC-TM 4 CUS	0824573	1	UC-TM 5 CUS	0824581	1
	red	UC-TM 4 RD CUS	0824577	1	UC-TM 5 RD CUS	0824585	1
	orange	UC-TM 4 OG CUS	0824576	1	UC-TM 5 OG CUS	0824584	1
	yellow	UC-TM 4 YE CUS	0824579	1	UC-TM 5 YE CUS	0824587	1
	violet	UC-TM 4 VT CUS	0824578	1	UC-TM 5 VT CUS	0824586	1
	blue	UC-TM 4 BU CUS	0824574	1	UC-TM 5 BU CUS	0824582	1
	green	UC-TM 4 GN CUS	0824575	1	UC-TM 5 GN CUS	0824583	1

Ordering example for UC-TM 5 GN CUS

Vertical consecutive numbering from 1 to 12 is required for 8 identical terminal strips with a pitch of 5 mm. The UC-TM 5 ... sheet has 8 strips, each of which has 12 individual markers. In this case order as follows:

Unit (sheet)	Imprint	Order No.
1	Numbers: 1 to 12 Font size: 10 pt Read direction: Vertical Normal printing	0824583



TOOL fox – Hand tools

The TOOL fox range of tools offers 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 guarantee maximum service life. Automatic cutting devices, stripping machines, and crimping machines can be used to automate work steps.

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Professional cutting



Professional stripping



Professional crimping with up to 25 percent less force



There is an optimum cable cutter 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.



The comprehensive range of combination tools ensures all applications are covered. The safety tools, which feature 2-component slip-proof handles, are VDE-tested and marked according to DIN EN 60900.



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.



The WIREFOX-D SHIELD stripping pliers provide an easy way to create cable cutouts and tap-offs. These pliers are ideal for stripping shielded cables.



The extensive range of professional crimping pliers can be used to process all types of contact 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 a diameter of 12 mm (up to 35 mm ²)
Cable cutter , angled, for copper and aluminum up to a diameter of 18 mm (up to 50 mm ²)

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 12	1212128	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
- Suitable for conductors with a diameter of up to 52 mm
- With ratchet function for minimum effort
- Can be unlocked
- Superb cutting quality



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
Ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 45 mm (up to 300 mm ²)
Ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 52 mm (up to 300 mm ²)

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
- Suitable for conductors with a max. diameter of 35 mm
- With ratchet function for minimum effort
- 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 25 mm



Up to a maximum conductor diameter of 35 mm

Description
Cable cutter , with ratchet function, for copper and aluminum up to a diameter of 25 mm (up to 185 mm ²)
Cable cutter , with ratchet function, for copper and aluminum up to a diameter of 35 mm (up to 300 mm ²)

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 25	1212130	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 35	1212131	1

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 unlocked
- Superb cutting quality



Up to a maximum conductor diameter of 62 mm



Up to a maximum conductor diameter of 100 mm

Description
Two-handed ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 62 mm (up to 750 mm ²)
Two-handed ring cable cutter , with ratchet function, for copper and aluminum up to a diameter of 100 mm (up to 1400 mm ²)

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 62	1212134	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 100	1212135	1

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



Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cutting tool , for separating individual jumper bars from FBS ... plug-in bridges and EB ... insertion bridges	CUTFOX-FBS	1212124	1			
Cutting tool , for cutting FBI ... fixed bridges to length				CUTFOX FB	1205985	1
Cutting capacity single/multiple/fine strand: 6/10/25 mm ²						
Cable cutter , precision blade with macro-notching, for copper and aluminum up to 50 mm ² , VDE 1000 V AC/1500 V DC tested						
Cable cutter , precision blade with macro-notching, for copper and aluminum up to 70 mm ² , VDE 1000 V AC/1500 V DC tested						
black						
Cable cutter , for laminated power rails/ribbed tape measuring up to 6 x 16 x 0.8 mm, copper and aluminum cables up to 50 mm ² , VDE 1000 V AC, 1500 V DC						
black						
Diagonal cutter , with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested						
Power diagonal cutter , with optimized leverage, also suitable for piano wire, VDE 1000 V AC/1500 V DC tested						



Cable cutter for conductors with a diameter of up to 16 mm, (VDE)



Cable cutter for conductors and ribbed tape with a diameter of up to 16 mm (VDE)



Diagonal cutter, also suitable for piano wire (VDE)



Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 16 VDE	1212126	1
CUTFOX 25 VDE	1212127	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-LB VDE	1212527	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-S VDE	1212207	1
CUTFOX-SP VDE	1212206	1

Hand tools

UNIFOX universal tools

- UNIFOX ... VDE fully-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

Description	Color
Combination pliers , cross-notched grip area, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested	black
Combination pliers , angled design, with opening spring and locking device, cross-notched grip area, integrated M8 - M10 ring wrench, VDE 1000 V AC/1500 V DC tested	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-C VDE	1212202	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-CE VDE	1212203	1

UNIFOX universal tools

N

- 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), angled

Description	Color
Needle-nose pliers with cutter , notched grip area, VDE 1000 V AC/1500 V DC tested	black
Needle-nose pliers with cutter , angled 45°, notched grip area, VDE 1000 V AC/1500 V DC tested	black
Needle-nose pliers , angled design, with opening spring and locking device, finely notched grip area, 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	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-P VDE	1212204	1
UNIFOX-PC VDE	1212205	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-PE VDE	1212529	1

UNIFOX universal tools

- UNIFOX ... VDE fully-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
Flat-nose pliers , finely notched grip area, VDE 1000 V AC/1500 V DC tested	black
Round-nose pliers , finely notched grip area, VDE 1000 V AC/1500 V DC tested	black
Water pump pliers , with groove joint, grip areas with dual notching, acc. to VDE ISO 8976	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-F VDE	1212363	1
UNIFOX-R VDE	1212364	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
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
Cable binder pliers , for steel cable binders with a width of up to 7.9 mm, for a material thickness of up to 0.3 mm

Ordering data		
Type	Order No.	Pcs. / Pkt.
UNIFOX-CT 4,8	1212475	1
UNIFOX-CT 4,8P	1212609	1
UNIFOX-CT M 7,9	1212610	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 the terminal blocks

Notes:
For high-current feed-through terminal blocks, see "COMBICON device connection technology and electronics housing" catalog.



Blind rivet pliers

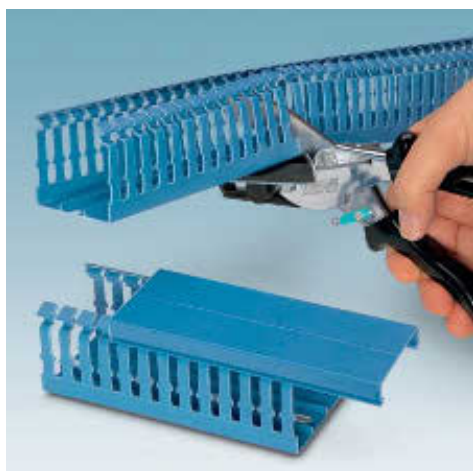


Blind riveting with diameters of 2.4 to 5 mm



		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 2.4/8 mm, for UW 4... terminal blocks 3/6 mm 3/8 mm 3/10 mm 3/12 mm, for UW 10..., UW 16..., and RW 5... terminal blocks 3.2/6 mm 3.2/8 mm 3.2/10 mm 3.2/12 mm 4/6 mm 4/8 mm 4/10 mm 4/12 mm 4/14 mm, for UW 25... and RW 8... terminal blocks 4.8/6 mm 4.8/8 mm 4.8/10 mm 4.8/12 mm 4.8/14 mm 4.8/16 mm					RVT-AL/ST 2,4L/8 RVT-AL/ST 3/6 RVT-AL/ST 3/8 RVT-AL/ST 3/10 RVT-AL/ST 3/12 RVT-AL/ST 3,2/6 RVT-AL/ST 3,2/8 RVT-AL/ST 3,2/10 RVT-AL/ST 3,2/12 RVT-AL/ST 4/6 RVT-AL/ST 4/8 RVT-AL/ST 4/10 RVT-AL/ST 4/12 RVT-AL/ST 4/14 RVT-AL/ST 4,8/6 RVT-AL/ST 4,8/8 RVT-AL/ST 4,8/10 RVT-AL/ST 4,8/12 RVT-AL/ST 4,8/14 RVT-AL/ST 4,8/16	3240548 3240504 3240505 3240506 3240507 3240509 3240510 3240511 3240512 3240513 3240514 3240515 3240516 3240517 3240518 3240519 3240520 3240521 3240553 3240522	500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500
		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]

Technical data		
Width	Length	Height
-	245	-
0.43		

Description	Color
Cable duct cutter	black

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 rail	[mm]
Length of the hand lever	[mm]

Technical data		
Width	Length	Height
285	280	290
1000		
500		

Description	Color
Cable duct cutter	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS CD M	1207569	1

Replacement blade, for PPS CD M		
Replacement counter support blade (grip protection), for PPS CD M		
Workbench, with 700 x 1200 x 50 mm plywood panel, 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



DIN rail cutter

- The PPS BASIC I/M is the lightweight version of the profile cutters. It can be used to process the popular NS 35/15, NS 35/7,5, and NS 15 types of EN DIN rail, as well as 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 rail	[mm]
Length of the hand lever	[mm]

Technical data		
Width	Length	Height
150	60	180

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
As above, 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
As above, but with inch/metric measuring rail	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
PPS BASIC I/M	1207585	1

Stamping bit , for elongated holes, longitudinal 3.5 x 12 mm 4.5 x 12 mm 5.5 x 12 mm 6.35 x 15 mm 6.5 x 15 mm
Stamping bit , for elongated holes, transverse 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, 6 1/4" connection thread, with spring reset
Workbench , with 700 x 1200 x 50 mm plywood panel, 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

Ordering data

Type	Order No.	Pcs. / Pkt.
PPS STANDARD M	1206175	1
PPS STANDARD I/M	1206230	1

Technical data

Width	Length	Height
250	100	230
19	1000	1000

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 (6,35X15)L	1204876	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

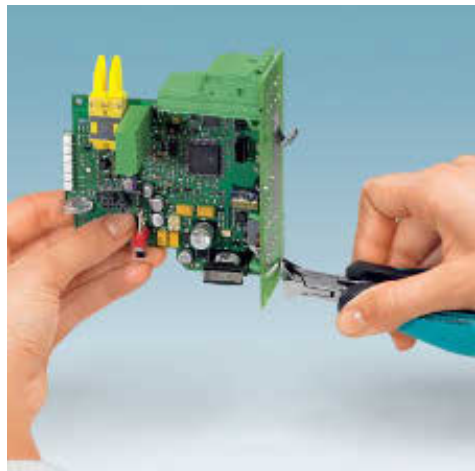
Accessories

PPS-ST (3,5X12)L	1203563	1
PPS-ST (4,5X12)L	1203534	1
PPS-ST (5,5X12)L	1202603	1
PPS-ST (6,35X15)L	1204876	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

MICROFOX electronic pliers

Notes:

For technical data regarding cutting capacity, visit www.phoenixcontact.net/catalog



Diagonal cutter, with chamfer



Ordering data

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
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

Type	Order No.	Pcs. / Pkt.
MICROFOX-SB	1212489	1
MICROFOX-SP	1212488	1
MICROFOX-SP-1	1212487	1

Miniature precision pliers feature the following:

- Ergonomically designed two-component handle for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Through-connected joint for permanent stability and optimum distribution of force
- Mirror-polished and oiled metal surfaces, which provide maximum rust protection

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending



Front cutter



Needle-nose pliers



Flat/round-nose pliers



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E	1212494	1
MICROFOX-EO	1212495	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-P	1212491	1
MICROFOX-PC	1212492	1

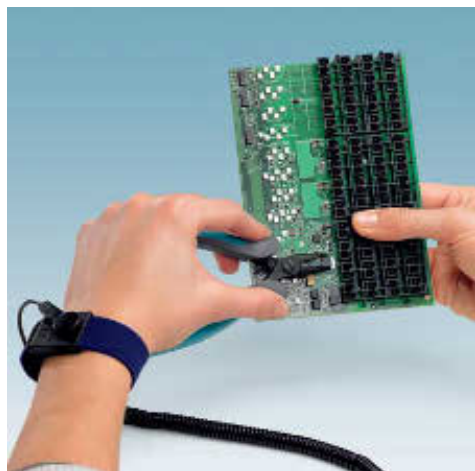
Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-F	1212493	1
MICROFOX-R	1212490	1

MICROFOX ESD electronic pliers

Notes:
 For technical data regarding cutting capacity, visit www.phoenixcontact.net/catalog



ESD diagonal cutter



ESD MICROFOX pliers offer the following features:

- The special conductive plastic grip ensures slow and safe removal of electrostatic energy according to standards and directives such as DIN EN 61340-5
- Ergonomically designed two-component handle for fatigue-proof and non-slip use
- Manufactured from high-grade special tool steel
- Opening spring for uniform, smooth opening
- Screwed precision-joint for permanent stability and optimum results
- Mirror-polished and phosphate-treated metal surfaces for optimum rust protection and no glare when working

Cutting pliers

- Additional inductive hardened cutting for long-term, stable cutting performance
- Precision-ground for exact cutting applications with minimum effort
- Various head shapes, even for areas that are difficult to access

Gripping and bending pliers

- Smooth grip to prevent damage to components when gripping and bending



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-S ESD	1212480	1

Description
ESD electronic diagonal cutter, round head, without chamfer, with opening spring
ESD electronic front cutter, without chamfer, with opening spring
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



ESD front cutter



ESD needle-nose pliers



ESD flat/round-nose pliers



Ordering data		
Type	Order No.	Pcs. / Pkt.
MICROFOX-E ESD	1212485	1



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

WIREFOX stripping tools

- WIREFOX ... stripping pliers are characterized by their mechanism that adjusts automatically to all kinds of insulation and conductor diameters
- Practical integrated wire cutter
- Highly adjustable limit stop for the stripping length



0.08 - 2.5 mm² conductor cross section



Conductor cross section of 0.1 - 4 mm² for special applications



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	0.08 - 2.5 / 28 - 12	
Stripping length up to ...	15	
Wire cutter solid // stranded	2.5 / 14 // 6 / 10	

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, angled design, for 0.08 mm - 2.5 mm² cables and conductors, self-adjusting, stripping length of up to 15 mm, cutting capacity: solid up to 2.5 mm², stranded up to 6 mm²

black

Stripping tool, for 0.1 - 4 mm² cables and conductors (specifically also intended for rubber and other kinds of special insulation), self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

black

Stripping tool, for 1.5 - 6 mm² cables and conductors (specifically for short-circuit-proof cables), self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

black

Stripping tool, for 0.02 - 10 mm² cables and conductors, self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

black

Stripping tool, for 4 - 16 mm² cables and conductors, self-adjusting, stripping length of up to 18 mm, cutting capacity: solid up to 1.5 mm², stranded up to 10 mm²

black

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX 2,5	1212368	1

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX 4	1212156	1

Replacement blade
Replacement limit stop

Accessories		
WIREFOX 2,5/SB	1212369	1
WIREFOX 2,5/WS	1212370	1

Accessories		
WIREFOX 4/SB	1212151	1



Conductor cross section of 1.5 - 6 mm², 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

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 6SC	1212158	1

Accessories		
Type	Order No.	Pcs. / Pkt.
WIREFOX 6SC/SB	1212314	1



Technical data
0.02 - 10 / 34 - 8
18
1.5 / 16 // 10 / 8

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 10	1212150	1

Accessories		
Type	Order No.	Pcs. / Pkt.
WIREFOX 10/SB	1212152	1



Technical data
4 - 16 / 12 - 5
18
1.5 / 16 // 10 / 8

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 16	1212155	1

Accessories		
Type	Order No.	Pcs. / Pkt.
WIREFOX 16/SB	1212153	1

Hand tools

WIREFOX stripping tools

– WIREFOX ... stripping pliers are characterized by their mechanism that adjusts automatically to all kinds of insulation and conductor diameters



Conductor cross section of 6 - 16 mm², any stripping length



Conductor cross section of 8 - 9 mm²



Conductor/cable stripping range	
Conductor / cable	[mm ²] / AWG

Technical data		
Conductor/cable stripping range		
Conductor / cable		6 - 16 / 10 - 5

Technical data		
Conductor/cable stripping range		
Conductor / cable		- / -

Description	Color
Stripping pliers , for 6 - 16 mm ² cables and conductors, self-adjusting, any stripping length, also suitable for sensor/actuator cables	black
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
Stripping pliers , for removing jackets from cables for cable cut-outs, 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
Stripping pliers , for 0.75 - 2.5 mm ² flat-ribbon conductors up to 15 mm wide, any stripping length	black
Stripping pliers , for AS-Interface flat-ribbon conductors, any 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

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 16-1	1212157	1
WIREFOX SAC	1212623	1
WIREFOX-D SHIELD	1212172	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX 16-1	1212157	1
WIREFOX SAC	1212623	1
WIREFOX-D SHIELD	1212172	1

Replacement blade	
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Accessories		
WIREFOX 16-1/SB	1204944	1

Accessories		
WIREFOX 16-1/SB	1204944	1



For flat cables

N



Conductor cross section of 0.2 - 10 mm²,
(VDE)

N



Multifunctional tool

N



Technical data

0.75 - 2.5 / 18 - 12

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX FC	1212619	1
WIREFOX ASI	1212154	1

Accessories

WIREFOX ASI/SB	1208076	1
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Technical data

0.2 - 10 / 24 - 8

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX 10 VDE	1212366	1

Accessories

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Technical data

0.2 - 10 / 24 - 8

Ordering data

Type	Order No.	Pcs. / Pkt.
WIREFOX-MP VDE	1212528	1

Accessories

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WIREFOX stripping tools



- Large selection of precision stripping tools
- The right tool for every application
- Can be used to strip conductors and cables with all kinds of insulation up to a diameter of 40 mm



Conductor diameter of 2.5 - 11 mm



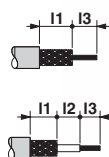
Conductor diameter of 8 - 13 mm



			Ordering data			Ordering data		
Description	Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Stripping tool , for stripping multicore signal, control and glass fiber cables with 2.5 - 11 mm Ø, insulation thickness of up to 1 mm	black		WIREFOX-D 11	1212160	1			
Stripping tool , for stripping installation cables 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 blade	black					WIREFOX-D 13	1212162	1
Stripping tool , for stripping cables (especially fiber optic cables) with 4 - 16 mm Ø	black							
Stripping tool , for stripping cables with 8 - 28 mm Ø	black							
Stripping tool , for stripping cables with 4.5 - 40 mm Ø, insulation thickness of up to 4.5 mm, swivel blade for round, longitudinal, and spiral cuts	black							
Stripping tool , for coaxial cables with 2.5 - 7.6 mm Ø	black							
2-stage, setting dimension l1 = 6.0 mm	black							
2-stage, setting dimension l1 = 9.2 mm	black							
2-stage, setting dimension l1 = 12 mm	black							
2-stage, setting dimension l1 = 6.8 mm	black							
3-stage, setting dimension l1 = 5.5 mm, l2 = 5.5 mm	black							
3-stage, setting dimension l1 = 2.7 mm, l2 = 8.3 mm	black							
3-stage, setting dimension l1 = 6.0 mm, l2 = 6.0 mm	black							
3-stage, setting dimension l1 = 2.5 mm, l2 = 6.8 mm	black							
3-stage, setting dimension l1 = 3.5 mm, l2 = 7.5 mm	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 standard 2.5, 4, and 6 mm ² solar cables, with 15 mm length stop, for SUNCLIX field connectors	black							
			Accessories			Accessories		
Replacement blade			WIREFOX-D 11/SB	1212312	1			



Conductor diameter of 4 - 40 mm



For coaxial cables,
conductor diameter of 2.5 - 7.6 mm



For solar cables,
conductor cross section of 2.5 - 6 mm²



Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 16	1212173	1
WIREFOX-D 28	1212174	1
WIREFOX-D 40	1212161	1

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

Ordering data		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D SR 6	1212507	1
WIREFOX-D SR 6-1	1212511	1

Accessories		
Type	Order No.	Pcs. / Pkt.
WIREFOX-D 40/SB	1212313	1

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

Accessories		
Type	Order No.	Pcs. / Pkt.

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
- Pressure lock can be unlocked
- Marked die stations for precise processing of the relevant cross sections

CRIMPFOX 6S .../ ...T

- 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

Notes:
Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Conductor cross section of 0.25 - 6 mm²

Area of application	
Conductor	[mm ²] / AWG
Compression	

Technical data	
Conductor	0.25 - 6 / 24 - 10
Compression	Trapezoidal crimp

Description	
Crimping pliers , for ferrules acc. to DIN 46228-1 and DIN 46228-4, five marked die stations, pressure lock can be unlocked, lateral entry	black
Crimping pliers , for ferrules acc. to DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be unlocked, front entry	black
Crimping pliers , for ferrules acc. to DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be unlocked, lateral entry	black
Crimping pliers , for ferrules acc. to DIN 46228-1 and DIN 46228-4, self-adjusting die, pressure lock can be unlocked, front entry	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6	1212034	1

Replacement die	
Replacement recuperating spring	

Accessories		
CRIMPFOX 6/DIE	1212035	1
CRIMPFOX/ SPR-3	1212036	1



Conductor cross section of 0.5 - 6 mm²



Conductor cross section of 0.25 - 6 mm²



Conductor cross section of 0.25 - 6 mm²



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
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Technical data

0.25 - 6 / 24 - 10
Trapezoidal crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6T	1212037	1

Accessories

CRIMPFOX/ SPR-1	1212069	1
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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
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Hand tools

CRIMPFOX crimping pliers for ferrules

- These compact crimping pliers have been designed to reduce effort when working
- The way in which the handles and the die are arranged means that the ferrules can be fitted however the tool is held

Notes:
Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Conductor cross section of 0.14 - 10 mm²



Conductor cross section of 0.14 - 6 mm²



Area of application	
Conductor	[mm ²] / AWG
Compression	
Description	
Crimping pliers , for ferrules acc. to DIN 46228, 0,14 - 10 mm ² , pressure lock can be unlocked, lateral entry	
Crimping pliers , for ferrules acc. to DIN 46228, 0,14 - 6 mm ² , pressure lock can be unlocked, lateral entry	
Replacement recuperating spring	

Technical data		
0.14 - 10 / 25 - 7 Square crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 10S	1212045	1
Accessories		
CRIMPFOX/SPR-2	1212047	1

Technical data		
0.14 - 6 / 25 - 10 HEX crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX 6H	1212046	1
Accessories		
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



Conductor cross section of 10 - 25 mm²



Conductor cross section of 35 - 50 mm²

Notes:
Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Area of application

Conductor [mm²] / AWG
Compression

Description

Crimping pliers, for ferrules acc. to DIN 46228-1 and DIN 46228-4, three marked die stations, pressure lock can be unlocked, lateral entry

Crimping pliers, for ferrules acc. to DIN 46228-1 and DIN 46228-4, two marked die stations, pressure lock can be unlocked, lateral entry

Replacement die

Replacement recuperating spring

Technical data

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

Technical data

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

Hand tools

CRIMPFOX crimping pliers for cable lugs and connectors

- Pressure lock can be unlocked
- They unlock as soon as the required crimping pressure is attained, thus ruling out the possibility of too little pressure
- The color-coded dies clearly indicate the cross section

Notes:

Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Conductor cross section of 0.14 - 1 mm²



Conductor cross section of 0.75 - 2.5 mm²



Technical data

0.14 - 1 / 26 - 18
Oval crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RCI 1	1212055	1

Accessories

CRIMPFOX-RCI 1/DIE	1212056	1
CRIMPFOX/ SPR-3	1212036	1



Technical data

0.75 - 2.5 / 20 - 14
Oval crimp

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RCI 2,5	1212053	1

Accessories

CRIMPFOX-RCI 2,5/DIE	1212054	1
CRIMPFOX/ SPR-3	1212036	1

Area of application

Conductor [mm²] / AWG
Compression

Description

Crimping pliers, for insulated cable lugs (light green, red), three marked die stations, pressure lock can be unlocked, lateral entry

Crimping pliers, for insulated cable lugs (red, blue), two marked die stations, pressure lock can be unlocked, lateral entry

Replacement die

Replacement recuperating spring

CRIMPFOX crimping pliers for cable lugs and connectors

- The CRIMPFOX-RCI 6 /... are an important addition to the range as top-of-the-line cable lug crimping pliers
- Precision-manufactured dies ensure consistently high levels of quality during contact processing

Notes:
Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Conductor cross section of 0.75 - 6 mm²



Conductor cross section of 0.75 - 6 mm²

Area of application	
Conductor	[mm ²] / AWG
Compression	
Description	
	Color
Crimping pliers, for insulated cable lugs symmetric (red, blue, yellow), three marked die stations, pressure lock can be unlocked, lateral entry	
	black
Crimping pliers, for insulated cable lugs asymmetric (red, blue, yellow), three marked die stations, pressure lock can be unlocked, lateral entry	
	black
Replacement die	
Replacement recuperating spring	

Technical data		
0.75 - 6 / 20 - 10 Oval crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RCI 6	1212057	1
Accessories		
CRIMPFOX-RCI 6/DIE	1212058	1
CRIMPFOX/ SPR-1	1212069	1

Technical data		
0.75 - 6 / 20 - 10 Oval crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RCI 6-1	1212059	1
Accessories		
CRIMPFOX-RCI 6-1/DIE	1212290	1
CRIMPFOX/ SPR-1	1212069	1

Hand tools

CRIMPFOX crimping pliers for un-insulated cable lugs

- For processing uninsulated cable lugs
- Compact and lightweight design
- Pressure lock can be unlocked
- Consistently high crimping quality
- Ergonomically designed handles ensure an optimum grip and help avoid fatigue when working
- Lateral conductor entry
- 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 304.



Conductor cross section of 0.75 - 2.5 mm²

Area of application	
Conductor	[mm ²] / AWG
Compression	
Description	
Crimping pliers, for uninsulated cable lugs, three marked die stations, pressure lock can be unlocked, lateral entry	
Replacement die	
Replacement recuperating spring	

Technical data		
0.75 - 2.5 / 20 - 14 Indent crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 2,5	1212063	1
Accessories		
CRIMPFOX-RC 2,5/DIE	1212064	1
CRIMPFOX/ SPR-3	1212036	1

CRIMPFOX crimping pliers for un-insulated cable lugs

- The CRIMPFOX-RC 10 and ...RCT 25-1 round off the range of crimping pliers for uninsulated cable lugs and insulated tube lugs
- All pliers of this type reduce the amount of force required during crimping by 25 percent

Notes:

Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Conductor cross section of 4 - 10 mm²



Conductor cross section of 10 - 25 mm²

Area of application	
Conductor	[mm ²] / AWG
Compression	
Description	
Crimping pliers, for uninsulated tube lugs	
	black
Crimping pliers, for commercially available, uninsulated tube lugs	
	black
Replacement die	
Replacement die	
Replacement recuperating spring	

Technical data		
4 - 10 / 12 - 8 Indent crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 10	1212061	1
Accessories		
CRIMPFOX-RC 10/DIE	1212062	1
CRIMPFOX/ SPR-1	1212069	1

Technical data		
10 - 25 / 8 - 4 HEX crimp		
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-RC 25	1212065	1
CRIMPFOX-RCT 25-1	1212066	1
Accessories		
CRIMPFOX-RC 25/DIE	1212299	1
CRIMPFOX-RCT 25-1/DIE	1212300	1
CRIMPFOX/ SPR-1	1212069	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 304.
For more dies, see www.phoenixcontact.net/catalog .



Description	Color
Basic pliers , with ratchet function, for accommodating dies for various contacts Up to 50 mm ² Two-hand operation of up to 120 mm ²	black black

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C50	1212340	1

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-C120	1212318	1

Accessories	
Die upper part , for ferrules 50 mm ² , 70 mm ² , trapezoidal crimp For 95 mm ² Die lower part , for ferrules 50 mm ² , trapezoidal crimp For 70 mm ² For 95 mm ² Die (pair) , for insulated cable lugs, 10 mm ² , oval crimp For 16 mm ² For 25 mm ² For 35 mm ² Die upper part , for uninsulated cable lugs, (DIN 46234) 6 - 35 mm ² , indent crimp For 6 - 70 mm ² Die lower part , for uninsulated cable lugs, 25 mm ² , indent crimp For 35 mm ² For 10, 16, 25, 35 mm ² For 6, 50 mm ² For 10, 70 mm ² Die (pair) , for copper tube lugs, 35 mm ² , WM crimp For 16, 35 mm ² For 50 mm ² For 25, 50 mm ² For 10, 70 mm ² For 95 mm ² For 120 mm ² Pre-round die (pair) , for sector cable, 25, 35 mm ² For 35, 50 mm ² For 50, 70 mm ² For 25, 50 mm ² For 35, 70 mm ² For 95 mm ²	

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

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 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 uninsulated slip-on sleeves

- For processing uninsulated flat connectors and slip on sleeves with a cross section of up to 6 mm²
- Pressure lock can be unlocked
- Consistently high crimping quality
- Marked die stations for precise processing of the relevant cross sections



Conductor cross section of 0.1 - 1.5 mm²



Conductor cross section of 0.5 - 6 mm²

Notes:
Suitable ferrules, cable lugs, and flat connectors have been documented, see from page 304.



Technical data		
Area of application	[mm ²] / AWG	
Conductor	0.1 - 1.5 / 26 - 16	
Compression	B crimp	
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 1,5	1212048	1
Accessories		
CRIMPFOX-SC 1,5/DIE	1212049	1
CRIMPFOX/ SPR-3	1212036	1



Technical data		
Area of application	[mm ²] / AWG	
Conductor	0.5 - 6 / 22 - 10	
Compression	B crimp	
Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX-SC 6	1212050	1
CRIMPFOX-SC 6L	1212052	1
Accessories		
CRIMPFOX-SC 6/DIE	1212051	1
CRIMPFOX/ SPR-1	1212069	1

Description	Color
Crimping pliers , for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, pressure lock can be unlocked, lateral entry	black
Crimping pliers , for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, pressure lock can be unlocked, lateral entry	black
Crimping pliers , for 2.8 / 4.8 / 6.3 mm uninsulated slip-on sleeves, three marked die stations, pressure lock can be unlocked, lateral entry, incl. positioning tool	black
Replacement die	
Replacement recuperating spring	

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

Area of application		Technical data		
Conductor	[mm ²] / AWG	0.5 - 4 / 22 - 12		
Compression		Square crimp		
Description		Ordering data		
Color		Type	Order No.	Pcs. / Pkt.
Crimping pliers , for turned contacts with a pin diameter of 1.6 / 2.5 / 4.0 mm		CRIMPFOX-TC 4	1212113	1
- For CK1,6-ED... , CK2,5-ED..., CK4,0-E D... 0,5-4 mm ² turned contacts	black			
For conductor cross sections of 4 - 10 mm ²	black	CRIMPFOX-TC 10	1212114	1
Replacement die		Accessories		
- For CRIMPFOX-TC 4		CRIMPFOX-TC 4/DIE	1212295	1
- For CRIMPFOX-TC 10		CRIMPFOX-TC 10/DIE	1212296	1
Replacement recuperating spring		CRIMPFOX/ SPR-1	1212069	1

CRIMPFOX four-mandrel crimping pliers for turned contacts, with digital display

- Crimping pliers for processing turned contacts of up to 2.5 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 sections up to 2.5 mm²

Area of application		Technical data		
Conductor	[mm ²] / AWG	0.08 - 2.5 / 28 - 13		
Compression		Four-mandrel crimping		
Description		Ordering data		
Color		Type	Order No.	Pcs. / Pkt.
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, pressure lock can be unlocked, lateral entry, including positioning tool		CRIMPFOX-TC MP	1212510	1
	black			

Hand tools

CRIMPFOX crimping pliers for coaxial and fiber optic connectors

- CRIMPFOX–CX... are crimping pliers for processing coaxial connectors
- CRIMPFOX–FO is a set of crimping pliers for processing fiber optic connectors
- Pressure lock can be unlocked
- Lateral conductor entry



Crimping pliers, for coaxial connectors



Crimping pliers, for fiber optic connectors



Area of application		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.
Crimping pliers, for: Coaxial connector 1.69 mm, 3.25 mm, 4.52 mm, three marked die stations, pressure lock can be unlocked, lateral entry, hex crimp		CRIMPFOX-CX 4,52	1212094	1			
Coaxial connector 1.69 mm, 5.41 mm, 6.48 mm, three marked die stations, pressure lock can be unlocked, lateral entry, hex crimp		CRIMPFOX-CX 6,48	1212095	1			
Coaxial connector 1.73 mm, 8.23 mm, 9.14 mm, three marked die stations, pressure lock can be unlocked, lateral entry	black	CRIMPFOX-CX 9,14	1212096	1			
Coaxial connector 2.54 mm, 10.54 mm, two marked die stations, pressure lock can be unlocked, lateral entry	black	CRIMPFOX-CX 10,54	1212097	1			
Coaxial connector 2.54 mm, 10.90 mm, two marked die stations, pressure lock can be unlocked, lateral entry	black	CRIMPFOX-CX 10,90	1212098	1			
Crimping pliers, for fiber optic connector, 3.25 mm, 3.84 mm, 4.52 mm, 5.0 mm, 5.41 mm, five marked die stations, pressure lock can be unlocked, lateral entry					CRIMPFOX-FO 5,41	1212099	1
Crimping pliers for D-SUB contacts, high-density and standard, 0.08 - 0.5 mm², incl. contact locator, B-crimp	black	CRIMPFOX-DSUB 5	1212111	1			
Replacement die		Accessories			Accessories		
		CRIMPFOX-CX 4,52/DIE	1212284	1			
		CRIMPFOX-CX 6,48/DIE	1212286	1			
		CRIMPFOX-CX 9,14/DIE	1212293	1			
		CRIMPFOX-CX 10,54/DIE	1212291	1			
		CRIMPFOX-CX 10,90/DIE	1212292	1			
					CRIMPFOX-FO 5,41/DIE	1212294	1
Replacement die		CRIMPFOX-DSUB 5/DIE	1212287	1			
Replacement recuperating spring		CRIMPFOX/ SPR-3	1212036	1	CRIMPFOX/ SPR-1	1212069	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 mm ² , pressure lock can be unlocked, lateral entry, with three marked die stations
Crimping pliers , B-crimp, for MC4 solar connectors, 2.5 - 6 mm ² , pressure lock can be unlocked, lateral entry, with three marked die stations
Crimping pliers , square crimp, for SOLARLOK solar connectors, 2.5 - 6 mm ² , pressure lock can be unlocked, 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 crimping pliers for female contacts



- Crimping pliers, for crimping conductors to the STG-MTN female contacts of the module
- Optimized mechanical transmission reduces the force required by up to 25 percent
- Four different die stations



Conductor cross section of 0.5 - 2.5 mm²

Description	Color
Crimping pliers , for rolled contacts 0.5 - 2.5 mm ² , four labeled countersunk stations, pressure lock can be unlocked, lateral entry, also for STG-MTN module and socket contacts	black
Replacement die	black

Ordering data		
Type	Order No.	Pcs. / Pkt.
CRIMPFOX MT 2,5	1204038	1
Accessories		
CRIMPFOX MT 2,5 DIE	1208050	1

CRIMPFOX universal pliers for accommodating various crimp inserts



- 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 applications

Notes:

For more crimping dies for ferrules, cable lugs, slip-on sleeves, turned contacts, coaxial, RJ45, and RJ11 connectors, visit www.phoenixcontact.net/catalog



Basic pliers



Ordering data

Description	Color
Basic pliers , for accommodating dies for various contact types, pressure lock can be unlocked, lateral entry	black
Crimping pliers set , comprising CRIMPFOX-M and dies 1212074, 1212079, 1212080, 1212081	

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-M	1212072	1

Accessories

Die , for MC3 solar connectors, lateral entry, 2.5 - 6 mm ²
For MC4 solar connectors, lateral entry, 2.5 - 6 mm ²
For SOLARLOK solar connectors, lateral entry, 2.5 - 6 mm ²
Die , for ferrules, 0.25 - 10 mm ²
For 16 - 25 mm ²
For 35 - 50 mm ²
Die , for insulated cable lugs, 0.5 - 1.5 mm ² and 1.5 - 2.5 mm ²
For insulated cable lugs, 0.1 - 4 mm ² and 4 - 6 mm ²
Die , for uninsulated cable lugs, 0.75 - 2.5 mm ²
For 0.5 - 6 mm ²
For 4 - 10 mm ²
Die , for uninsulated slip-on sleeves, 0.1 - 1 mm ²
For 0.5 - 2.5 mm ²
For 0.5 - 6 mm ²
Die
For turned contacts with pin diameter of 2.5 mm and 4.0 mm (CK 2,5...,CK 4,0), cross section 0.14 - 4 mm ²
For turned contacts with pin diameter of 4 mm (CK 4,0...), cross section 6 - 10 mm ²
Die , for RG 174, RG 179, BNC, TNC coaxial connectors
For RG 58, RG 59, RG 62, RG 71, BNC, TNC
For CATV RG 6,59
Die , for unshielded RJ45 connectors
For unshielded RJ11 connectors
Die , for shrink butt connector, 0.1 - 0.4 mm ² and 4 - 6 mm ²

CRIMPFOX-M SR 6-1/DIE	1212471	1
CRIMPFOX-M SR 6-2/DIE	1212472	1
CRIMPFOX-M SR 6-3/DIE	1212473	1
CRIMPFOX-M 10/DIE	1212080	1
CRIMPFOX-M 25/DIE	1212081	1
CRIMPFOX-M 50/DIE	1212082	1
CRIMPFOX-M RCI 2,5/DIE	1212074	1
CRIMPFOX-M RCI 6/DIE	1212073	1
CRIMPFOX-M RC 2,5/DIE	1212078	1
CRIMPFOX-M RC 6/DIE	1212079	1
CRIMPFOX-M RC 10/DIE	1212077	1
CRIMPFOX-M SC 1/DIE	1212083	1
CRIMPFOX-M SC 2,5/DIE	1212084	1
CRIMPFOX-M SC 6/DIE	1212085	1
CRIMPFOX-M TC 4/DIE	1212075	1
CRIMPFOX-M TC 10/DIE	1212076	1
CRIMPFOX-M CX-1/DIE	1212087	1
CRIMPFOX-M CX-2/DIE	1212088	1
CRIMPFOX-M CX-3/DIE	1212089	1
CRIMPFOX-M RJ45/DIE	1212090	1
CRIMPFOX-M RJ11/DIE	1212091	1
CRIMPFOX-M HS-1/DIE	1212282	1



Crimping pliers set



Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPFOX-M SET	1212093	1

Accessories

CRIMPFOX-M SR 6-1/DIE	1212471	1
CRIMPFOX-M SR 6-2/DIE	1212472	1
CRIMPFOX-M SR 6-3/DIE	1212473	1
CRIMPFOX-M 10/DIE	1212080	1
CRIMPFOX-M 25/DIE	1212081	1
CRIMPFOX-M 50/DIE	1212082	1
CRIMPFOX-M RCI 2,5/DIE	1212074	1
CRIMPFOX-M RCI 6/DIE	1212073	1
CRIMPFOX-M RC 2,5/DIE	1212078	1
CRIMPFOX-M RC 6/DIE	1212079	1
CRIMPFOX-M RC 10/DIE	1212077	1
CRIMPFOX-M SC 1/DIE	1212083	1
CRIMPFOX-M SC 2,5/DIE	1212084	1
CRIMPFOX-M SC 6/DIE	1212085	1
CRIMPFOX-M TC 4/DIE	1212075	1
CRIMPFOX-M TC 10/DIE	1212076	1
CRIMPFOX-M CX-1/DIE	1212087	1
CRIMPFOX-M CX-2/DIE	1212088	1
CRIMPFOX-M CX-3/DIE	1212089	1
CRIMPFOX-M RJ45/DIE	1212090	1
CRIMPFOX-M RJ11/DIE	1212091	1
CRIMPFOX-M HS-1/DIE	1212282	1

Hand tools

SCREWFOX screwdriver and actuation tool for ST and QTC terminal blocks

- In addition to their standard application, these screwdrivers are also ideal for actuating modular terminal blocks from the ST ... and QTC ... series



Flat-bladed screwdriver, uninsulated



Actuation tool for Push-In Technology, ST and QTC terminal blocks

Description
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks Blade: 0.4 x 2.5 x 75 mm, length: 156 mm
Blade: 0.6 x 3.5 x 100 mm, length: 181 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
Screwdriver/actuation tool , for slotted-head screws/spring-cage terminal blocks, insulated Blade: 0.6 x 3.5 x 100 mm, length: 181 mm
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

Ordering data		
Type	Order No.	Pcs. / Pkt.
SZF 0-0,4X2,5	1204504	10
SZF 1-0,6X3,5	1204517	10
SZF 2-0,8X4,0	1204520	10
SZF 3-1,0X5,5	1206612	10
SZS 0,6X3,5	1205053	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ST-BW	1207608	10

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
- Because the insulation runs into the shaft, there is no protruding edge

Description
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
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm



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

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

N



Flat-bladed screwdriver, uninsulated

N



Description	Ordering data			Ordering data		
	Type	Order No.	Pcs. / Pkt.	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	10			
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				SF-SL 0,4X2,0-60	1212546	10
Blade: 0.4 x 2.5 x 60 mm, length: 145 mm				SF-SL 0,4X2,5-75	1212547	10
Blade: 0.4 x 2.5 x 75 mm, length: 161 mm				SF-SL 0,5X3,0-80	1212548	10
Blade: 0.6 x 3.5 x 100 mm, length: 181 mm				SF-SL 0,6X3,5-100	1212549	10
Blade: 0.6 x 3.5 x 200 mm, length: 281 mm				SF-SL 0,6X3,5-200	1212550	10
Blade: 0.8 x 4.0 x 100 mm, length: 198 mm				SF-SL 0,8X4,0-100	1212551	10
Blade: 1.0 x 5.5 x 150 mm, length: 248 mm				SF-SL 1,0X5,5-150	1212552	10
Blade: 1.2 x 6.5 x 150 mm, length: 255 mm				SF-SL 1,2X6,5-150	1212553	10
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				SF-SLIC 1,2X7,0-125	1212554	10
Blade: 1.6 x 10 x 175 mm, length: 287 mm				SF-SLIC 1,6X10-175	1212555	10

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



VDE Phillips screwdriver with Pozidriv® drive



Ordering data

Description	Type	Order No.	Pcs. / Pkt.
Screwdriver, 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	SZK PZ0 VDE SZK PZ1 VDE SZK PZ2 VDE SZK PZ3 VDE	1206447 1206450 1206463 1212599	10 10 10 10
Screwdriver, 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	SZK PH0 VDE SZK PH1 VDE SZK PH2 VDE SZK PH3 VDE	1205147 1205150 1205163 1212536	10 10 10 10
Screwdriver, 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			
Screwdriver, 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			
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			
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			



N

Phillips screwdriver with Pozidriv® drive



N

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

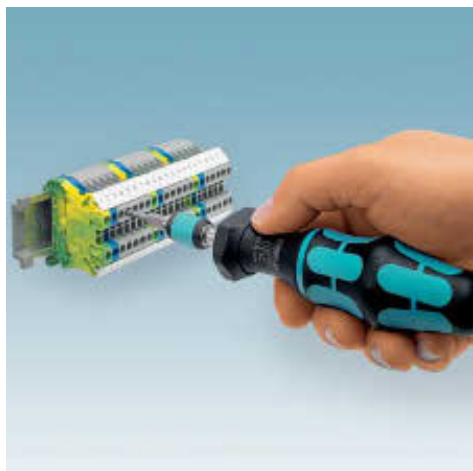
Ordering data

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



Torque screw driver, 0.3 - 1.2 Nm, adjustable



Description	Color
Torque screwdrivers , adjustable from 0.3 - 1.2 Nm	
Adjustable from 0.3 - 1.2 Nm	black
Adjustable from 1.2 - 3 Nm	black
Adjustable from 3 - 6 Nm	black

Cordless 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

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
- Torque accuracy of ± 5 percent
- Adjustable from 0.3 - 4.4 Nm
- With optional snap-on protective cap to prevent unintentional torque adjustment



21 different torque stages

Description
Cordless screwdriver , 3.6 V, incl. rechargeable battery, 1.5 Ah
Cordless screwdriver set , incl. two rechargeable batteries and charger, 230 V
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
Replacement charger , for SF-ASD 21 cordless screwdriver, 230 V

Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-ASD 21	1212532	1
SF-ASD 21 SET 230V	1212530	1

Accessories		
Type	Order No.	Pcs. / Pkt.
SF-UBH	1212590	10
SF-ASD 21/CHARGER 230V	1212535	1

Hand tools

SCREWFOX tool inserts for cordless screwdriver and bit handle

– Tools for SF-ASD 21 cordless screwdriver, various designs

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



Screw bit, slotted



Screw bit, PH and PZ crosshead



Description	Color	Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Screw bit, slotted, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173							
Size: 0.5 x 3.0 x 50 mm	silver	SF-BIT-SL 0,5X3,0-50	1212566	5			
Size: 0.5 x 3.0 x 70 mm	silver	SF-BIT-SL 0,5X3,0-70	1212567	5			
Size: 0.6 x 3.5 x 50 mm	silver	SF-BIT-SL 0,6X3,5-50	1212568	5			
Size: 0.6 x 3.5 x 70 mm	silver	SF-BIT-SL 0,6X3,5-70	1212569	5			
Size: 0.8 x 4.0 x 50 mm	silver	SF-BIT-SL 0,8X4,0-50	1212571	5			
Size: 0.8 x 4.0 x 70 mm	silver	SF-BIT-SL 0,8X4,0-70	1212572	5			
Size: 1.0 x 5.5 x 50 mm	silver	SF-BIT-SL 1,0X5,5-50	1212574	5			
Size: 1.0 x 5.5 x 70 mm	silver	SF-BIT-SL 1,0X5,5-70	1212575	5			
Size: 1.2 x 6.5 x 70 mm	silver	SF-BIT-SL 1,2X6,5-70	1212577	5			
Screw bit, PH crosshead, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173							
Size: PH 1 x 50 mm	silver				SF-BIT-PH 1-50	1212579	5
Size: PH 2 x 50 mm	silver				SF-BIT-PH 2-50	1212580	5
Size: PH 3 x 50 mm	silver				SF-BIT-PH 3-50	1212581	5
Size: PH 1 x 70 mm	silver				SF-BIT-PH 1-70	1212582	5
Size: PH 2 x 70 mm	silver				SF-BIT-PH 2-70	1212583	5
Size: PH 3 x 70 mm	silver				SF-BIT-PH 3-70	1212584	5
Screw bit, PZ crosshead, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173							
Size: PZ 1 x 50 mm	silver				SF-BIT-PZ 1-50	1212591	5
Size: PZ 2 x 50 mm	silver				SF-BIT-PZ 2-50	1212592	5
Size: PZ 3 x 50 mm	silver				SF-BIT-PZ 3-50	1212593	5
Size: PZ 1 x 70 mm	silver				SF-BIT-PZ 1-70	1212594	5
Size: PZ 2 x 70 mm	silver				SF-BIT-PZ 2-70	1212595	5
Size: PZ 3 x 70 mm	silver				SF-BIT-PZ 3-70	1212596	5
Screw bit, PZ/slotted plus/minus, E6.3-1/4" drive, hardened, suitable for holder according to DIN 3126-F 6.3/ISO 1173							
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, 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	silver						
Size: TX 10 x 50 mm	silver						
Size: TX 15 x 50 mm	silver						
Size: TX 20 x 50 mm	silver						
Size: TX 25 x 50 mm	silver						
Size: TX 30 x 50 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							
Size: 0.6 x 3.5 x 50 mm	silver	SF-BIT-SLS 0,6X3,5-50	1212605	5			
Size: 0.9 x 6.5 x 50 mm	silver	SF-BIT-SLS 0,9X6,5-50	1212606	5			
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, plus/minus

N



Screw bit, Torx®

N



Universal bit holder

N

Ordering data			Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
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-TX 8-50	1212570	5			
			SF-BIT-TX 10-50	1212573	5			
			SF-BIT-TX 15-50	1212576	5			
			SF-BIT-TX 20-50	1212578	5			
			SF-BIT-TX 25-50	1212585	5			
			SF-BIT-TX 30-50	1212586	5			
						SF-UBH	1212590	10

SCREWFOX socket wrenches

SHN ...

- Ergonomically designed two-component handle for fatigue-proof and non-slip use

VDE-ISS ...

- VDE-insulated Allen wrench with double-layer insulation, for twice as much safety

Allen wrench set

- Offset wrench set in convenient holder
- The strict fabrication tolerances and special hardening process ensure reliability and optimum work results
- The ball head on the long end makes it possible to carry out work in hard-to-access areas



**Hexagon insert bit,
wrench size of 5.5 / 8 / 13 mm**

Description
<p>Socket wrench, hexagon</p> <p>Wrench size of 5.5 mm</p> <p>Wrench size of 8 mm</p> <p>Wrench size of 13 mm</p> <p>Allen wrench, fully insulated, safety tool acc. to EN 60900, length: 150 mm, T-handle width: 110 mm, for M5 Allen screws</p> <p>For M5 screws</p> <p>For M6 screws</p> <p>For M8 screws</p> <p>Allen wrench set, 9-part, 1.5 to 10.0 mm, chrome-plated matt finish, with ball head, incl. bracket</p>

Ordering data		
Type	Order No.	Pcs. / Pkt.
SHN 5.5	1209855	1
SHN 8	1209868	1
SHN 13	1209923	1

N



Allen wrench (VDE), wrench size of 5 / 6 / 8 mm



Allen wrench, L-shaped, 1.5 - 10 mm



Ordering data			Ordering data		
Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
VDE-ISS 5	1203343	1			
VDE-ISS 6	1201934	1			
VDE-ISS 8	1201947	1			
			SF-LHEX SET	1212544	1

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



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 preset torque of 0.8 Nm and 4 mm hexagonal drive	black
With preset torque of 2.0 Nm and 4 mm hexagonal drive	black
With preset torque of 2.5 Nm and 4 mm hexagonal drive	black
Torque screwdriver, adjustable from 0.3 - 1.2 Nm	
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

Nut
For mounting sensor/actuator cables with M8 connectors, for 4 mm hexagonal screwdriver
For mounting freely assembled SACC M8 connectors with lengthwise knurls, for 4 mm hexagonal screwdriver
For mounting sensor/actuator cables with M12 connectors and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal screwdriver
For mounting freely assembled SACC M12 connectors, except QUICKON fast connection technology, for 4 mm hexagonal screwdriver
For assembling M12 connectors with hexagonal high-grade steel knurl, with 4 mm hexagonal drive
For assembling 7/8" connectors, with 4 mm hexagonal drive
For 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

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

Accessories

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

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

N



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		
Voltage range		
Ordering data		
Type	Order No.	Pcs. / Pkt.
SF-VT VDE	1212598	10

Technical data		
Voltage range		
Voltage range		
Ordering data		
Type	Order No.	Pcs. / Pkt.
PROFIPOL	1209101	1

TESTFOX voltage and continuity tester



- Acoustic and optical continuity test
- Load connection using a pushbutton
- Vibration alarm for safe voltage detection
- Shock-proof housing that is protected against dust and splash water, IP64
- Surge protection category CAT IV 500 V according to IEC/EN 61243-3



- DC and AC voltage tests in the range from 12 V to 690 V AC/750 V DC, fully functional even without batteries
- Polarity test (+/-) for DC voltage
- Single-pos. test of the phase conductor (phase): "R" symbol in the display field for AC voltage
- Indicator for rotary field direction of a three-phase network as long as the star point is grounded
- Measuring point lighting

General data	
Voltage range	[V DC] 12 ... 750
Voltage range	[V AC] 12 ... 690
Description	
Color	
Voltage tester	black

Technical data		
Voltage range		
Voltage range		
Ordering data		
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
- Enclosed within 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



General data

Scope of display	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 VDE0411

Technical data

Technical data

Scope of display	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 VDE0411

Ordering data

Ordering data

Description	Color
Current pliers/multimeter	black
Current pliers/multimeter	black

Type	Order No.	Pcs. / Pkt.
TESTFOX CC	1212210	1

Type	Order No.	Pcs. / Pkt.
TESTFOX CC-1	1212211	1

TESTFOX digital multimeters



For DC and AC voltages



- You are bound to be impressed by the technology of the digital multimeters, not to mention 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 in-feed side right through to the point of interruption

General data

Scope of display	2000 digits
Accuracy of display	0.5%
Volt sensor	Yes
AC voltage measuring range	0.1 mV - 750 V
DC voltage measuring range	0.1 mV - 1000 V
AC current measuring range	-
DC current measuring range	-
Resistance measuring range	0.1 Ω - 20 MΩ
Continuity test range	Yes (25 Ω)
Frequency measuring range	-
Capacitance measuring range	-
Temperature measuring range	-
Diode test	Yes (1.5 mA)
Degree of protection	IP30
Measuring category	CAT III 600 V / CAT II 1000 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE0411

Technical data

Scope of display	2000 digits
Accuracy of display	0.5%
Volt sensor	Yes
AC voltage measuring range	0.1 mV - 750 V
DC voltage measuring range	0.1 mV - 1000 V
AC current measuring range	-
DC current measuring range	-
Resistance measuring range	0.1 Ω - 20 MΩ
Continuity test range	Yes (25 Ω)
Frequency measuring range	-
Capacitance measuring range	-
Temperature measuring range	-
Diode test	Yes (1.5 mA)
Degree of protection	IP30
Measuring category	CAT III 600 V / CAT II 1000 V
Voltage supply	2 x micro battery 1.5 V, LR03, AAA
Test certificate	IEC/EN 61010-1, DIN VDE0411

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 VDE0411

Ordering data

Type	Order No.	Pcs. / Pkt.
TESTFOX M-1	1212209	1

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
- Rugged and heavy-duty tool bags



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 case , empty	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 case wrap , 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 belt pouch , 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 0,5X6,5 - SZK PH0 - SZK PH1 - SZK PH2 - PROFIPOL - USS 4 - Cutting knife - 5 m tape measure - TOOL CARRIER EMPTY						
Tool bag , 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

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, comprising: cable cutter for copper and aluminum up to 12 mm Ø, stripping tool for stripping multicore signal, control and glass fiber 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 entry, square crimping Ferrules, CSA-certified, 50 pcs. each of: AI 0.5-8 WH, AI 2.5-8 BU Ferrules, CSA-certified, 100 pcs. each of: AI 0.75-8 GY, AI 1-8 RD, AI 1.5-8 BK</p>			
<p>Assortment box, made of metal, equipped with ferrules according to DIN 46228-4: 1990-09, CSA-certified 500 pcs. each of: AI 0.25-6 YE, AI 0.34-6 TQ, AI 0.5-8 WH, AI 0.75-8 GY, AI 1-8 RD, AI 1.5-8 BK 300 pcs. of: AI 2.5-8 BU 200 pcs. of: AI 4-10 GY 100 pcs. of: AI 6-12 YE Plus stripping tool for cables and conductors up to 6 mm² Crimping pliers for ferrules according to DIN 46228, Part 1+4, 0.5 - 6 mm², front entry, trapezoidal crimp</p>			
<p>Assortment box, made of metal, equipped with ferrules according to DIN 46228-4: 1990-09, CSA-certified 300 pcs. of: AI 10-12 RD 200 pcs. of: AI 16-12 BU 100 pcs. of: AI 25-16 YE Plus stripping tool, for stripping wires of 4.5 - 40 mm, Crimping pliers for ferrules according to DIN 46228, Part 1+4, 10 - 25 mm², lateral entry, WM crimp</p>			
<p>Assortment box, metal, no components mounted</p>			



Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL SET ALLROUND 2	1208843	1

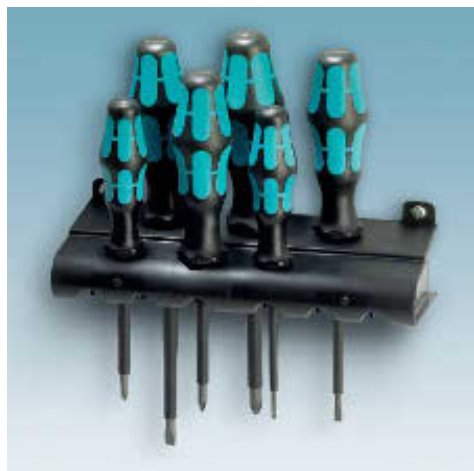
Ordering data

Type	Order No.	Pcs. / Pkt.
TOOL-SET ALLROUND 3	1208953	1

Ordering data

Type	Order No.	Pcs. / Pkt.
CRIMPSET 6	1202072	1
CRIMPSET 25	1202580	1
CRIMPSET 6/25 LEER	1204041	1

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



N

Ordering data

Description	Type	Order No.	Pcs. / Pkt.
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	SF-SL/PH SET	1212541	1
Screwdriver set, slotted/Pozidriv® crosshead, 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	SF-SL/PZ SET	1212542	1
Screwdriver set, slotted/Pozidriv® crosshead, 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	SF-SL/PZ SET VDE	1212540	1
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	SF-SL/PH SET VDE	1212539	1
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	SF-TXH SET	1212538	1
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	SF-TX SET VDE	1212537	1

TOOL fox, bit set

N



- 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/crosshead (PZ and PH) bits, 10-part

Cordless 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	1
ASD BIT SET HN	1209952	1

TOOL fox, screwdriver set

N



- 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/crosshead (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

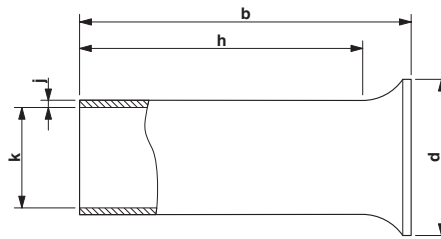
Ordering data

Type	Order No.	Pcs. / Pkt.
SF-M SET	1212543	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)		

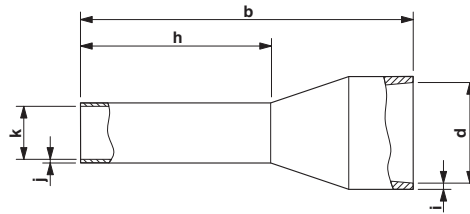
Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, without plastic sleeve, CSA-certified			
	0.25 ¹⁾	24	silver
	0.25 ¹⁾	24	silver
	0.34 ¹⁾	22	silver
	0.5	20	silver
	0.5 ¹⁾	20	silver
	0.5	20	silver
	0.75	18	silver
	0.75 ¹⁾	18	silver
	0.75	18	silver
	1	18	silver
	1 ¹⁾	18	silver
	1	18	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	1.5	16	silver
	2.5	14	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
	35	2	silver
	35 ¹⁾	2	silver

Dimensions [mm]									
a	b	d	h	i	j	k			
-	5.00	1.70	4.30	-	0.15	0.80			
-	7.00	1.70	6.30	-	0.15	0.80			
-	7.00	1.80	6.30	-	0.15	0.90			
-	6.00	2.10	5.30	-	0.15	1.00			
-	8.00	2.10	7.30	-	0.15	1.00			
-	10.00	2.10	9.30	-	0.15	1.00			
-	6.00	2.30	5.30	-	0.15	1.20			
-	8.00	2.30	7.30	-	0.15	1.20			
-	10.00	2.30	9.30	-	0.15	1.20			
-	6.00	2.50	5.30	-	0.15	1.40			
-	8.00	2.50	7.30	-	0.15	1.40			
-	10.00	2.50	9.30	-	0.15	1.40			
-	7.00	2.80	6.00	-	0.15	1.70			
-	10.00	2.80	9.00	-	0.15	1.80			
-	12.00	2.80	11.00	-	0.15	1.70			
-	15.00	2.80	14.00	-	0.15	1.70			
-	18.00	2.80	17.00	-	0.15	1.70			
-	7.00	3.40	6.00	-	0.15	2.20			
-	12.00	3.40	11.00	-	0.15	2.20			
-	18.00	3.40	17.00	-	0.15	2.20			
-	9.00	4.00	8.00	-	0.20	2.80			
-	12.00	4.00	11.00	-	0.20	2.80			
-	18.00	4.00	17.00	-	0.20	2.80			
-	10.00	4.70	9.00	-	0.20	3.50			
-	12.00	4.70	11.00	-	0.20	3.50			
-	12.00	5.80	10.80	-	0.20	4.50			
-	18.00	5.80	16.80	-	0.20	4.50			
-	12.00	7.50	10.50	-	0.20	5.80			
-	12.00	9.50	10.00	-	0.20	7.30			
-	15.00	9.50	13.00	-	0.20	7.30			
-	18.00	9.50	16.00	-	0.20	7.30			
-	20.00	9.50	18.00	-	0.20	7.30			
-	18.00	11.00	16.00	-	0.20	8.30			
-	20.00	11.00	18.00	-	0.20	8.30			

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 35-18	3200399	100
A 35-20	3200409	100

Ferrules with insulating collar with color range acc. to 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	E-CU / tin-plated (galvanic)
Plastic sleeve material	Polypropylene
Long/short-term temperature	105°C / 120°C

Technical data	
Material / coating	E-CU / tin-plated (galvanic)
Plastic sleeve material	Polypropylene
Long/short-term temperature	105°C / 120°C

Technical data	
Material / coating	E-CU / tin-plated (galvanic)
Plastic sleeve material	Polypropylene
Long/short-term temperature	105°C / 120°C

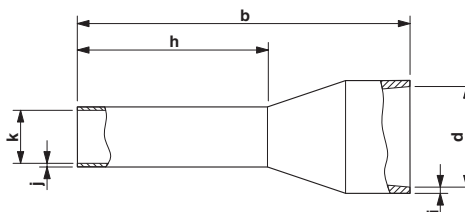
Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, with plastic sleeve, color range acc. to NF C 63-023: 1994-02, CSA-certified			
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5	20	white
	0.5 ¹⁾	20	white
	0.75	18	blue
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1	18	red
	1.5 ¹⁾	16	black
	1.5	16	black
	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

	Dimensions [mm]						
	a	b	d	h	i	j	k
	-	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
	-	18.00	3.40	10.00	0.30	0.15	1.80
	-	18.50	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
	-	19.00	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
	-	35.00	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

Ordering data		
Type	Order No.	Pcs. / Pkt.
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
- The Al 0,25... can also be used to process conductors with a cross section of 0.14 mm²



Conductor cross sections from 0.14 to 120 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

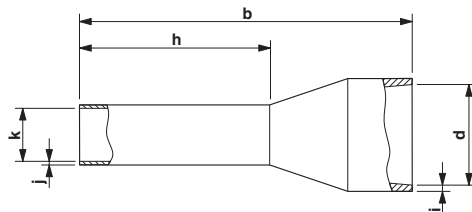
Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, with plastic sleeve, special colors, CSA-certified			
	0.25 ¹⁾	22	blue
	0.25 ¹⁾	22	blue
	0.34 ¹⁾	22	turquoise
	0.34 ¹⁾	22	turquoise
	0.34 ¹⁾	22	turquoise
	0.5	20	orange
	0.5	20	orange
	0.75	18	white
	0.75	18	white
	1	18	yellow
	1	18	yellow
	1.5	16	red
	2.5	14	blue
	2.5	14	blue
	2.5	14	blue
	2.5	14	blue
	4	12	gray
	4	12	gray
	4	12	gray
	6	10	black
	10	8	ivory
	16	6	green
	16	6	green
	25	4	brown
	35	2	beige
	50	1/0	olive
	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	0.25	0.80
-	16.50	2.00	12.00	0.25	0.25	0.80
-	10.50	2.00	6.00	0.25	0.25	0.80
-	12.50	2.00	8.00	0.25	0.25	0.80
-	16.50	2.00	12.00	0.25	0.25	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
-	12.00	2.80	6.00	0.25	0.15	1.30
-	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	3.40	8.00	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
-	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
-	19.00	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
-	22.00	7.50	12.00	0.30	0.20	4.60
-	24.00	8.80	12.00	0.40	0.20	5.80
-	28.00	8.80	18.00	0.40	0.20	5.80
-	30.00	11.00	16.00	0.50	0.20	7.30
-	30.00	12.50	16.00	0.50	0.20	8.30
-	36.00	15.00	20.00	0.60	0.35	10.30
-	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.
Al 0,25- 6 BU	3203040	100
Al 0,25-12 BU	3200632	100
Al 0,34- 6 TQ	3203053	100
Al 0,34- 8 TQ	3203066	100
Al 0,34-12 TQ	3200645	100
Al 0,5 - 6 OG	3201301	100
Al 0,5 - 8 OG	3201123	100
Al 0,75- 6 WH	3201314	100
Al 0,75- 8 WH	3201110	100
Al 1 - 6 YE	3201327	100
Al 1 - 8 YE	3201097	100
Al 1,5 - 8 RD	3201136	100
Al 2,5 - 8 BU	3200522	100
Al 2,5 - 8 BU -1000	3200920	1000
Al 2,5 -12 BU	3200962	100
Al 2,5 -18 BU	3200580	100
Al 4 -10 GY	3200535	100
Al 4 -12 GY	3200959	100
Al 4 -18 GY	3200593	100
Al 6 -12 BK	3201107	100
Al 10 -12 IV	3201068	100
Al 16 -12 GN	3201152	100
Al 16 -18 GN	3201330	100
Al 25 -16 BN	3201084	50
Al 35 -16 BE	3201071	50
Al 50 -20 OL	3201178	50
Al 95 -25 RD	3201853	25
Al120 -27 BU	3201822	25

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



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

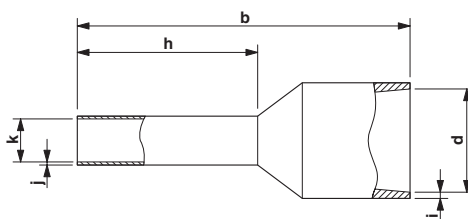
Description	Cross section		Color
	[mm ²]	AWG	
Ferrules, with plastic sleeve, CSA-certified			
	0.5	20	white
	0.5	20	white
	0.75	18	gray
	0.75	18	gray
	1	18	red
	1	18	red
	1.5	16	black
	1.5	16	black

Dimensions [mm]						
a	b	d	h	i	j	k
-	13.50	3.00	8.00	0.25	0.15	1.10
-	15.50	3.00	10.00	0.25	0.15	1.10
-	14.00	3.40	8.00	0.25	0.15	1.30
-	16.00	3.40	10.00	0.25	0.15	1.30
-	14.00	3.40	8.00	0.30	0.15	1.50
-	16.00	3.40	10.00	0.30	0.15	1.50
-	14.00	3.70	8.00	0.30	0.15	1.80
-	16.00	3.70	10.00	0.30	0.15	1.80

Type	Order No.	Pcs. / Pkt.
AI 0,5 - 8 WH-GB	1208966	500
AI 0,5-10 WH-GB	3203150	100
AI 0,75- 8 GY-GB	1208979	500
AI 0,75-10 GY-GB	3203163	100
AI 1 - 8 RD-GB	1208982	500
AI 1 -10 RD-GB-1000	1208869	1000
AI 1,5 - 8 BK-GB-1000	3202892	1000
AI 1,5 -10 BK-GB-1000	1208872	1000

Ferrules for special applications

- These ferrules can be used for short-circuit-proof cables
- Previous methods of achieving correct conductor insulation are much more time consuming



Conductor cross sections from 1.5 to 16 mm²



General data

Material / coating
 Plastic sleeve material
 Long/short-term temperature

Technical data

Technical data

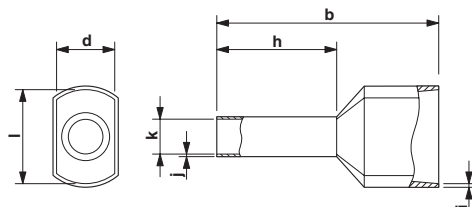
E-CU / tin-plated (galvanic)
 Polypropylene
 105°C / 120°C

Ordering data

Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.
	[mm ²]	AWG		a	b	d	h	i	j	k			
Ferrules, with plastic sleeve, color range acc. to DIN 46228-4: 1990-09, CSA-certified													
	1.5	16	black	-	17.50	7.00	8.00	0.30	0.15	1.80	AI-XL 1,5- 8 BK	3201916	100
	1.5	16	black	-	19.50	7.00	10.00	0.30	0.15	1.80	AI-XL 1,5-10 BK	3201974	100
	2.5	14	blue	-	17.50	7.90	8.00	0.30	0.15	2.30	AI-XL 2,5- 8 BU	3201929	100
	2.5	14	blue	-	21.50	7.90	12.00	0.30	0.15	2.30	AI-XL 2,5-12 BU	3201987	100
	4	12	gray	-	19.50	7.90	10.00	0.30	0.20	2.90	AI-XL 4 -10 GY	3201932	100
	6	10	yellow	-	23.00	8.70	12.00	0.30	0.20	3.60	AI-XL 6 -12 YE	3201945	100
	10	8	red	-	24.00	10.20	12.00	0.30	0.20	4.60	AI-XL 10 -12 RD	3201958	100
	16	6	blue	-	25.50	12.50	12.00	0.40	0.20	6.00	AI-XL 16 -12 BU	3201961	100

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



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	Dimensions [mm]								Type	Order No.	Pcs. / Pkt.
	[mm ²]	AWG		b	d	h	i	j	k	l				
Ferrules, with plastic sleeve, color range acc. to 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	4.70	AI-TWIN 2X 0,5 - 8 WH	3200933	100	
	2 x 0.75	2 x 18	gray gray	15.00	2.80	8.00	0.25	0.15	1.80	5.00	AI-TWIN 2X 0,75- 8 GY	3200807	100	
	2 x 0.75	2 x 18		17.00	2.80	10.00	0.25	0.15	1.80	5.00	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	5.40	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	5.40	AI-TWIN 2X 1 -10 RD	3200988	100	
	2 x 1.5	2 x 16	black	16.00	3.60	8.00	0.30	0.15	2.30	6.60	AI-TWIN 2X 1,5 - 8 BK	3200823	100	
	2 x 1.5	2 x 16	black	20.00	3.60	12.00	0.30	0.15	2.30	6.60	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	7.80	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	7.80	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	8.80	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	10.00	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	13.00	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	16.60	AI-TWIN 2X16 -16 BU	3202847	50	
Ferrules, with plastic sleeve, color range according to NFC 63-023, CSA-certified														
	2 x 0.75	18	blue	15.00	2.80	8.00	0.25	0.15	1.80	5.00	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	7.80	AI-TWIN 2X2,5-10 GY	3240669	100	

Ferrules with plastic sleeve, taped, supplied on large reels

- Ferrules in tape format for automatic processing
- The ferrules are supplied on large reels, 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

Technical data

E-CU / tin-plated (galvanic)
Polypropylene
105°C / 120°C

Description	Cross section		Color
	[mm ²]	AWG	

Taped ferrules, with plastic sleeve, large reels for automatic processing, color range acc. to DIN 46228-4: 1990-09, CSA certified

	0.5	20	white
	0.75	18	gray
	1	18	red
	1.5	16	black
	2.5	14	blue

Dimensions [mm]

a	b	d	h	i	j	k
-	14.00	2.50	8.00	0.25	0.15	1.10
-	14.00	2.80	8.00	0.25	0.15	1.30
-	14.00	3.00	8.00	0.30	0.15	1.50
-	14.00	3.40	8.00	0.30	0.15	1.80
-	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

Assortment boxes containing ferrules



- The practical assortment boxes are designed to keep your workshop tidy
- Color coding and the transparent cover facilitate quick access to the required ferrules
- Using the integrated euro-clip, they can be hung up on perforated board walls, for example, to save space



Description	Color
Assortment box , equipped with ferrules according to 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
Assortment box , equipped with ferrules according to 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
Assortment box , equipped with TWIN ferrules according to 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
Assortment box , equipped with TWIN ferrules according to 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
Assortment box , empty, with five compartments	light gray

Ordering data

Type	Order No.	Pcs. / Pkt.
AI SORTI BOX RD	3202960	1
AI SORTI BOX ANT	3202973	1
AI-TWIN SORTI BOX BU	3202986	1
AI-TWIN SORTI BOX GY	3202999	1
AI SORTI BOX-E LGY	3203008	10

Ferrule set with tool

- Stripping and crimping set with a selection of CSA/CSA-certified ferrules



Description
<p>Assortment box, made of metal, equipped with ferrules according to DIN 46228-4: 1990-09, CSA-certified 500 pcs. 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 pcs. of: Al 2,5-8 BU 200 pcs. of: Al 4-10 GY 100 pcs. of: Al 6-12 YE Plus stripping tool for cables and conductors up to 6 mm² Crimping pliers for ferrules according to DIN 46228, Part 1+4, 0.5 - 6 mm², front entry, trapezoidal crimp</p>
<p>Assortment box, made of metal, equipped with ferrules according to DIN 46228-4: 1990-09, CSA-certified 300 pcs. of: Al 10-12 RD 200 pcs. of: Al 16-12 BU 100 pcs. of: Al 25-16 YE Plus stripping tool, for stripping wires of 4.5 - 40 mm, Crimping pliers for ferrules according to DIN 46228, Part 1+4, 10 - 25 mm², lateral entry, 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

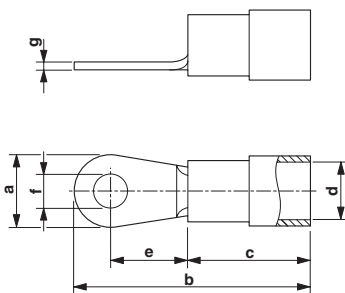


Conductor cross sections from 0.5 to 240 mm²

General data				Technical data							Technical data		
Material / coating											Copper / 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			
Ring cable lug, uninsulated, acc. to 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

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

General data	
Material / coating	
Temperature range	[°C]

Technical data							

Technical data		
Copper / Tin-plated		
-20 ... 105		

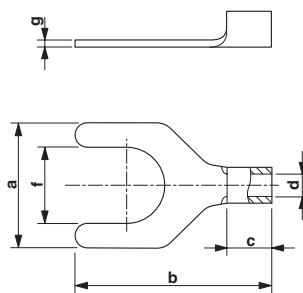
Description	Cross section		Color
	[mm ²]	AWG	
Ring cable lug, insulated acc. to UL			
	0.5 - 1.5	20 - 16	red
	0.5 - 1.5	20 - 16	red
	0.5 - 1.5	20 - 16	red
	0.5 - 1.5	20 - 16	red
	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	1.5 - 2.5	16 - 14	blue
	1.5 - 2.5	16 - 14	blue
	1.5 - 2.5	16 - 14	blue
	1.5 - 2.5	16 - 14	blue
	1.5 - 2.5	16 - 14	blue
	4 - 6	16 - 14	yellow
	4 - 6	12 - 10	yellow
	4 - 6	12 - 10	yellow
	4 - 6	12 - 10	yellow
	4 - 6	12 - 10	yellow
	- 10	- 8	red
	- 10	- 8	red
	- 10	- 8	red
	- 10	- 8	red

Dimensions [mm]							
a	b	c	d	e	f	g	
5.50	17.50	10.50	4.10	4.30	3.20	0.75	
5.50	17.50	10.50	4.10	4.30	3.70	0.75	
8.00	21.70	10.50	4.10	7.30	4.30	0.75	
8.00	21.70	10.50	4.10	7.30	5.30	0.75	
11.60	27.60	10.50	4.10	11.20	6.50	0.75	
6.60	20.60	11.00	4.50	7.80	3.20	0.80	
6.60	20.60	11.00	4.50	6.30	3.70	0.80	
8.50	23.00	11.00	4.50	7.80	4.30	0.80	
9.50	23.00	11.00	4.50	7.30	5.30	0.80	
12.00	28.10	11.00	4.50	11.00	6.50	0.80	
12.00	28.10	11.00	4.50	11.00	8.50	0.80	
9.50	26.70	14.00	6.60	8.00	4.30	1.00	
9.50	26.70	14.00	6.60	8.00	5.30	1.00	
12.00	32.70	14.00	6.60	12.70	6.50	1.00	
15.00	34.90	14.00	6.60	13.40	8.50	1.00	
15.00	34.90	14.00	6.60	13.40	10.50	1.00	
10.00	31.30	16.00	7.50	10.90	5.30	1.10	
11.00	31.30	16.00	7.50	19.30	6.50	1.10	
14.00	37.30	16.00	7.50	13.80	8.40	1.10	
18.00	37.30	16.00	7.50	13.80	10.50	1.10	

Ordering data		
Type	Order No.	Pcs. / Pkt.
C-RCI 1,5/M3	3240016	100
C-RCI 1,5/M3,5	3240017	100
C-RCI 1,5/M4	3240018	100
C-RCI 1,5/M5	3240019	100
C-RCI 1,5/M6	3240020	100
C-RCI 2,5/M3	3240021	100
C-RCI 2,5/M3,5	3240022	100
C-RCI 2,5/M4	3240023	100
C-RCI 2,5/M5	3240024	100
C-RCI 2,5/M6	3240025	50
C-RCI 2,5/M8	3240026	50
C-RCI 6/M4	3240027	50
C-RCI 6/M5	3240028	50
C-RCI 6/M6	3240029	25
C-RCI 6/M8	3240030	25
C-RCI 6/M10	3240031	25
C-RCI 10/M5	3240219	50
C-RCI 10/M6	3240220	50
C-RCI 10/M8	3240221	50
C-RCI 10/M10	3240222	50

Fork-type cable lugs, insulated and un-insulated

- The ring 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 extraction forces.
- The insulated versions are halogen-free and feature "EASY ENTRY" technology



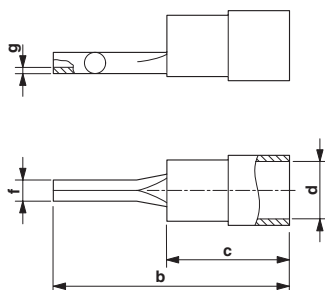
Conductor cross sections from 0.5 to 6 mm²

General data				Technical data							Technical data		
Material / coating											Copper / 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			
Fork-type cable lug, uninsulated, acc. to 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
	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
	4 - 6	12 - 10	silver	8.20	19.50	6.50	3.60	-	4.30	1.00	C-FC 6/M4	3240148	50
	4 - 6	12 - 10	silver	9.00	19.50	6.50	3.60	-	5.30	1.00	C-FC 6/M5	3240149	50
	4 - 6	12 - 10	silver	12.00	23.10	6.50	3.60	-	6.40	1.00	C-FC 6/M6	3240150	50
	4 - 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 lug, insulated acc. 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
	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

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]

Technical data							

Technical data		
Copper / Tin-plated		
-20 ... 105		

Description	Cross section		Color
	[mm ²]	AWG	
Pin cable lug, insulated acc. to UL	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue
	4 - 6	12 - 10	yellow

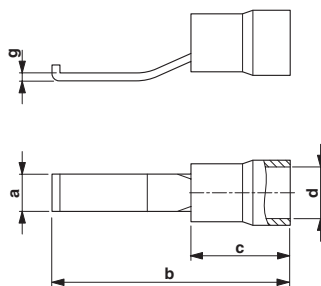
Dimensions [mm]							
a	b	c	d	e	f	g	
-	22.50	10.50	4.10	-	2.00	0.75	
-	23.00	11.00	4.50	-	2.00	0.80	
-	27.50	14.00	6.60	-	2.70	0.80	

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

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

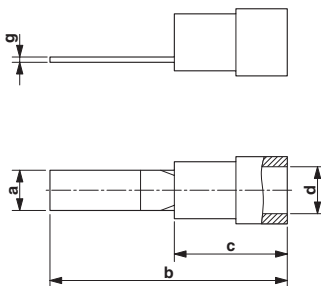
Description	Cross section		Color	Dimensions [mm]						
	[mm ²]	AWG		a	b	c	d	e	f	g
Flat pin cable lug, insulated	0 - 1.5	20 - 16	red	2.80	28.00	10.50	4.00	-	-	0.80
	0.5 - 1.5	20 - 16	red	4.60	28.00	10.50	4.00	-	-	0.80
	1.5 - 2.5	16 - 14	blue	2.80	28.50	11.00	4.50	-	-	0.80
	1.5 - 2.5	16 - 14	blue	4.60	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

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	100

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 RCl... 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
24 x 2.8 mm	4 - 6	12 - 10	yellow	4.50	32.00	14.00	6.60	-	-	1.00
32 x 4.5 mm	4 - 6	12 - 10	yellow	2.80	24.00	14.00	6.60	-	-	1.00

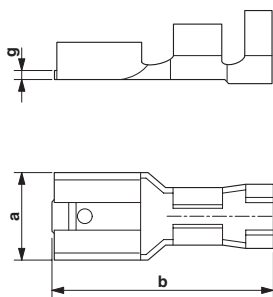
Ordering data

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	100

Hand tools

Slip-on sleeves and flat connectors, uninsulated

- The uninsulated slip-on sleeves and flat connectors are made from electrolytically tin-plated brass
- They round out the product range in terms of connectors



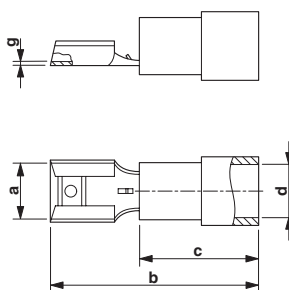
Conductor cross sections from 0.5 to 6 mm²

General data				Technical data							Technical data				
Material / coating											Brass / Tin-plated				
Temperature range				[°C]							- ... 110				
General data				Technical data							Ordering data				
Description	Cross section		Color	Dimensions [mm]							Type	Order No.	Pcs. / Pkt.		
	[mm ²]	AWG		a	b	c	d	e	f	g					
Slip-on sleeve, uninsulated acc. to 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, uninsulated acc. to DIN 48248															
	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 slip-on sleeves			transparent										PT/FS 2,8	1406700	500
For 4.8 slip-on sleeves			transparent										PT/FS 4,8	1670497	25
For 6.3 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

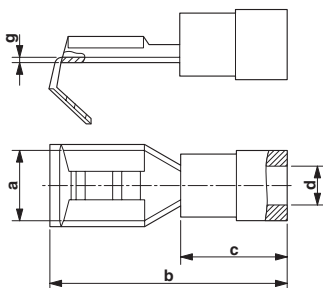
General data				Technical data							Technical data		
Material / coating											Brass / Tin-plated		
Temperature range				[°C]							-20 ... 105		
Description	Cross section		Color	Dimensions [mm]							Ordering data		
	[mm ²]	AWG		a	b	c	d	e	f	g	Type	Order No.	Pcs. / Pkt.
Slip-on sleeve, insulated acc. to UL													
	0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	C-SCFI 1,5/2,8X0,5	3240048	100
	0.5 - 1.5	20 - 16	red	2.80	18.50	10.50	4.10	-	-	0.25	C-SCFI 1,5/2,8X0,8	3240049	100
	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/4,8X0,5	3240050	100
	0.5 - 1.5	20 - 16	red	4.80	19.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/4,8X0,8	3240051	100
	0.5 - 1.5	20 - 16	red	6.30	21.50	10.50	4.10	-	-	0.40	C-SCFI 1,5/6,3X0,8	3240052	100
	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/4,8X0,5	3240053	50
	1.5 - 2.5	16 - 14	blue	4.80	20.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/4,8X0,8	3240054	50
	1.5 - 2.5	16 - 14	blue	6.30	22.00	11.00	5.00	-	-	0.40	C-SCFI 2,5/6,3X0,8	3240055	50
	4 - 6	12 - 10	yellow	6.30	25.00	14.00	6.60	-	-	0.40	C-SCFI 6/6,3X0,8	3240056	50
Flat connector, insulated acc. to UL													
	0.5 - 1.5	20 - 16	red	6.30	22.00	10.50	4.10	-	-	0.80	C-SCMI 1,5/6,3X0,8	3240058	100
	1.5 - 2.5	16 - 14	blue	6.30	22.50	11.00	4.50	-	-	0.80	C-SCMI 2,5/6,3X0,8	3240059	50
	4 - 6	12 - 10	yellow	6.30	24.50	14.00	6.60	-	-	0.80	C-SCMI 6/6,3X0,8	3240060	50

TOOL fox

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]

Technical data

Brass / electrogalvanized
-20 ... 105

Description	Cross section		Color
	[mm ²]	AWG	
Slip-on distributor, insulated, for 6.3 x 0.8 mm connectors and sleeves	0.5 - 1.5	20 - 16	red
	1.5 - 2.5	16 - 14	blue

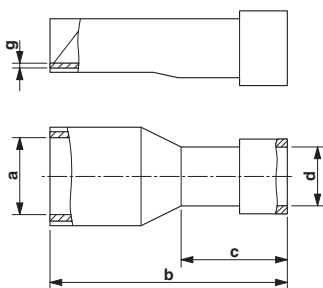
Dimensions [mm]							
a	b	c	d	e	f	g	
6.30	22.50	10.50	41.00	-	-	0.40	
6.30	23.00	11.00	11.00	-	-	0.40	

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]

Technical data

Brass / electrogalvanized
-20 ... 105

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

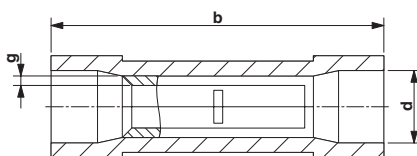
Dimensions [mm]							
a	b	c	d	e	f	g	
2.80	19.00	10.50	4.30	-	-	0.25	
2.80	19.00	10.50	4.30	-	-	0.25	
4.80	19.50	10.50	4.30	-	-	0.40	
4.80	19.50	10.50	4.30	-	-	0.40	
6.30	21.50	10.50	4.30	-	-	0.40	
4.80	20.00	11.00	5.00	-	-	0.40	
4.80	20.00	11.00	5.00	-	-	0.40	
6.30	22.00	11.00	5.00	-	-	0.40	
6.30	26.00	14.00	6.60	-	-	0.40	

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							Technical data				
Material / coating										CU / electrogalvanized				
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.	
Butt connector, insulated	0.5 - 1.5	20 - 16	red	-	25.00	-	4.00	-	-	-	0.75	C-JCI 1,5	3240061	50
	1.5 - 2.5	16 - 14	blue	-	25.30	-	4.50	-	-	-	0.80	C-JCI 2,5	3240062	50
	4 - 6	12 - 10	yellow	-	27.50	-	6.00	-	-	-	1.00	C-JCI 6	3240063	25



TOOL fox – Automatic devices

Phoenix Contact has a comprehensive range of innovative automatic tools to automate the various works steps involved in processing conductors and cables and increase speed and flexibility.

A combination of functionality, quality, and short modification times guarantees high levels of flexibility while ensuring excellent results every time. Cutting machines, automatic cutting devices, and crimping machines are available.

Product range overview

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Portable stripping and crimping machine for taped products	334
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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.



ZAP crimping pliers are pneumatic pliers for ferrules with a cross section range of 0.25 to 10 mm². The crimping process is activated by a foot valve. Two integrated recesses allow easy access to the ferrules.



The CF 500 is characterized by its high pressing force and compact design. Thanks to the adjustable pressing force and interchangeable dies, it is suitable for insulated cable lugs, tube lugs, and crimping wire lugs, as well as slip-on sleeves and ferrules with a cross section of up to 50 mm².



The CF 1000 stripping and crimping machine processes loose ferrules (bulk goods) with insulating collars in accordance with DIN 46228-4. This automatic device allows conductors to be stripped and fitted with ferrules in one operation.



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.

Automatic devices

Automatic cutting device for conductors and cables



- The automatic cutting device can be used to cut conductors, cables, and similar profiles
- The desired length and number of cuts can be specified in a user-friendly way via the display
- To insert the conductors all you have to do is swing open the front enclosing guard
- The drive and guide rolls automatically adjust to each inserted diameter
- No adjustments are required thanks to the automatic "zero cut", which is performed when the start button is pressed



Conductor cross sections from 0.25 to 10 mm²



Dimensions		[mm]
General data		
Weight	[kg]	11
Power consumption	[VA]	80
Cutting efficiency		
Fine strand	[mm ²]	0.25 - 10
Single strand	[mm ²]	0.25 - 2.5
Max. throughput	[mm]	8
Cross section setting		Automatic
Maximum number of cuts	[Pcs.]	999
Length	[mm]	2 ... 99999
Feed rate	[m/s]	0.5
Unit of measurement		mm/inch
Dialog language		German / English / French / Italian

Technical data		
Width	Length	Height
195	295	230

Description
Automatic cutting device, 230 V/50 Hz version, for conductors and cables with a diameter of up to 8 mm, solid (up to 2.5 mm²) and stranded (up to 10 mm²)
Automatic cutting device, 120 V/60 Hz version, for conductors and cables with a diameter of up to 8 mm, solid (up to 2.5 mm²) and stranded (up to 10 mm²)

Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX 10	1206829	1
CUTFOX 10 120V	1206832	1

Cable unwinder, for CUTFOX 10, for accommodating and gently unwinding cable rings and coils, complete
Turntable, for CUTFOX 10 cable unwinder, for accommodating cable rings and cable coils
Retaining bolts, for CUTFOX 10 turntable, 4 pcs.
Replacement drive belt, for CUTFOX 10, 2 pcs.
Replacement blade set, for CUTFOX 10

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 CUTTING KNIFE SET	1207284	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
- Pressure points on sensitive insulation are avoided
- The stripping dimensions are set individually via rotary buttons and shown visually on the large display

Conductor cross sections from 0.08 to 6 mm²

Dimensions	
	[mm]
General data	
Weight	[kg]
Power consumption	[VA]
Working cycle	[s]
Compression	Trapezoidal
Stripping power	
Fine strand	[mm ²]
Stripping length	[mm]
Partial stripping length	[mm]
Max. throughput	[mm]

Description	
Stripping machine , 230 V version, for conductors and cables, solid and stranded 0.08 - 6 mm ² (max. Ø 6 mm), with integrated graphic display	
Stripping machine , 120 V version, for conductors and cables, solid and stranded 0.08 - 6 mm ² (max. Ø 6 mm), with integrated graphic display	

Replacement stripping blade , for WF 1000

Technical data			
Width	Length	Height	
141	363	221	
Weight			
9.5			
Power consumption			
160			
Working cycle			
0.3			
Compression			
Trapezoidal			
Stripping power			
0.08 - 6			
Stripping length			
3 - 20			
Partial stripping length			
2 - 20			
Max. throughput			
6			

Ordering data			
Type	Order No.	Pcs. / Pkt.	
WF 1000	1212149	1	
WF 1000 120V	1212258	1	

Accessories			
Type	Order No.	Pcs. / Pkt.	
WF 1000/SB	1212279	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 ZAP 25 has a Duo-Press die, allowing both front and lateral conductor entry



Conductor cross sections from 0.25 to 2.5 mm²



Conductor cross sections from 4 to 10 mm²

Area of application

Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 14
Pressure range	[bar]	4 - 6
Air consumption per compression	[l]	0.2
Compression		Trapezoidal

Technical data

Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 14
Pressure range	[bar]	4 - 6
Air consumption per compression	[l]	0.2
Compression		Trapezoidal

Technical data

Conductor	[mm ²] / AWG	4 - 10 / 12 - 8
Pressure range	[bar]	4 - 6
Air consumption per compression	[l]	0.2
Compression		Trapezoidal

Description

Pneumatic crimping pliers, for ferrules acc. to DIN 46228

Ordering data

Type	Order No.	Pcs. / Pkt.
ZAP 25	1203110	1

Ordering data

Type	Order No.	Pcs. / Pkt.
ZAP 100	1203259	1

Pneumatic crimping pliers in the form of a tabletop device

- These crimping pliers have been specially developed for pre-assembling conductors
- Two integrated recesses allow quick access to the ferrules
- The crimping process is activated by a foot valve



Conductor cross sections from 0.25 to 2.5 mm²



Conductor cross sections from 4 to 10 mm²

Area of application

Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 14
Pressure range	[bar]	4 - 6
Air consumption per compression	[l]	0.2
Compression		Trapezoidal

Technical data

Conductor	[mm ²] / AWG	0.25 - 2.5 / 24 - 14
Pressure range	[bar]	4 - 6
Air consumption per compression	[l]	0.2
Compression		Trapezoidal

Technical data

Conductor	[mm ²] / AWG	4 - 10 / 12 - 8
Pressure range	[bar]	4 - 6
Air consumption per compression	[l]	0.2
Compression		Trapezoidal

Description

Pneumatic crimping pliers, for ferrules acc. to DIN 46228

Ordering data

Type	Order No.	Pcs. / Pkt.
ZAP 25 T	1203123	1

Ordering data

Type	Order No.	Pcs. / Pkt.
ZAP 100 T	1203262	1

Portable crimping machine for ferrules, cable lugs, and connectors



The CF 500 is characterized by a high pressing force in a compact design.

Easy to replace dies for processing ferrules, cable lugs, and contacts:

- Ferrules up to 50 mm²
- TWIN ferrules up to 2 x 10 mm²
- Insulated cable lugs up to 6 mm²
- Uninsulated cable lugs up to 6 mm²
- Tube lugs up to 10 mm²
- Slip-on sleeves and flat connectors up to 6 mm²
- Turned contacts up to 10 mm²

Easy assembly of FBS ... plug-in bridges from the CLIPLINE complete system:

- **FBS ...-4, FBS ...-5, FBS ...-6, FBS ...-8**



Notes:
See data sheet for further technical data.
For more information about dies, visit: www.phoenixcontact.net/catalog



Connectors up to 50 mm²



Dimensions	
	[mm]
General data	
Weight	[kg]
Power supply	[V]
Power consumption	[VA]
Pressure	[kN]
Working cycle	[s]

Technical data		
Width	Length	Height
140	220	320

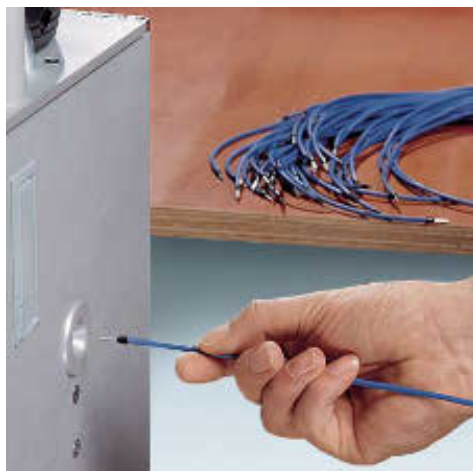
Description
Crimping machine , 230 V version, with quantity counter and foot switch
230 V version
Crimping machine , 120 V version, with quantity counter and foot switch
120 V version

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 500-230V	1208348	1
CF 500-120V	1208351	1

CF 500 die , for ferrules (A... and Al...) 0.25 - 6 mm ²
For ferrules (A... and Al...) 10, 16, and 25 mm ²
For ferrules (A... and Al...) 35 and 50 mm ²
For TWIN ferrules (Al-TWIN...) 2 x 4, 2 x 6, and 2 x 10 mm ²
For insulated cable lugs (RCI... and FCI...) 0.14 - 1.5 mm ²
For insulated cable lugs (RCI... and FCI...) 0.5 - 6 mm ²
For cable lugs (RC... and FC...) 0.5 - 10 mm ²
For cable lugs (RC... and FC...) 16 mm ²
For slip-on sleeves and flat connectors (SCF... and SCM...) 0.1 - 1.5 mm ²
For slip-on sleeves and flat connectors (SCF... and SCM...) 0.5 - 6 mm ²
For turned contacts with pin diameters of 2.5 and 4.0 mm (CK 2,5..., CK 4,0) 0.14 - 4 mm ²
For turned contacts (CK 4.0) 6 - 10 mm ²
For FBS ... plug-in bridges
CF 500 protective cover , without recess (for all dies without assignment)
For ferrules up to 6 mm ² (Al 6...)
For TWIN ferrules (Al-TWIN...)
For insulated cable lugs (RCI..., TC4)
For tube lugs 0.5 - 10 mm ²
For tube lugs with a cross section of 0.34 - 2.5 mm ² (SC...)
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...) Width: 2.8 mm, length: 5 mm
For slip-on sleeves (SCF...) Width: 4.8 mm
For slip-on sleeves (SCF...) Width: 6.3 mm
For slip-on sleeves (SCM...) 0.5 - 2.5 mm ²

Accessories		
Type	Order No.	Pcs. / Pkt.
CF 500/DIE Al 6	1212238	1
CF 500/DIE Al 25	1212239	1
CF 500/DIE Al 50	1212261	1
CF 500/DIE Al-TWIN 10	1212262	1
CF 500/DIE RCI 1,5	1212263	1
CF 500/DIE RCI 6	1212240	1
CF 500/DIE RC 10	1212244	1
CF 500/DIE RC 16	1212257	1
CF 500/DIE SC 1,5	1212241	1
CF 500/DIE SC 6	1212242	1
CF 500/DIE TC 4	1212237	1
CF 500/DIE TC 10	1212260	1
CF 500/DIE FBS	1212461	1
CF 500/COV	1212250	1
CF 500/COV Al 6	1212254	1
CF 500/COV Al 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

Stripping and crimping machine for bulk goods



- The stripping and crimping machine can be used to process loose ferrules with insulating collars in accordance with DIN 46228-4
 - Up to 1200 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
 - The extraction forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947
- Other key features of the automatic device are as follows:
- Rugged design
 - Quick change of cross section without the need for additional adjustments
 - Quantity counter
 - Suitable for bulk processing



Conductor cross sections from 0.34 to 4 mm²



Dimensions	
	[mm]
General data	
Weight	[kg]
Air consumption per compression	[l]
Working cycle	[s]
Compression	Trapezoidal

Description	
Stripping and crimping machine , 230 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.34 - 4 mm ² , incl. conversion kits 0.5 - 1.5 mm ² (8 mm stripping length)	
Stripping and crimping machine , 120 V version, electro-pneumatic, for loose ferrules with insulating collar, 0.34 - 4 mm ² , incl. conversion kits 0.5 - 1.5 mm ² (8 mm stripping length)	

Expansion set, complete, for CF 1000, for loose ferrules with insulating collar	
0.25/0.34 mm ² , 6 mm stripping length	
0.25/0.34 mm ² , 8 mm stripping length	
2.5 mm ² , 8 mm stripping length	
4 mm ² , 10 mm stripping length	
Replacement blade , V-form, for CF 1000	
Protective cover , for CF 1000	

Technical data		
Width	Length	Height
240	490	390

Ordering data		
Type	Order No.	Pcs. / Pkt.
CF 1000-1,5 230V	1208199	1
CF 1000-1,5 120V	1208209	1

Accessories		
CF 1000-TOOLKIT 0,34/ 6	1208212	1
CF 1000-TOOLKIT 0,34/ 8	1208225	1
CF 1000-TOOLKIT 2,5/ 8	1208241	1
CF 1000-TOOLKIT 4,0/10	1208270	1
CF-EM	1205215	1
CF 1000-COVER	1208306	1

Stripping and crimping machine for bulk goods

- The stripping and crimping machine can be used to process loose ferrules with insulating collars in accordance with DIN 46228-4
- Up to 1200 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
- The extraction forces conform to the requirements of IEC/EN 60999 and IEC/EN 60947

Other key features of the automatic device are as follows:

- Rugged design
- Quick change of cross section without the need for additional adjustments
- Quantity counter
- Suitable for bulk processing



Conductor cross section of 4 / 6 / 10 mm²



Dimensions	
	[mm]
General data	
Weight	[kg]
Air consumption per compression	[l]
Working cycle	[s]
Compression	

Technical data		
Width	Length	Height
240	490	390
29	1.2	1.5
Trapezoidal		

Description
Stripping and crimping machine , 230 V version, electro-pneumatic, for loose ferrules with insulating collar, 4 mm ² , 6 mm ² , and 10 mm ² , without conversion kit
Stripping and crimping machine , 120 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
CF 1000-10 120V	1212457	1

Conversion kit , complete, for CF 1000-10, for loose ferrules with insulating collar, 4 mm ²
4 mm ² , 10 - 12 mm stripping length
6 mm ² , 12 mm stripping length
10 mm ² , 12 mm stripping length
Replacement blade , V-form, for CF 1000
Protective cover , for CF 1000

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-EM	1205215	1
CF 1000-COVER	1208306	1

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 1200 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
- COMBI plug-in connection solutions



Conductor cross sections from 0.25 to 2.5 mm²



Dimensions	
	[mm]
General data	
Weight	[kg]
Area of application	
Conductor	[mm ²] / AWG
Power consumption	[VA]
Working cycle	[s]
Compression	

Description	
Stripping and crimping machine, 230 V version, for taped insulated ferrules 0.25 - 2.5 mm², 8 mm stripping length, incl. conversion kits 0.5 - 2.5 mm²	
Stripping and crimping machine, 120 V version, for taped insulated ferrules 0.25 - 2.5 mm², 8 mm stripping length, incl. conversion kits 0.5 - 2.5 mm²	

Expansion set, complete, for CF 3000, for taped insulated ferrules, 0.25/0.34 mm², 8 mm stripping length	
Replacement 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	
Replacement blade, 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	

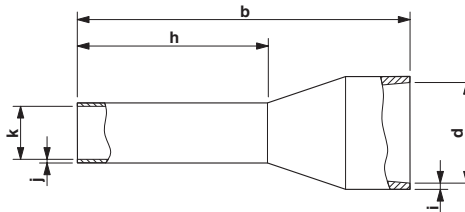
Technical data			
Width	Length	Height	
165	320	300	
General data			
Weight [kg]			
12			
Area of application			
Conductor [mm ²] / AWG			
0.25 - 2.5 / 24 - 14			
Power consumption [VA]			
80			
Working cycle [s]			
1.2			
Compression			
Trapezoidal			

Ordering data			
Type	Order No.	Pcs. / Pkt.	
CF 3000-2,5	1205477	1	
CF 3000-2,5 120V	1205516	1	

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 modular terminal blocks, especially those of the CLIPLINE complete system



Conductor cross sections from 0.25 to 8 mm²



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	

Description	Cross section		Color
	[mm ²]	AWG	
Taped ferrule, with plastic sleeve, color range acc. to DIN 46228-4: 1990-09, CSA-certified			
	0.25	22	yellow
	0.5	20	white
	0.75	18	gray
	1	18	red
	1.5	16	black
	2.5	14	blue
Taped ferrules, with plastic sleeve, color range acc. to NF C 63-023: 1994-02, CSA-certified			
	0.75	18	blue
	2.5	14	gray
Taped ferrules, with plastic sleeve, special colors, CSA-certified			
	0.25	22	blue
	0.34	22	turquoise
	0.5	20	orange
	0.75	18	white
	1	18	yellow
	1.5	16	red

Dimensions [mm]						
a	b	d	h	i	j	k
-	14.00	2.20	8.00	0.25	0.15	0.80
-	14.00	2.50	8.00	0.25	0.15	1.10
-	14.00	2.80	8.00	0.25	0.15	1.30
-	14.00	3.00	8.00	0.30	0.15	1.50
-	14.00	3.40	8.00	0.30	0.15	1.80
-	14.00	4.20	8.00	0.30	0.15	2.30
-	14.00	2.80	8.00	0.25	0.15	1.30
-	14.00	4.20	8.00	0.30	0.15	2.30
-	14.00	2.20	8.00	0.25	0.15	0.80
-	14.00	2.20	8.00	0.25	0.15	0.80
-	14.00	2.50	8.00	0.25	0.15	1.10
-	14.00	2.80	8.00	0.25	0.15	1.30
-	14.00	3.00	8.00	0.30	0.15	1.50
-	14.00	3.40	8.00	0.30	0.15	1.80

Ordering data		
Type	Order No.	Pcs. / Pkt.
AI 0,25-8 YE-B	3240251	1000
AI 0,5 - 8 WH-B	3201369	1000
AI 0,75- 8 GY-B	3201372	1000
AI 1 - 8 RD-B	3201385	1000
AI 1,5 - 8 BK-B	3201398	1000
AI 2,5 - 8 BU-B	3201408	500
AI 0,75- 8 BU-B	3201547	1000
AI 2,5 - 8 GY-B	3201550	500
AI 0,25-8 BU-B	3240250	1000
AI 0,34-8 TQ-B	3240249	1000
AI 0,5 - 8 OG-B	3201563	1000
AI 0,75- 8 WH-B	3201576	1000
AI 1 - 8 YE-B	3201589	1000
AI 1,5 - 8 RD-B	3201592	1000



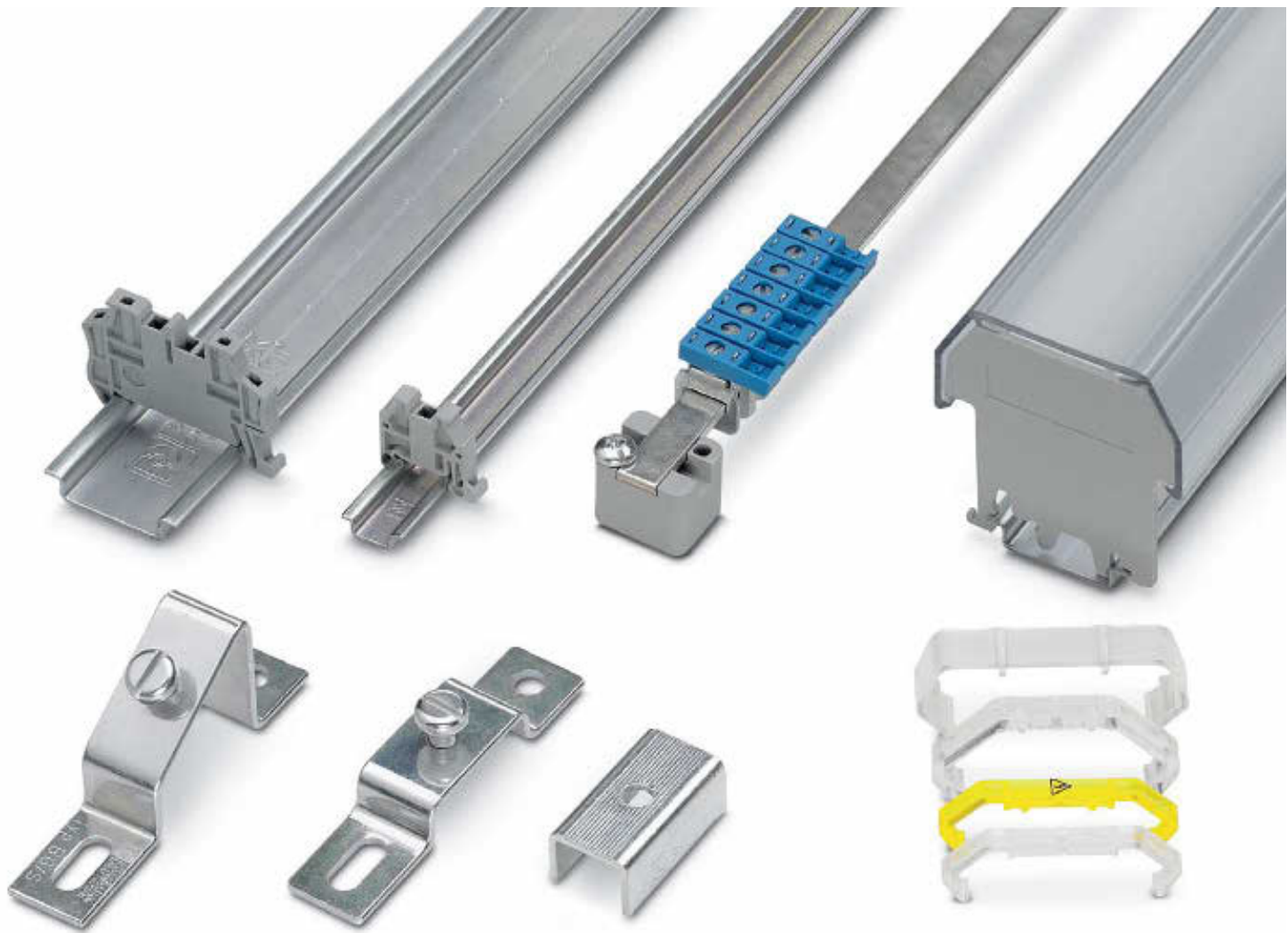
CABINET add-on - Mounting material

The installation of switchgear and control cabinets need not be time-consuming and space-consuming if suitable mounting devices are used and the right tool is selected. Our range of products in this area is extensive.

The CABINET add-on range includes mounting material and mounting devices for all aspects of control cabinet installation. 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.

Product range overview

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You can save time when securing connections and components in switchgear and control gear by using suitable mounting devices. By combining the mounting accessories appropriately, optimum use can be made of the available space inside the control cabinet. DIN rails form the basis of the "insides" of the control cabinet. They are used to grip the rail-mountable components firmly. Phoenix Contact provides a wide range of standardized rails made of various materials. On request, they can be supplied cut to length with pre-drilled holes. The range is rounded off by cable clamps and associated rails.

End brackets are used for a secure lateral hold on the components, especially in the event of jolts and vibrations in the systems. Depending on the application, they must either be fastened using screws or can simply be snapped onto the DIN rails as in the case of the CLIPFIX series. Label carriers can be snapped onto the end brackets for greater clarity and to create a visual distinction between individual terminal strip blocks.

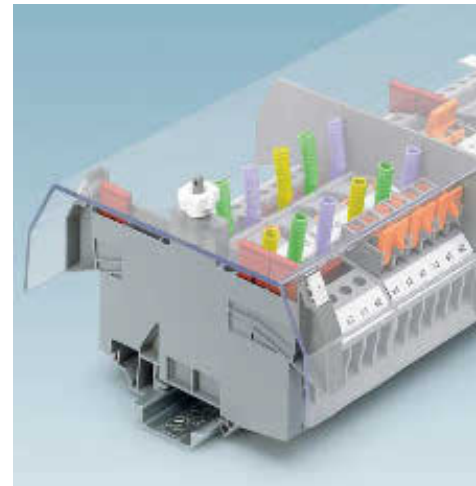
A wide range of cover profiles is available to ensure the necessary level of safety. The wide choice of cable ducts provides users with flexible and straightforward cable installation solutions that simply involve breaking out the lateral segments without the need for tools. The mounting material is rounded off by installation materials that include pick-off terminal blocks, Europe connectors, and junction box connectors



For control cabinet engineering applications, the key features of the NS 15 and NS 35 DIN rails are their high degree of dimensional accuracy and double surface tempering. They are galvanized and feature thick layer passivation, which makes them RoHS compliant.



Used in conjunction with the NS 15 and NS 35 DIN rails, the end brackets ensure that the components remain securely attached to the rails. A comprehensive range of end brackets is available for specific applications.



Cover profiles are used to cover live parts and also provide protection against accidental actuation of terminal points or disconnect terminal blocks.



Phoenix Contact offers various connection, branch, and power terminal blocks for busbars in switchgear and control gear.



The wide range of Europe connectors includes terminal blocks with wire protection as well as versions without. The individual positions can be separated easily by twisting without the need for tools.



The push-in connection method of the junction box connector series means that solid conductors or conductors with ferrules can be inserted into the terminal point with ease. Low insertion forces and high extraction forces ensure a secure connection.

CABINET add-on

Component mounting

NS 15 DIN rails, 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



NS 15 DIN rail, unperforated



NS 15 DIN rail, perforated

Notes:
For dimensional drawings and ordering examples, see page 353.
¹⁾ Please specify the desired length in millimeters when placing your order. See ordering example.
²⁾ Please specify the desired length and borehole when placing your order. See ordering example.

General data	
Material	
Description	Color
DIN rail, unperforated , acc. to EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m	silver
DIN rail, unperforated , acc. to EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length according to customer specifications ¹⁾	silver
DIN rail, unperforated , acc. to EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, cut to length acc. to customer specifications and supplied with fixing holes ²⁾	silver
DIN rail, perforated , acc. to EN 60715 - 15 x 5.5 mm, galvanized and thick layer passivated, supply length: 2 m	silver
DIN rail, perforated , acc. to 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 acc. to EN 60715 - 15 x 5.5 mm, supply length: 2 m, material: aluminum	silver

Technical data		
Steel		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 UNPERF 2000MM	1401695	5
NS 15 UNPERF/...	1208089	1
NS 15 UNPERF/SO/...	1208092	1

Technical data		
Steel		
Ordering data		
Type	Order No.	Pcs. / Pkt.
NS 15 PERF 2000MM	1401682	5
NS 15 PERF/...	1208102	1
NS 15 AL PERF 2000MM	1401763	5

NS 35 DIN rails, flat design

Notes:
For dimensional drawings and ordering examples, see page 353..
1) Please specify the desired length in millimeters when placing your order. See ordering example.
2) Please specify the desired length and borehole when placing your order. See ordering example.



NS 35 DIN rail, 7.5 mm high, unperforated



NS 35 DIN rail, 7.5 mm high, perforated

General data		Technical data			Technical data		
Material		Steel			Steel		
Description		Ordering data			Ordering data		
Color		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
DIN rail, unperforated , acc. to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, supply length: 2 m silver		NS 35/ 7,5 UNPERF 2000MM	0801681	5			
DIN rail, unperforated , acc. to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, cut to length according to customer specifications ¹⁾ silver		NS 35/ 7,5 UNPERF/...	1208115	1			
DIN rail, unperforated , acc. to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, cut to length according to customer specifications and supplied with fixing holes ²⁾ silver		NS 35/ 7,5 UNPERF/SO/...	1208128	1			
DIN rail, unperforated , dimensions acc. to EN 60715 - 35 x 7.5 mm, galvanized, flat design, supply length: 2 m silver		NS 35/ 7,5 ZN UNPERF 2000MM	1206434	5			
DIN rail, unperforated , dimensions acc. to EN 60715 - 35 x 7.5 mm, flat design, supply length: 2 m, material: copper Color: copper		NS 35/ 7,5 CU UNPERF 2000MM	0801762	5			
DIN rail, unperforated , dimensions acc. to EN 60715 - 35 x 7.5 mm, flat design, supply length: 2 m, material: high-grade steel V2A silver		NS 35/ 7,5 V2A UNPERF 2000MM	0801377	5			
DIN rail, unperforated , dimensions acc. to EN 60715 - 35 x 7.5 mm, flat design, supply length: 2 m, material: aluminum silver		NS 35/ 7,5 AL UNPERF 2000MM	0801704	5			
DIN rail, perforated , acc. to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, supply length: 2 m silver					NS 35/ 7,5 PERF 2000MM	0801733	5
DIN rail, perforated , acc. to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, for cabinet width/depth of 0.8 m silver					NS 35/ 7,5 PERF 755MM	1207640	10
Length: 755 mm For cabinet width/depth of 1.0 m, supply length: 955 mm silver					NS 35/ 7,5 PERF 955MM	1207653	10
For cabinet width/depth of 1.2 m, supply length: 1155 mm silver					NS 35/ 7,5 PERF 1155MM	1207666	10
DIN rail, perforated , acc. to EN 60715 - 35 x 7.5 mm, galvanized and thick layer passivated, flat design, cut to length according to customer specifications ¹⁾ silver					NS 35/ 7,5 PERF/...	1208131	1
DIN rail, perforated , dimensions acc. to EN 60715 - 35 x 7.5 mm, galvanized, flat design, supply length: 2 m silver					NS 35/ 7,5 ZN PERF 2000MM	1206421	5

CABINET add-on

Component mounting

NS 35 tall design and NS 32 DIN rails

Notes:
For dimensional drawings and ordering examples, see page 353.
¹⁾ Please specify the desired length in millimeters when placing your order. See ordering example.
²⁾ Please specify the desired length and borehole when placing your order. See ordering example.



NS 35, 15 mm high DIN rail, unperforated



NS 32 DIN rail

General data

Material

Description Color

DIN rail, unperforated, acc. to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m

silver

DIN rail, unperforated, acc. to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications¹⁾

silver

DIN rail, unperforated, acc. to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, cut to length according to customer specifications and supplied with fixing holes²⁾

silver

DIN rail, unperforated, similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m

silver

DIN rail, unperforated, acc. to EN 60715 - 35 x 15 mm, 2.3 mm thick, galvanized and thick layer passivated, tall design, for universal cut, supply length: 2 m

silver

DIN rail, unperforated, similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tall design, supply length: 2 m, **material: copper**

copper

DIN rail, perforated, acc. to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m

silver

DIN rail, perforated, acc. to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, for cabinet width/depth of 0.8 m

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, acc. to EN 60715 - 35 x 15 mm, galvanized and thick layer passivated, tall design, supply length: 2 m, cut to length according to customer specifications¹⁾

silver

DIN rail, perforated, similar to EN 60715 - 35 x 15 mm, 1.5 mm thick, tin-plated, tall design, supply length: 2 m

silver

DIN rail, unperforated, acc. to EN 60715 - G32, supply length: 2 m, galvanized and thick layer passivated

silver

DIN rail, perforated, acc. to EN 60715 - G32, galvanized and thick layer passivated, supply length: 2 m

silver

Technical data

Steel

Ordering data

Type	Order No.	Pcs. / Pkt.
NS 35/15 UNPERF 2000MM	1201714	5
NS 35/15 UNPERF/...	1208144	1
NS 35/15 UNPERF/SO/...	1208157	1
NS 35/15 ZN UNPERF 2000MM	1206586	5
NS 35/15-2,3 UNPERF 2000MM	1201798	5
NS 35/15 CU UNPERF 2000MM	1201895	5
NS 35/15 PERF 2000MM	1201730	5
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
NS 35/15 ZN PERF 2000MM	1206599	5

Technical data

Steel

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 353.



NS 35, 15 mm high DIN rail with slide nut guide

Dimensions		Technical data		
		Width	Length	Height
		35	2000	15
General data		Aluminum		
Material				
Description		Ordering data		
		Type	Order No.	Pcs. / Pkt.
DIN rail, unperforated, similar to EN 60715 - 35 x 15 mm, deep-drawn, tall design, with slide nut guide, supply length: 2 m		NS 35/15 AL UNPERF 2000MM	1201756	5
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		NS 35/15 AL UNPERF/...	1210213	1
Slide nut, for NS 35/15-AL DIN rail, for fixing devices, material: steel		GLM 4	1201769	100
M4	silver	GLM 5	1201772	100
M5	silver	GLM 6	1201785	100
M6	silver			

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 labeling



End bracket for NS 15 DIN rail



End bracket for NS 35 DIN rail

Dimensions	
	[mm]
General data	
Material	PA
Inflammability class according to UL 94	V2
Description	Color
End bracket , for snapping onto NS 15, 5.2 mm wide, can be labeled with ZB 5 and ZBF 5, KLM, parking facilities for bridges and test accessories	gray
End bracket , for snapping onto NS 35, 5.15 mm wide, can be labeled with ZB 5, parking facility for bridges and test plugs	gray
End bracket , for snapping onto NS 35, 9.5 mm wide, can be labeled with ZB 6, ZB 8/27, KLM...	gray

Technical data		
Width	Length	Height
5.2	22	22.6

Ordering data		
Type	Order No.	Pcs. / Pkt.
CLIPFIX 15	3022263	50

Technical data		
Width	Length	Height
5.15	48.5	35

Ordering data		
Type	Order No.	Pcs. / Pkt.
CLIPFIX 35-5	3022276	50
CLIPFIX 35	3022218	50

Screw-on end bracket, for NS 15 DIN rail

- With universal foot for NS 35 and NS 32 DIN rails
- High and low designs
- Large area for labeling



For NS 35 and NS 32 DIN rails



For multi-level terminal blocks on NS 35 and NS 32 DIN rails

Dimensions	
	[mm]
General data	
Material	PA
Inflammability class according to UL 94	V2

Technical data		
Width	Length	Height
9.5	50.5	35.3

Ordering data		
Type	Order No.	Pcs. / Pkt.
E/UK	1201442	50

Technical data		
Width	Length	Height
10	55.5	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
E/UK 1	1201413	50

Screw-on end bracket, for NS 35 and NS 32 DIN rails

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 labeling



For miniature IEC terminal blocks on NS 15 DIN rail



For NS 15 DIN rail

Dimensions	[mm]
General data	
Material	PA
Inflammability class according to UL 94	V2

Technical data		
Width	Length	Height
6.1	22	11.4

Technical data		
Width	Length	Height
6.1	21.2	18

Description	Color
End bracket , for snapping onto NS 15, for slide-on miniature terminal blocks, can be fastened with a screw, can be labeled with KLM 1	gray
End bracket , for snapping onto NS 15, 6.1 mm wide, can be fastened with a screw, can be labeled with KLM 1	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
E/MBK	1401637	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
E/MK 1	1421659	100

Screw-on end bracket, for NS 35 DIN rail

- The E/AL-NS 35 provides optimum support for large terminal blocks and devices
- Large area for labeling



For NS 35 DIN rail



For terminal blocks > 40 mm² on NS 35 DIN rail

Dimensions	[mm]
General data	
Material	PA
Inflammability class according to UL 94	V2

Technical data		
Width	Length	Height
9.5	48.6	32.8

Technical data		
Width	Length	Height
10	59	44

Description	Color
End bracket , for screwing onto NS 35, can be equipped with terminal strip marker KLM-A or ZB 8	gray
Aluminum end bracket , for screwing on, for supporting the ends of 50 - 240 mm ² terminal blocks, can be labeled with ZB 10, for mounting on NS 35...	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
E/NS 35 N	0800886	50

Ordering data		
Type	Order No.	Pcs. / Pkt.
E/AL-NS 35	1201662	10

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 labeling 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 labeled with snap-on label



For CLIPFIX end brackets, can be labeled with label

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Halogen-free

Technical data		
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	-40 ... 100 [°C]	
Components	Halogen-free	

Technical data		
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	-40 ... 100 [°C]	
Components	Halogen-free	

Description	Color
Terminal strip markers , adjustable height, for CLIPFIX ... end bracket, can be labeled with SS-ZB	
Lettering field size: 20 x 8 mm	gray
Terminal strip markers , adjustable height, for CLIPFIX ... end bracket, can be labeled with EML (20x8) label or with B-STIFT or X-PEN	
	gray
Can be cut to length	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM 2	0807575	100

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



For E/UK and CLIPFIX 35 end brackets

General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 80 [°C]
Components	Silicone and halogen-free

Technical data		
Material	ABS	
Inflammability class according to UL 94	HB	
Temperature range	-40 ... 80 [°C]	
Components	Silicone and halogen-free	

Technical data		
Material	ABS	
Inflammability class according to UL 94	HB	
Temperature range	-40 ... 80 [°C]	
Components	Silicone and halogen-free	

Description	Color
Terminal strip markers , for E/MK, E/MK 1, and E/MBK end brackets, lettering field size: 24 x 4 mm	transparent
Terminal strip markers , for E/UK or CLIPFIX 35 end brackets, lettering field size: 25 x 6 mm	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM 1	1004319	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM	1004306	100

Insert strips for thermal transfer printers, 5000 labels p. roll	
Lettering field size: 24 x 4 mm	white
Lettering field size: 25 x 6 mm	white

Accessories		
EMT (24X4)R	0816265	1

Accessories		
EMT (25X6)R	0817264	1

Marking for terminal strips

Notes:
 1) Please specify desired labeling when ordering



For E/UK, E/NS 35 N, and CLIPFIX 35 end brackets



For end bracket and DIN rail mounting

General data	
Material	ABS
Inflammability class according to UL 94	HB
Temperature range	-40 ... 80 [°C]
Components	Silicone and halogen-free

Technical data		
Material	ABS	
Inflammability class according to UL 94	HB	
Temperature range	-40 ... 80	[°C]
Components	Silicone and halogen-free	

Technical data		
Material	PA	
Inflammability class according to UL 94	V2	
Temperature range	-40 ... 100	[°C]
Components	Silicone and halogen-free	

Description	Color
Terminal strip markers , for strip marking, adjustable height, for use with E/UK, E/NS 35 N or CLIPFIX 35 end brackets, lettering field size: 44 x 7 mm	transparent
Terminal strip marker carriers , for marking terminal groups, for E/UK end brackets, lettering field size: 40 x 17 mm Hood material: PE	gray
Terminal strip marker carriers , for marking terminal block groups, for mounting on NS 32... or NS 35... DIN rail, lettering field size: 40 x 17 mm Hood material: PE	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
KLM-A	1004348	100

Ordering data		
Type	Order No.	Pcs. / Pkt.
UBE	0800310	10
UBE/D	0800307	10

Insert strip for thermal transfer printer , for terminal strip marker UBE/D or UBE Lettering field size: 40 x 17 mm, 2300 labels p. roll	white
Insert strip for laser printer , perforated, for terminal strip marker KLM-A Lettering field size: 44 x 7 mm	white
Insert strip with special labeling , labeled according to customer specifications ¹⁾ Lettering field size: 44 x 7 mm Lettering field size: 40 x 17 mm	white white

Accessories		
Type	Order No.	Pcs. / Pkt.
ESL 44X 7	0808244	10
ESL 44X 7 CUS	0824404	1

Accessories		
Type	Order No.	Pcs. / Pkt.
EMT (40X17)R	0817293	1
ESL 40X17	0808095	10
ESL 40X17 CUS	0824403	1



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

Technical data	
Dimensions	[mm]
Width	19.7
Length	87
Height	35.4
General data	
Material	Steel
Description	Color
Angled bracket , for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	silver
Angled bracket , with DIN rail limit stop, for fixing DIN rails at an angle of 30°, with M6 screw, galvanized and thick layer passivated	silver

Technical data			
Width	Length	Height	
20	84	46	
Ordering data			
Type	Order No.	Pcs. / Pkt.	
BG/S	1201086	10	
BG/SA	1201604	10	

Technical data			
Width	Length	Height	
20	84	46	
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

Technical data	
Dimensions	[mm]
Width	20
Length	84
Height	12
General data	
Material	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

Technical data			
Width	Length	Height	
20	37	15	
Ordering data			
Type	Order No.	Pcs. / Pkt.	
BG/F	1201060	10	

Technical data			
Width	Length	Height	
20	37	15	
Ordering data			
Type	Order No.	Pcs. / Pkt.	
BG/F 1	1201112	10	

Universal adapters

- 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]		43	10	19
General data		Material		
Inflammability class according to UL 94		PA V2		
Description		Ordering data		
		Type	Order No.	Pcs. / Pkt.
Universal rail adapter, for NS 35... or NS 32... DIN rail, for accommodating 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 can be used for fully 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



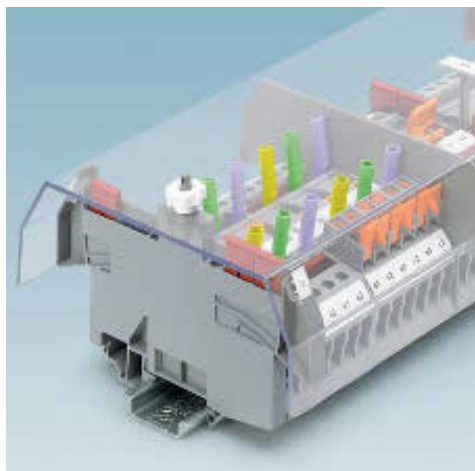
Support, insulated



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		Material			Material		
Inflammability class according to UL 94		PA V2			PA V2		
Description		Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Support, 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

Cover profiles



- Cover profiles provide protection against unauthorized use of terminal strips
- This profile has been specially adapted to the contour of the test disconnect terminal blocks
- The cover can be securely snapped onto the relevant 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 sealed as an option



Cover profile and hood, sealable

General data

Material	PVC
Temperature range	-15 ... 65 [°C]

Technical data

Material	PVC
Temperature range	-15 ... 65 [°C]

Ordering data

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
	transparent

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 can be sealed as an option
- 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

Technical data

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115 [°C]

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115 [°C]

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 115 [°C]

Ordering data

Description	Color
End brackets , for AP-ME cover profile, sealable, with storage option for plug-in bridges	gray
Holder , for AP-ME cover profile	gray

Type	Order No.	Pcs. / Pkt.
APH-ME	3034374	10

Ordering data

Type	Order No.	Pcs. / Pkt.
APT-ME	3034358	10

Cover profiles

- Cover profiles provide protection against unauthorized use of terminal strips
- Large-area labeling possible with AP-ES insert strips

Notes:

1) When ordering please specify the desired length in cm. Accuracy 1 mm.



Cover profile mounting on a DIN rail



Cover profile for mounting on end bracket

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			
Ordering data		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Cover profile , for terminal strips, can be labeled with insert strips AP-ES, cover profile carriers 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 , internal 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 E/UK or CLIPFIX 35 end bracket, material: PA					VAH	1201468	10
	gray						
Accessories		Accessories			Accessories		
Insert strips , 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			

CABINET add-on

Component mounting

Cover profiles

- Covering of live parts
- Protection against accidental actuation of terminal points or disconnect terminal blocks
- Protection against environmental influences
- Can be labeled



Single cover for UK terminal blocks



Cover profile, hinged for DIN rail mounting

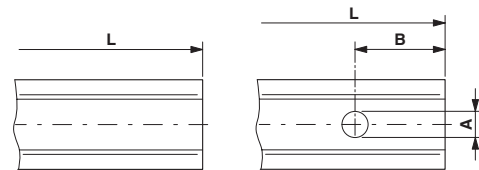
General data		Technical data			Technical data		
Material		ABS			Polycarbonate PC		
Inflammability class according to UL 94		HB			V2		
Temperature range	[°C]	-40 ... 80			-40 ... 115		
Components		Silicone and halogen-free			Silicone and halogen-free		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Single cover , for covering UK 2,5 N terminal block, snap fit	transparent	EA 4	0805360	50			
Single cover , for covering UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS, UK 4-LOER terminal blocks, snap fit	transparent	EA 5	1024014	100			
Single cover , for covering UK 16 N terminal block, snap fit	transparent	EA 7	1024250	100			
Single cover , for covering UK 3 N, UK 5 N, UK 6 N, UK 4-FSR, UK 4FS/FS, UK 4-LOER terminal blocks, snap fit, black print: Lightning flash	yellow	EA 5-WS	1024085	100			
Single cover , for covering UK 35, UIK 35 terminal blocks, cannot be labeled, snap fit	transparent	EA 11	1024263	50			
Holding profile , 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 , 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 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 labeled with zack marker strip ZB 10 , material: PA	gray				APK-TU	5022805	10

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:

Pcs.	Order No.	Length in mm	Dim. A	Dim. B	Dim. C
20	1208157	550	6	50	20

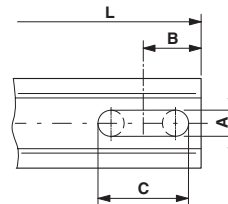


Example configuration for NS 35/7,5 UNPERF/...:

(minimum order quantity 20 units)

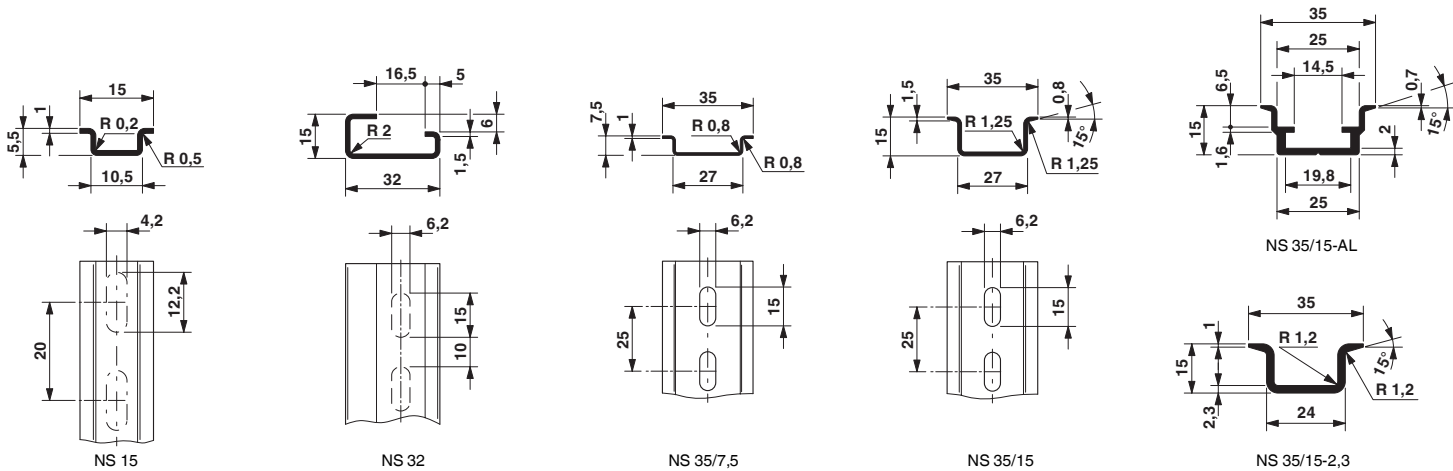
When ordering 20 unperforated NS 35/7,5 DIN rails without end holes with a length of 1750 mm, the following information must be given:

Pcs.	Order No.	Length in mm
20	1208115	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



CABINET add-on

Component mounting

Neutral busbars



3 x 10 mm



6 x 6 mm

Dimensions	[mm]
General data	
Material	

Technical data		
Width	Length	Height
10	1000	3
Material		
Copper		

Technical data		
Width	Length	Height
6	1000	6
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 , according to DIN VDE 0611-4, 6 x 6 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	
	silver

Ordering data		
Type	Order No.	Pcs. / Pkt.
NLS-CU 3/10 SN 1000MM	0402174	10

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



Support frame for SK shield connection clamps



Support frame, multi-level, insulated, for SK and SKS shield connection clamps

Dimensions	[mm]
General data	
Material	
Inflammability class according to UL 94	

Technical data		
Width	Length	Height
19.4	23.4	21.7
Material		
PA		
V2		

Technical data		
Width	Length	Height
19	23	36.8
Material		
PA		
V2		

Description	Color
Support , made from insulation material, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars	
	gray
Double support , made from insulation material, can be used as an option with 3 x 10 mm or 6 x 6 mm neutral busbar	
	gray
Height 36.8 mm	gray
Height 48 mm	gray
Triple support frame , made from insulation material	
	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
AB/SS	0404428	10

Ordering data		
Type	Order No.	Pcs. / Pkt.
ABN 2/SS	0404460	10
AB2/SS	0404431	10
AB3/SS	0800086	10

Power terminal blocks



10 (16) mm², 76 A, power terminal block



35 (35) mm², 125 A, power terminal block

Dimensions	
	[mm]
Max. electrical data	
Rated data	
Nominal current / cross section	[A] / [mm²]
Connection capacity	
One conductor	[mm²]
Two conductors (of the same type)	[mm²]
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	
76		0.5 - 16	20 - 6	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
57 / 10	-	-	-	
Solid		Stranded		
		Ferrule with/without plastic sleeve		
0.5 - 16	0.5 - 10	0.5 - 16	0.5 - 10	
0.5 - 10	0.5 - 10	0.5 - 10	-	
14		M5		
2.5 - 3				

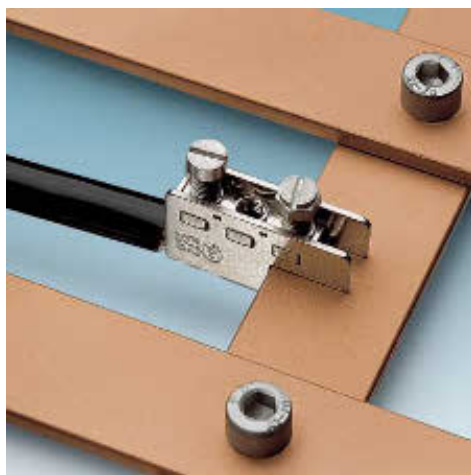
Technical data				
Width	Length	Height		
12	40	37		
I_{max} [A]		Max. Ø [mm²]	AWG	
125		0.75 - 35	18 - 2	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
125 / 35	-	-	101	
Solid		Stranded		
		Ferrule with/without plastic sleeve		
0.75 - 35	0.75 - 3	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	
14		M6		
3.2 - 3.7				

Description	Color
Power terminal block, copper, nickel-plated	aluminum

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
EK 116		0401010	10

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
EK 135		0401023	10

Branch terminal blocks



- 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



35 (35) mm², 125 A, branch terminal block

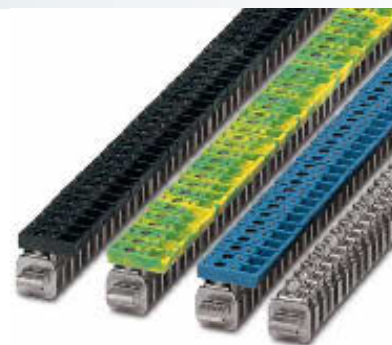
Dimensions	
	[mm]
Max. electrical data	
Rated data	
Nominal current / cross section	[A] / [mm²]
Connection capacity	
One conductor	[mm²]
Two conductors (of the same type)	[mm²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]

Technical data				
Width	Length	Height		
12	40	36		
I_{max} [A]		Max. Ø [mm²]	AWG	
125		0.75 - 35	18 - 2	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
125 / 35	-	-	-	
Solid		Stranded		
		Ferrule with/without plastic sleeve		
0.75 - 35	0.75 - 35	0.75 - 35	0.75 - 35	
0.75 - 10	0.75 - 10	0.75 - 10	-	
15		M6		
3.2 - 3.7				

Ordering data	
Type	I _{max}
Branch terminal block, for connection to copper bars up to 5 mm thick	aluminum

Ordering data			
Type	I _{max}	Order No.	Pcs. / Pkt.
AZK 35		0702997	10

L/N/PE connection terminal blocks



4 (6) mm², 41 A, 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 labeled for the corresponding circuit.

The connection terminal blocks meet these requirements in several ways:

- Through individual labeling of each terminal block
- By their blue, green-yellow or black housing
- Large labeling possible with ZB, UC-TM, UCT-TM

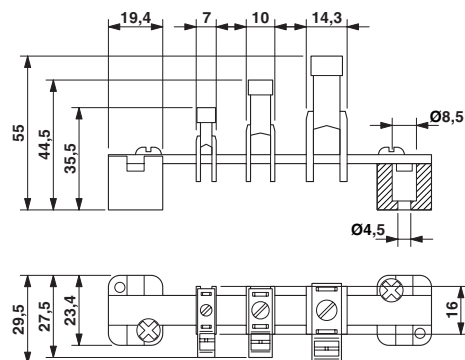
Dimensions	
	[mm]
Max. electrical data	
Rated data	
Rated voltage	[V]
Nominal current / cross section	[A] / [mm ²]
Rated cross section	[mm ²]
Cross section range	AWG
Connection capacity	
One conductor	[mm ²]
Two conductors (of the same type)	[mm ²]
Two stranded conductors with a TWIN ferrule	[mm ²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Insulation material	
Inflammability class according to UL 94	

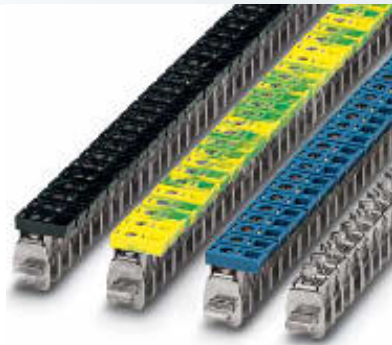


Technical data				
Width	Length	Height		
7	23.7	23.6		
I_{max} [A]		Max. Ø [mm ²]	AWG	
41		0.5 - 6	20 - 10	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
-	300	-	-	
32 / 4	20 / -	-	-	
4	-	-	-	
20 - 10	22 - 12	-	-	
Connection capacity		Ferrule		
Solid	Stranded	with/without plastic sleeve		
0.5 - 6	0.5 - 4	0.5 - 6	0.5 - 6	
0.5 - 2.5	0.5 - 2.5	0.5 - 2.5	-	
			0.5 - 2.5	
Stripping length	16			
Screw thread	M4			
Tightening torque	1.5 - 1.8			
Insulation material	PA			
Inflammability class according to UL 94	V2			

Description	Color
Connection terminal block, steel, pushed onto NLS neutral busbar, can be labeled 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	gray
Connection terminal block, steel, pushed onto NLS neutral busbar, can be labeled 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	gray
Connection terminal block, steel, pushed onto NLS neutral busbar, can be labeled 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	gray

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]	Max. Ø [mm ²]	AWG	
76	1.5 - 16	16 - 6	
IEC	UL/CUL	CSA	IEC/EN 60079-7
-	300	-	-
76 / 16	50 / -	65 / -	-
16	-	-	-
16 - 6	18 - 6	18 - 6	-
Solid	Stranded	Ferrule with/without 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			

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



Technical data			
Width	Length	Height	
14.3	27	39	
I _{max} [A]	Max. Ø [mm ²]	AWG	
125	2.5 - 35	14 - 2	
IEC / EN	UL/CUL	CSA	IEC/EN 60079-7
-	300	-	-
125 / 35	115 / -	135 / -	-
35	-	-	-
14 - 2	18 - 2	18 - 2	-
Solid	Stranded	Ferrule with/without plastic sleeve	
2.5 - 35	2.5 - 25	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 35 BK		0424039	50
AKG 35 GNYE		0424026	50
AKG 35 BU		0424013	50
AK 35		0404046	50

Europe connectors

Notes:

For more versions, visit www.phoenixcontact.net/catalog.



2.5 (2.5) mm², 24 A, 12-pole

- The Europe connectors for conductors with a cross section of up to 16 mm² feature wire protection
- Particularly suitable for fine strand conductors, including those without ferrules
- Insulating housing made from halogen-free polyamide
- High-quality metal parts with corrosion-resistant surfaces
- Secure fixing in housing



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	
One conductor	[mm ²]
Two conductors (of the same type)	[mm ²]
Two stranded conductors with a TWIN ferrule	[mm ²]
General data	
Stripping length	[mm]
Screw thread	
Tightening torque	[Nm]
Insulation 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	
24	450	0.5 - 2.5	20 - 14	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
450	300	-	-	
24 / 2.5	20 / -	-	-	
2.5	-	-	-	
20 - 14	22 - 12	-	-	
Connection capacity		Ferrule with/without plastic sleeve		
Solid	Stranded			
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	
5	M2,6	0.4 - 0.5	PA	V2

Description	Color
Europe connector, 12-pole, with wire protection	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
EC 2,5 P TR	3240167	10



4 (4) mm², 32 A, 12-pole



6 (6) mm², 41 A, 12-pole



16 (16) mm², 76 A, 12-pole



Technical data			
Width	Length	Height	
18.6	117	15	
I _{max.} [A]	U _{max.} [V]	Max. Ø [mm ²]	AWG
32	450	0.75 - 4	18 - 12
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	300	-	-
32 / 4	30 / -	-	-
4	-	-	-
18 - 12	20 - 10	-	-
Solid	Stranded	Ferrule with/without 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
41	450	1 - 6	16 - 10
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	300	-	-
41 / 6	50 / -	-	-
6	-	-	-
16 - 10	14 - 8	-	-
Solid	Stranded	Ferrule with/without 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
76	450	6 - 16	10 - 6
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	300	-	-
76 / 16	55 / -	-	-
16	-	-	-
10 - 6	10 - 6	-	-
Solid	Stranded	Ferrule with/without 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

CABINET add-on

Component mounting

Europe connectors

- These Europe connectors are suitable for solid and stranded conductors with a maximum cross section 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 poles 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-pole



6 (6) mm², 41 A, 12-pole

Dimensions		Width	Length	Height
	[mm]	16.6	94.9	13
Max. electrical data		<i>I</i> _{max.} [A]	<i>U</i> _{max.} [V]	Max. Ø [mm ²] AWG
		32	450	0.5 - 4 20 - 12
Rated data		IEC	UL/CUL	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 with/without plastic sleeve
One conductor	[mm ²]	0.5 - 4	0.5 - 4	0.75 - 2.5 0.75 - 2.5
Two conductors (of the same type)	[mm ²]	0.5 - 1	- 1	- -
Two stranded conductors with a TWIN ferrule	[mm ²]	-	-	0.5
General data		Stripping length	Screw thread	Tightening torque
	[mm]	5	M2,6	0.4 - 0.5
	[Nm]		PP	

Technical data				
Width	Length	Height		
16.6	94.9	13		
<i>I</i> _{max.} [A]	<i>U</i> _{max.} [V]	Max. Ø [mm ²]	AWG	
32	450	0.5 - 4	20 - 12	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
450	-	-	-	
32 / 4	-	-	-	
4	-	-	-	
20 - 12	-	-	-	
Solid	Stranded	Ferrule with/without plastic sleeve		
0.5 - 4	0.5 - 4	0.75 - 2.5	0.75 - 2.5	
0.5 - 1	- 1	-	-	
			0.5	
Stripping length	Screw thread	Tightening torque	Insulation material	
5	M2,6	0.4 - 0.5	PP	

Technical data				
Width	Length	Height		
18.9	116.5	14.9		
<i>I</i> _{max.} [A]	<i>U</i> _{max.} [V]	Max. Ø [mm ²]	AWG	
41	450	0.75 - 6	18 - 10	
IEC	UL/CUL	CSA	IEC/EN 60079-7	
450	-	-	-	
41 / 6	-	-	-	
6	-	-	-	
18 - 10	-	-	-	
Solid	Stranded	Ferrule with/without plastic sleeve		
0.75 - 6	0.75 - 6	0.75 - 4	0.75 - 2.5	
0.75 - 1.5	0.75 - 1.5	0.5 - 1	-	
			0.5 - 1	
Stripping length	Screw thread	Tightening torque	Insulation material	
6	M3	0.5 - 0.6	PP	

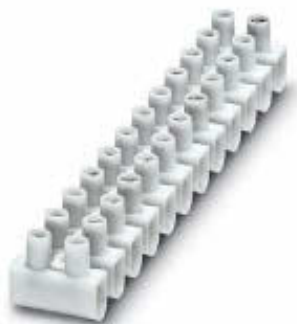
Description	Color
Europe connector, 12-pole	white
	black

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EC 4	3240168	10	
EC 4 BK	3240169	10	

Ordering data			
Type	Order No.	Pcs. / Pkt.	
EC 6	3240172	10	
EC 6 BK	3240173	10	



10 (10) mm², 57 A, 12-pole



16 (16) mm², 76 A, 12-pole



25 (25) mm², 101 A, 12-pole

Technical data			
Width	Length	Height	
17.3	133.8	23.4	
<i>I</i> _{max.} [A]	<i>U</i> _{max.} [V]	Max. Ø [mm ²]	AWG
57	450	1 - 10	16 - 8
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	-	-	-
57 / 10	-	-	-
10	-	-	-
16 - 8	-	-	-
Solid	Stranded	Ferrule with/without 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>I</i> _{max.} [A]	<i>U</i> _{max.} [V]	Max. Ø [mm ²]	AWG
76	450	1.5 - 16	14 - 6
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	-	-	-
76 / 16	-	-	-
16	-	-	-
14 - 6	-	-	-
Solid	Stranded	Ferrule with/without 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>I</i> _{max.} [A]	<i>U</i> _{max.} [V]	Max. Ø [mm ²]	AWG
101	750	10 - 25	8 - 4
IEC	UL/CUL	CSA	IEC/EN 60079-7
750	-	-	-
101 / 25	-	-	-
25	-	-	-
8 - 4	-	-	-
Solid	Stranded	Ferrule with/without 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



2.5 (2.5) mm², 24 A, 3-pole



- 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

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	
One conductor	[mm ²]
General data	
Stripping length	[mm]
Insulation 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
24	450	0.5 - 2.5	20 - 14
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	600	-	-
24 / 2.5	20 / -	-	-
2.5	-	-	-
20 - 14	20 - 16	-	-
Solid	Stranded	Ferrule with/without plastic sleeve	
0.5 - 2.5	-	-	-
General data			
Stripping length	[mm]	8	
Insulation material		PC/PA	
Inflammability class according to UL 94		V2	

Description	Color
Plug-in terminal block, 3-pole	transparent
5-pole	transparent
8-pole	transparent

Ordering data		
Type	Order No.	Pcs. / Pkt.
JBC 2,5/3	3240164	100



2.5 (2.5) mm², 24 A, 5-pole



2.5 (2.5) mm², 24 A, 8-pole



Technical data

Width	Length	Height	
26	15.6	8.9	
I _{max.} [A]	U _{max.} [V]	Max. Ø [mm ²]	AWG
24	450	0.5 - 2.5	20 - 14
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	600	-	-
24 / 2.5	20 / -	-	-
2.5	-	-	-
20 - 14	20 - 16	-	-
Solid	Stranded	Ferrule with/without plastic sleeve	
0.5 - 2.5	-	-	-
8			
PC/PA			
V2			

Ordering data

Type	Order No.	Pcs. / Pkt.
JBC 2,5/5	3240165	100

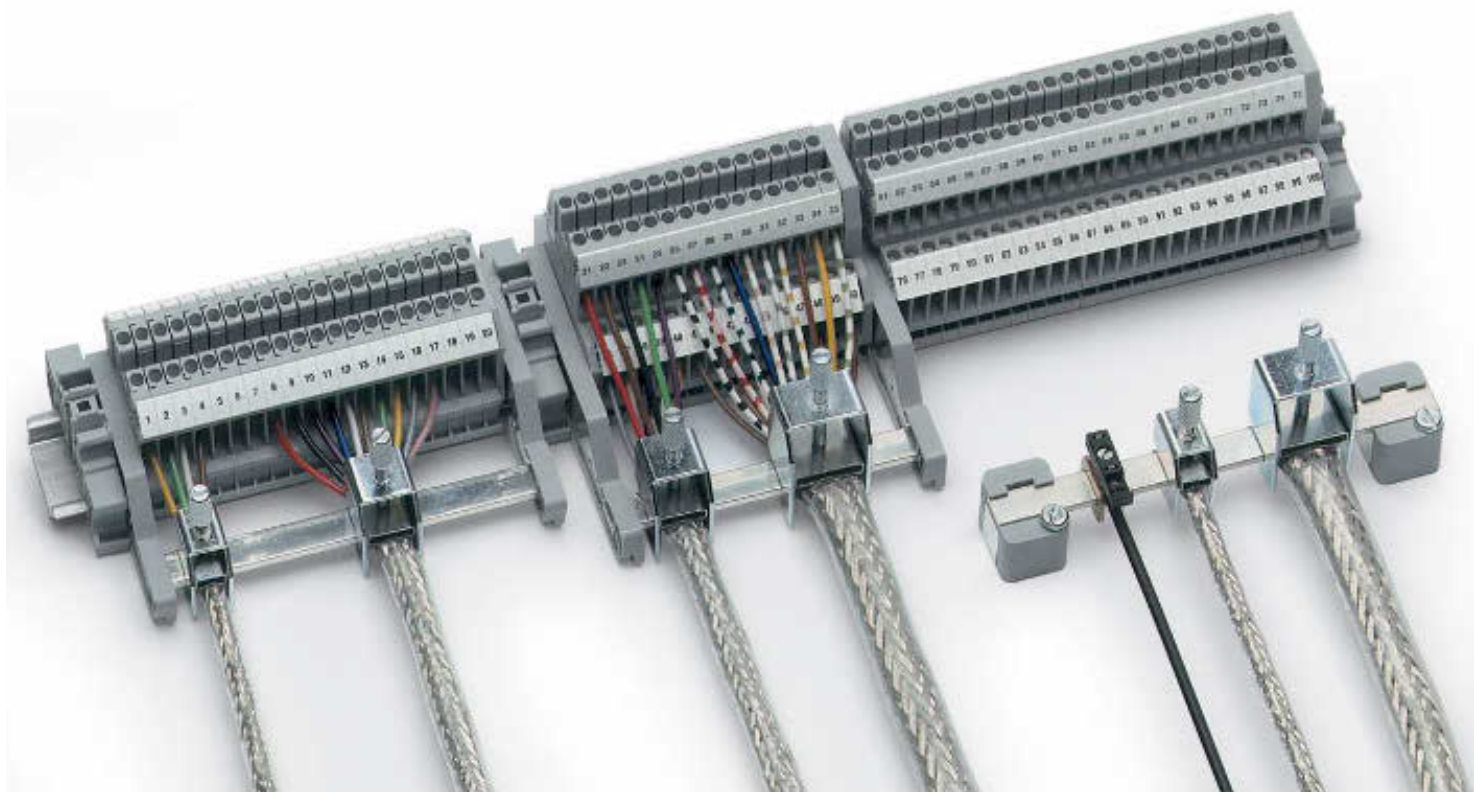


Technical data

Width	Length	Height	
39.2	15.6	8.9	
I _{max.} [A]	U _{max.} [V]	Max. Ø [mm ²]	AWG
24	450	0.5 - 2.5	20 - 14
IEC	UL/CUL	CSA	IEC/EN 60079-7
450	600	-	-
24 / 2.5	20 / -	-	-
2.5	-	-	-
20 - 14	20 - 16	-	-
Solid	Stranded	Ferrule with/without plastic sleeve	
0.5 - 2.5	-	-	-
8			
PC/PA			
V2			

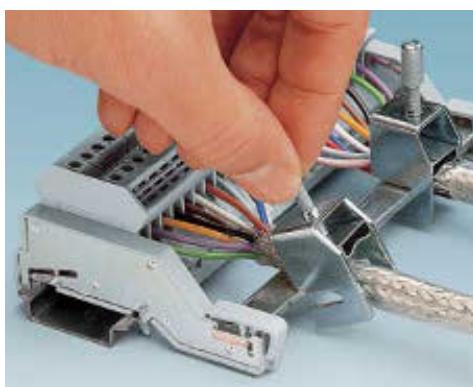
Ordering data

Type	Order No.	Pcs. / Pkt.
JBC 2,5/8	3240166	50



Large-surface shielding

Shield connection clamps are suitable for all standard cable shields and support EMC-compliant wiring through large surfaces and low-impedance and low-resistance contact transitions.



Easy to install

The shield connection clamps offer optimum wiring convenience. Only once the terminal strip has been wired is the shield connection clamp mounted by simply pivoting it into place.

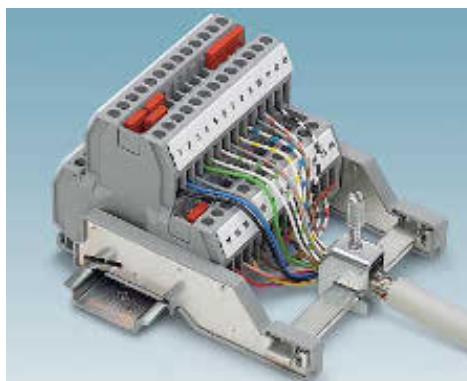


Safe contact

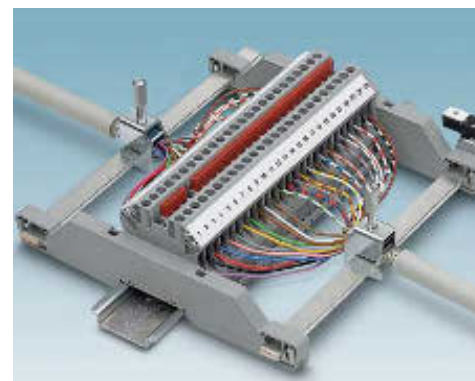
Phoenix Contact support frames for shield connection clamps are easily snapped onto the DIN rail. The integrated contact metals allow the ground potential to be automatically connected to the busbar.



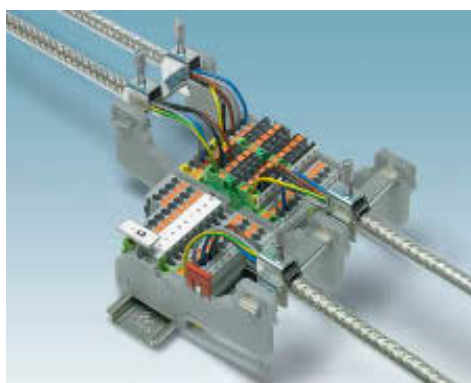
Conductors with a diameter of 2 to 35 mm can make optimum contact with the shield connection clamps of the SK series without any special tools and are available for various types of mounting.



The AB-SK single-sided shield support frames are particularly suitable for space-saving conductor connection for terminal blocks and devices with cable entry at the side.



The double support frame offers simple handling with optimum EMC properties for the two-sided support of a shielded cable. Either an isolated or grounded structure can be used.



The easiest way to wire terminal blocks with a front connection is using AB-SK TOP support frames located above the blocks. The NLS rail can be mounted in the support frames vertically, horizontally or at a 45° angle for optimum conductor placement.



The 3 x 10 mm PEN conductor busbar can also be quickly and safely snapped into the contact zone. The ground potential is thereby automatically connected to the busbar.



Having the same design as the SK series, shield supports with terminal blocks SK ...-D can also be realized directly on the mounting plate or back wall. The terminal blocks are simply pivoted into the two slots above the conductor.



Support frames with a lateral metal insert for the PEN conductor busbar or AB-SK/E T-shaped compact support frames are used to freely position the shield connection clamps on the mounting plate.



Alternatively, the shielding can also be connected to ground potential isolated from protective earth ground. An appropriate contact to the PEN conductor busbar is established using a pick-off terminal block.



The easiest way to wire terminal blocks with a front connection is using support frames located above the blocks. This method also allows multi-level terminal blocks with short wiring paths to be connected in compliance with EMC requirements.

Shielding

SK ... shield connection clamps

The screw shield connection clamps in the SK series feature:

- Simple handling
- Knurled screw
- Spring-loaded, large pressure piece
- Support for direct and busbar mounting



Shield connection clamps for busbar mounting



Shield connection clamps for direct mounting

Description	Color	Ordering data			Ordering data		
		Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ							
Ø 2 - 5 mm, tightening torque 0.4 Nm	silver	SK 5	3025338	10			
Ø 3 - 8 mm, tightening torque 0.6 Nm	silver	SK 8	3025163	10			
Ø 3 - 14 mm, tightening torque 0.8 Nm	silver	SK 14	3025176	10			
Ø 5 - 20 mm, tightening torque 0.8 Nm	silver	SK 20	3025189	10			
Ø 5 - 28 mm, tightening torque 1 Nm	silver	SK 28	3026997	10			
Ø 20 - 35 mm, tightening torque 1.5 - 1.8 Nm	silver	SK 35	3026463	10			
Shield connection clamp , for applying the shield directly to conductive mounting plates, plate thickness of 1 - 2 mm							
Ø 2 - 5 mm, tightening torque 0.4 Nm	silver				SK 5-D	3025406	10
Ø 3 - 8 mm, tightening torque 0.6 Nm	silver				SK 8-D	3026861	10
Ø 3 - 14 mm, tightening torque 0.8 Nm	silver				SK 14-D	3026874	10
Ø 5 - 20 mm, tightening torque 0.8 Nm	silver				SK 20-D	3026887	10
Ø 5 - 28 mm, tightening torque 1 Nm	silver				SK 28-D	3027006	10
Ø 20 - 35 mm, tightening torque 1.5 - 1.8 Nm	silver				SK 35-D	3026890	10

SKS ... shield connection clamps

- The SKS ... spring-cage shield connection clamps 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



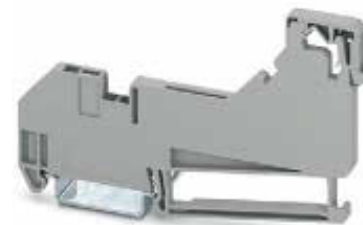
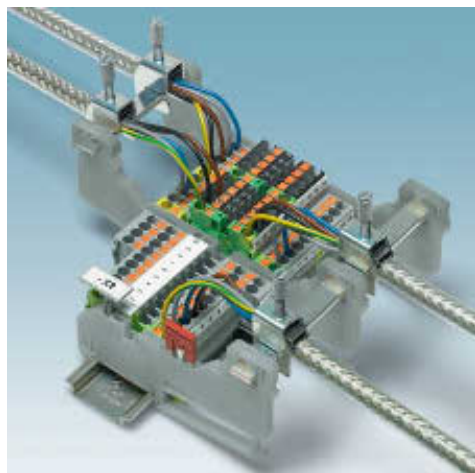
Shield connection clamps for DIN rail mounting

		Ordering data			Ordering data		
Description	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Shield connection clamp , for applying the shield to busbars, contact resistance < 1 mΩ							
Ø 3 - 8 mm	silver	SKS 8	3240210	10			
Ø 3 - 14 mm	silver	SKS 14	3240211	10			
Ø 5 - 20 mm	silver	SKS 20	3240212	10			
Shield connection clamp , for directly applying the shield to conductive mounting plates, plate thickness of 1 - 2 mm, with M4 mounting screw							
Ø 3 - 8 mm	silver	SKS 8-D	3240213	10			
Ø 3 - 14 mm	silver	SKS 14-D	3240214	10			
Ø 5 - 20 mm	silver	SKS 20-D	3240215	10			
Shield connection clamp , with screwfix, for mounting on NS 35... DIN rails, for shield support on busbars							
Ø 3 - 8 mm	silver				SKS 8-NS35	3240216	10
Ø 3 - 14 mm	silver				SKS 14-NS35	3240217	10
Ø 5 - 20 mm	silver				SKS 20-NS35	3240218	10
Shield connection clamp , with snap-on foot, for mounting on NS 35... DIN rails, for shield support on busbars							
Ø 3 - 8 mm	silver				SKS 8-SNS35	3062786	10
Ø 3 - 14 mm	silver				SKS 14-SNS35	3062799	10
Ø 5 - 20 mm	silver				SKS 20-SNS35	3062809	10

Shielding

Support frame for shield support on one side

N



Support frame, tall, for SK and SKS shield connection clamps

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 placement
- Compact design with 5.2 mm pitch
- Can be labeled using zack marker strips and KLM terminal strip markers, see page 346
- Parking facility for FBS plug-in bridges
- End holder function
- For mounting SK and SKS shield connection clamps

AB-SK

- The AB-SK single-sided shield support frames are particularly suitable for space-saving conductor connection for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting SK shield connection clamps

AB-SKS

- For convenient shield connection, especially for single and multi-level terminal blocks and devices with a front connection
- Isolated from DIN rail
- End holder function
- For mounting SK and SKS shield connection clamps

General data

Material	PA
Description	Color
Support frame with end holder function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK and SKS shield connection clamps	gray
Support frame with end holder function, for mounting on NS 35..., isolated from NS 35..., for accommodating 3 x 10 mm busbars, for SK... and SKS... shield connection clamps	gray
Support frame, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray
Support frame, 65 mm, for mounting on NS 35... direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps	gray
Support frame with end holder function, for mounting on NS 35..., isolated from NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps	gray
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver

Technical data

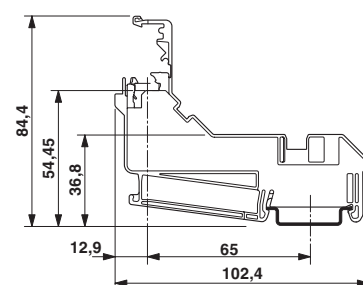
PA

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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AB-SK TOP



Support frame, for SK shield connection clamps



Support frame, 65 mm long, for SK shield connection clamps



Insulated support frame, tall, for SK and SKS shield connection clamps

Technical data

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

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

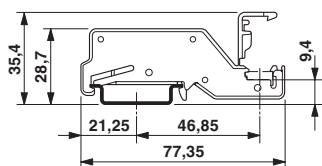
PA

Ordering data

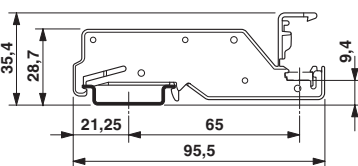
Type	Order No.	Pcs. / Pkt.
AB-SKS 60	3240223	10

Accessories

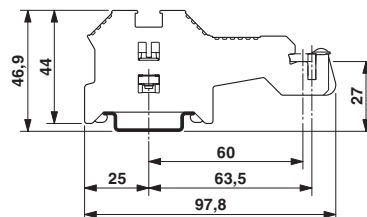
NLS-CU 3/10 SN 1000MM	0402174	10
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AB-SK



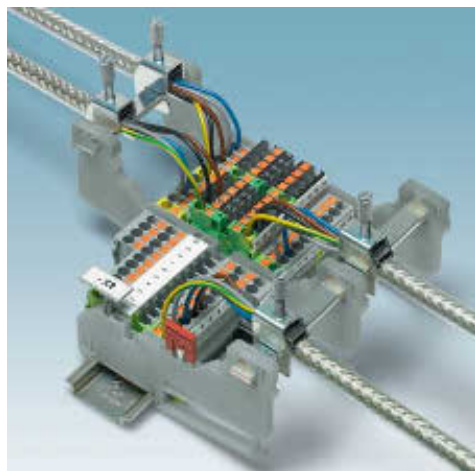
AB-SK 65



AB-SKS 60

Shielding

Double support frame for shield support on both sides



Double support frame, tall, for SK and SKS shield connection clamps

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 placement
- Compact design with 5.2 mm pitch
- Can be labeled using zack marker strips and KLM terminal strip markers, see page 346
- Parking facility for bridges and connectors
- For mounting SK shield connection clamps

AB-SK 65-D

- The double shield support frames are particularly suitable for space-saving conductor connections for terminal blocks and devices with cable entry at the side
- Available in two lengths
- For mounting SK shield connection clamps

General data

Material

Description Color

Double support frame with end bracket function, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK and SKS shield connection clamps

Double support frame with end bracket function, for mounting on NS 35..., isolated from NS 35..., for accommodating 3 x 10 mm busbars, for SK and SKS shield connection clamps

Double support frame, for mounting on NS 35..., direct contact with NS 35..., for accommodating 3 x 10 mm busbars, SK shield connection clamps

gray

Double support frame, 65 mm, for mounting on NS 35..., isolated from NS 35... for accommodating 3 x 10 mm busbars, SK shield connection clamps

gray

PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

silver

Technical data

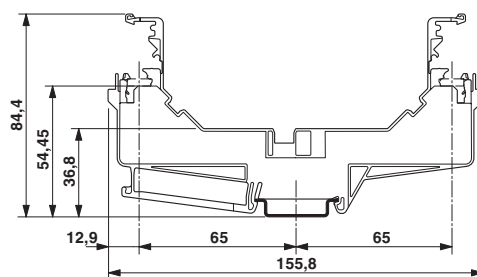
PA

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

N



Insulated, double support frame, tall, for SK and SKS shield connection clamps



Double support frame, tall, for SK shield connection clamps



Insulated, double support frame, tall, for SK shield connection clamps

Technical data

PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK-D TOP INSULATED	3062087	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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Technical data

PA

Ordering data

Type	Order No.	Pcs. / Pkt.
AB-SK 65-D	3026900	10

Accessories

NLS-CU 3/10 SN 1000MM	0402174	10
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Technical data

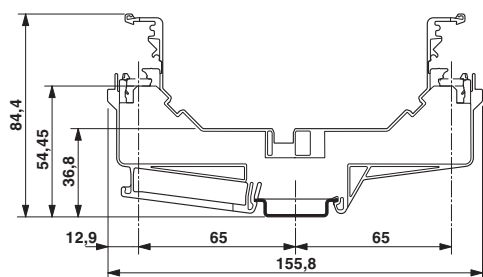
PA

Ordering data

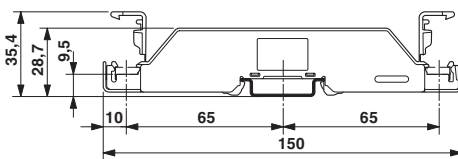
Type	Order No.	Pcs. / Pkt.
AB-SK 65-D INSULATED	3040889	10

Accessories

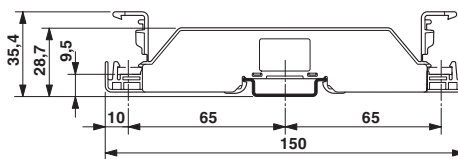
NLS-CU 3/10 SN 1000MM	0402174	10
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AB-SK-D TOP INSULATED



AB-SK 65-D



AB-SK 65-D INSULATED

Shielding

Support frame for direct mounting

The support frames are available in the following versions:

- AB/SS for insulated installation on the mounting plate
- AB/SS-M for uninsulated installation on the mounting plate
- For mounting SK and SKS shield connection clamps

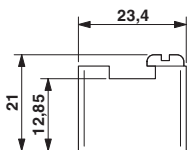


Support frame for SK shield connection clamps

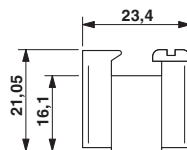


Support frame for SK and SKS shield connection clamps

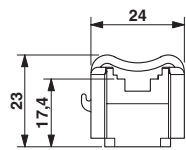
General data		Technical data			Technical data		
Material		PA			PA		
Description		Ordering data			Ordering data		
	Color	Type	Order No.	Pcs. / Pkt.	Type	Order No.	Pcs. / Pkt.
Support, made from insulation material, with retaining screw, for 3 x 10 mm or 6 x 6 mm busbars		AB/SS	0404428	10			
	gray	AB/SS-M	3025888	10			
Support, made from insulation material, with retaining screw, for 3 x 10 mm busbars							
	gray				AB/SKS	3240224	10
Support, made from insulation material, for 3 x 10 mm or 6 x 6 mm busbars		Accessories			Accessories		
	gray	NLS-CU 3/10 SN 1000MM	0402174	10	NLS-CU 3/10 SN 1000MM	0402174	10
PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A							
	silver						



AB/SS



AB/SS-M



AB/SKS

Support



Support, multi-level, insulated

- 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 insulated
- Direct mounting

General data

Material	
Description	
Color	
<p>Double support, made from insulation material, can be used as an option with 3 x 10 mm or 6 x 6 mm neutral busbar, height: 48 mm</p>	
Height 48 mm	gray
Height 36.8 mm	gray
<p>Triple support frame, made from insulation material</p>	
	gray

PEN conductor busbar, 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A

Technical data

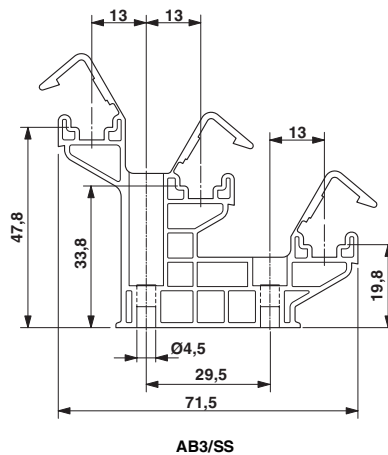
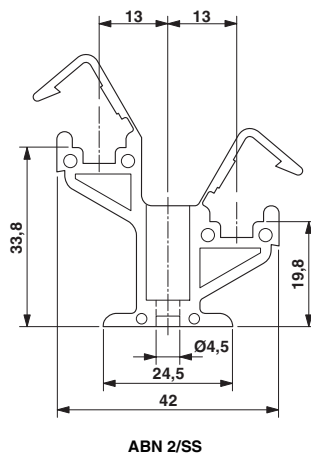
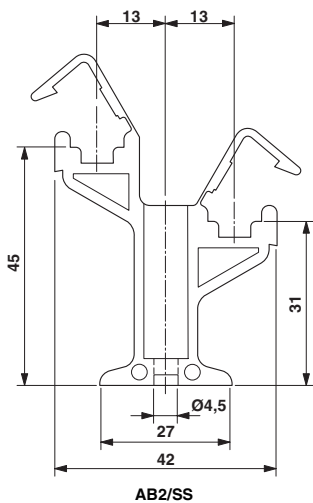
Material	PA
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Ordering data

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
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Shielding

Support frame for direct and DIN rail mounting

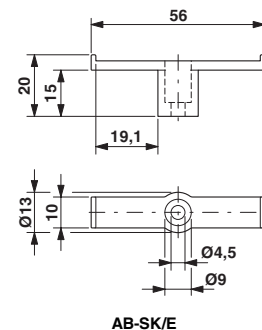


- T-shaped support frames for space-saving direct mounting and free positioning on the mounting plate
- Suitable for SK 5 to SK 14, SKS 8, and SKS 14 shield connection clamps
- Version for NS 35 DIN rail mounting



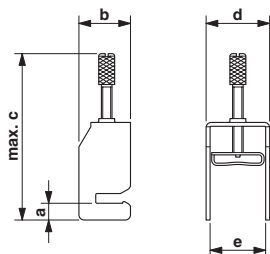
General data	
Material	Aluminum
Description	Color
Support , for direct mounting with contacting on the mounting surface	silver
Support frame , for mounting on NS 35 DIN rails	silver
PEN conductor busbar , 3 x 10 mm, 1 m long, material: copper, tin-plated, nominal current: 140 A	silver

Technical data		
Ordering data		
Type	Order No.	Pcs. / Pkt.
AB-SK/E	3026476	10
AB-SK/E-NS 35	3213111	10
Accessories		
NLS-CU 3/10 SN 1000MM	0402174	10

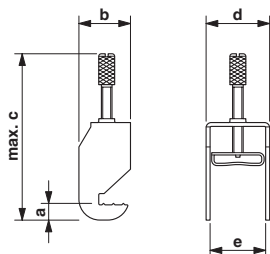


SK shield connection clamps

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



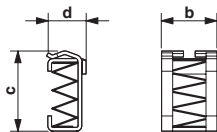
SK ...



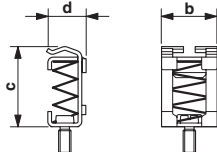
SK ...-D

SKS shield connection clamps

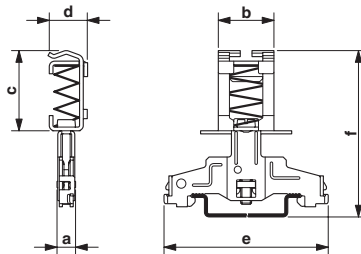
Dimensions in mm						
	a	b	c	d	e	f
SKS 8	-	18	26	12.4	-	-
SKS 14	-	21	32	19	-	-
SKS 20	-	27	40.5	24.7	-	-
SKS 8-D	-	18	26	12.4	-	-
SKS 14-D	-	21	32	19	-	-
SKS 20-D	-	27	40.5	24.7	-	-
SKS 8-NS35	6	18	26	12.4	52	54
SKS 14-NS35	6	21	32	19	52	60
SKS 20-NS35	6	27	40.5	24.7	52	68.4



SKS ...



SKS ...-D

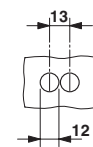
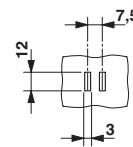


SKS ...-NS35

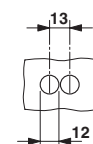
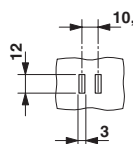
Drilling and punching diagrams for SK...-D

Punching template

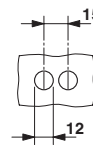
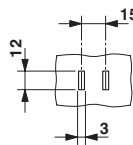
Drilling plan



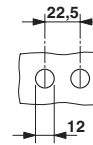
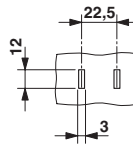
SK 5-D



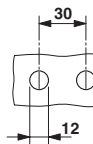
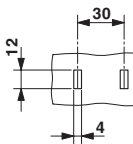
SK 8-D



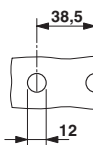
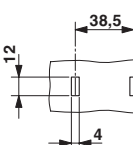
SK 14-D



SK 20-D



SK 28-D



SK 35-D



The wide choice of cable ducts provides users with flexible and straightforward cable installation solutions that simply involve breaking out the lateral segments without the need for tools.

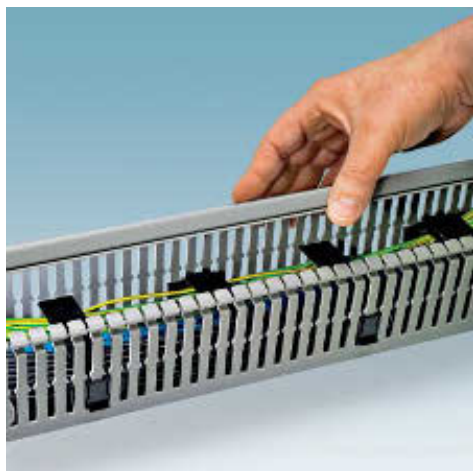


The cable clamps can be used for easy and secure installation of individual or bundled cables with a diameter of up to 64 mm. The halogen-free plastic troughs keep the cables perfectly secure while at the same time protecting the conductors.



The plastic cable markers are suitable for both marking and bundling conductors and cables. Transparent sealing caps protect the marking against dirt and environmental influences.

Halogen-free cable ducts and accessories



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



Notes:
For cable ducts cut to customer requirements, visit: www.phoenixcontact.net/catalog



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

Description	Color
Cable duct, 2000 mm long, comprising lower and upper part	
W x H: 25 x 25 mm	gray
W x H: 25 x 40 mm	gray
W x H: 25 x 60 mm	gray
W x H: 25 x 80 mm	gray
W x H: 30 x 40 mm	gray
W x H: 30 x 60 mm	gray
W x H: 30 x 80 mm	gray
W x H: 30 x 100 mm	gray
W x H: 40 x 40 mm	gray
W x H: 40 x 60 mm	gray
W x H: 40 x 80 mm	gray
W x H: 40 x 100 mm	gray
W x H: 60 x 40 mm	gray
W x H: 60 x 60 mm	gray
W x H: 60 x 80 mm	gray
W x H: 60 x 100 mm	gray
W x H: 80 x 25 mm	gray
W x H: 80 x 40 mm	gray
W x H: 80 x 60 mm	gray
W x H: 80 x 80 mm	gray
W x H: 80 x 100 mm	gray
W x H: 100 x 40 mm	gray
W x H: 100 x 60 mm	gray
W x H: 100 x 80 mm	gray
W x H: 100 x 100 mm	gray
W x H: 120 x 60 mm	gray
W x H: 120 x 80 mm	gray

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD-HF 25X25	3240340	25
CD-HF 25X40	3240341	24
CD-HF 25X60	3240342	30
CD-HF 25X80	3240343	10
CD-HF 30X40	3240344	20
CD-HF 30X60	3240345	24
CD-HF 30X80	3240346	12
CD-HF 30X100	3240347	24
CD-HF 40X40	3240348	25
CD-HF 40X60	3240349	20
CD-HF 40X80	3240350	10
CD-HF 40X100	3240351	20
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	8

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	

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

Universal wire holding bracket, pre-perforated for cable duct widths of 40, 60, 80, and 100 mm

CD WR	3240284	10
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Plastic body-bound rivet, 4 mm diameter, for a material thickness of 1.5 ... 6 mm

RVT-PA 4	3240498	100
RVT-PA 6	3240499	100

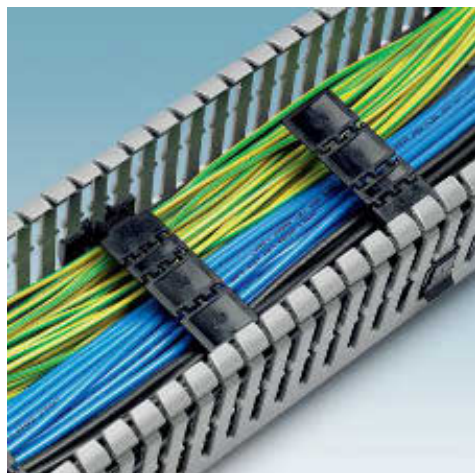
6 mm diameter, material thickness of 2 ... 8 mm

Rivet setting tool, for use with RVT-PA 4 plastic body-bound rivets

UNIFOX-RVT P 4	1212478	1
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Rivet setting tool, for use with RVT-PA 6 plastic body-bound rivets

UNIFOX-RVT P 6	1212509	1
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- 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:
www.phoenixcontact.net/catalog

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	30
CD 25X80	3240197	10
CD 30X40	3240278	20
CD 30X60	3240280	24
CD 30X80	3240282	12
CD 30X100	3240283	24
CD 40X40	3240189	25
CD 40X60	3240192	20
CD 40X80	3240198	10
CD 40X100	3240294	20
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	8

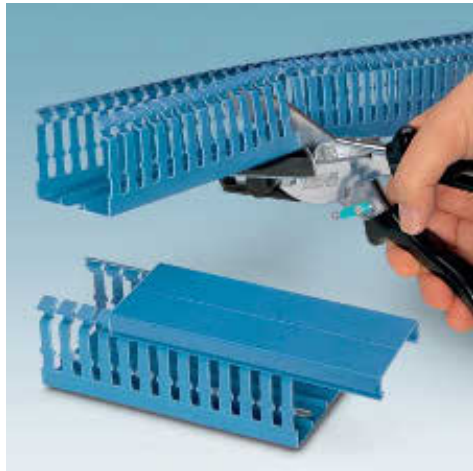
Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 WH	3240616	25
CD 25X40 WH	3240617	24
CD 25X60 WH	3240618	30
CD 25X80 WH	3240619	10
CD 30X40 WH	3240620	20
CD 30X60 WH	3240621	24
CD 30X80 WH	3240622	12
CD 30X100 WH	3240623	24
CD 40X40 WH	3240624	25
CD 40X60 WH	3240625	20
CD 40X80 WH	3240626	10
CD 40X100 WH	3240627	20
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	8

Ordering data		
Type	Order No.	Pcs. / Pkt.
CD 25X25 BU	3240301	25
CD 25X40 BU	3240302	24
CD 25X60 BU	3240303	30
CD 25X80 BU	3240304	10
CD 30X40 BU	3240305	20
CD 30X60 BU	3240306	24
CD 30X80 BU	3240307	12
CD 30X100 BU	3240308	24
CD 40X40 BU	3240309	25
CD 40X60 BU	3240310	20
CD 40X80 BU	3240311	10
CD 40X100 BU	3240312	20
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	10
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	8

Accessories		
Type	Order No.	Pcs. / Pkt.
CD COVER 25	3240285	14
CD COVER 30	3240295	10
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



- 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]

Technical data		
Width	Length	Height
-	245	-
0.43		

Description		Color
Cable duct cutter		black
Cable duct cutter		black

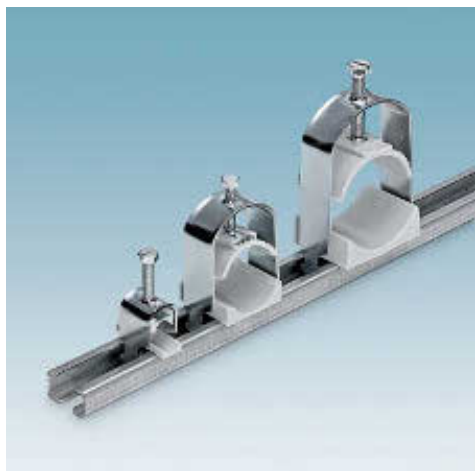
Ordering data		
Type	Order No.	Pcs. / Pkt.
CUTFOX-CD	1212474	1
PPS CD M	1207569	1

Replacement blade , for PPS CD M
Replacement counter support blade (grip protection) , for PPS CD M
Workbench , with 700 x 1200 x 50 mm plywood panel, without mounting screws and bore holes

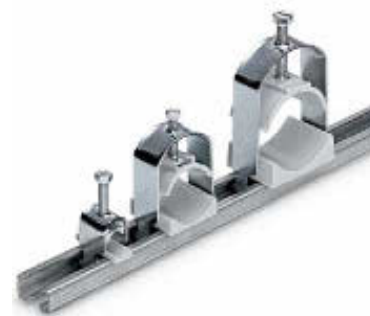
Accessories		
Type	Order No.	Pcs. / Pkt.
PPS CD BLADE	1207572	1
PPS CD M COHO	1208995	1
PPS TABLE	1206285	1



Cable clamps and DIN rails



- 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

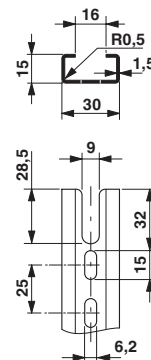
Steel

Ordering data

Description

Cable clamps, 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

Cable bundling and cable routing

Plastic and high-grade steel cable binders

- For bundling control lines and cables
- The cable binders can even be used indoors or outdoors under harsh industrial conditions
- With the UNIFOX-CT... cable binder tool, the cable binders can be easily tightened and severed in a single operation
- The plastic cable binders are ideal for use with the WMTB, KMK 2, and KMK 4 cable markers from Phoenix Contact. They are available in two designs:
 - Transparent, for standard applications
 - Resistant to ultra-violet rays (black), for outdoor systems

High-grade steel cable binders

- The high-grade steel cable binders are ideal for use with the KMV... and SD-WMTBS... cable markers from Phoenix Contact.
- The UNIFOX-CT M7,9 is available to facilitate fitting of the high-grade steel cable binders

Notes:

KMK cable markers, see page 176



Cable binders

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 85 [°C]

Technical data	
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Ordering data	
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Description	Color	Type	Order No.	Pcs. / Pkt.
Cable binders, transparent				
Bundle Ø: 1.5 - 22 mm, tensile strength 80 N	transparent	PKB 100X2,5	1005457	1000
Bundle Ø: 1.5 - 35 mm, tensile strength 178 N	transparent	PKB 140X3,6	1005460	1000
Bundle Ø: 1.5 - 48 mm, tensile strength 222 N	transparent	PKB 190X4,8	1005473	1000
Bundle Ø: 1.5 - 50 mm, tensile strength 80 N	transparent	PKB 200X2,5	1005486	1000
Bundle Ø: 1.5 - 76 mm, tensile strength 222 N	transparent	PKB 290X4,8	1005499	1000
Bundle Ø: 1.5 - 102 mm, tensile strength 222 N	transparent	PKB 370X4,8	1005509	1000
Cable binders, resistant to UV rays, black				
Bundle Ø: 1.5 - 22 mm, tensile strength 80 N	black	PKB 100X2,5 BK	1005512	1000
Bundle Ø: 1.5 - 35 mm, tensile strength 178 N	black	PKB 140X3,6 BK	1005525	1000
Bundle Ø: 1.5 - 48 mm, tensile strength 222 N	black	PKB 190X4,8 BK	1005538	1000
Bundle Ø: 1.5 - 50 mm, tensile strength 80 N	black	PKB 200X2,5 BK	1005541	1000
Bundle Ø: 1.5 - 76 mm, tensile strength 222 N	black	PKB 290X4,8 BK	1005554	1000
Bundle Ø: 1.5 - 102 mm, tensile strength 222 N	black	PKB 370X4,8 BK	1005567	1000
Steel cable binders, rustproof, non-magnetic				
Dimensions: 130 x 4.6 mm	silver	PKBV 130X4,6	0806657	100
Dimensions: 200 x 4.6 mm	silver	PKBV 200X4,6	0806660	100

Accessories	
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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		
UNIFOX-CT 4,8	1212475	1
Professional cable binder pliers , for plastic cable binders with a width of 2.2 - 4.8 mm, up to 1.6 mm thick		
UNIFOX-CT 4,8P	1212609	1
Cable binder pliers , for steel cable binders with a width of up to 7.9 mm, for a material thickness of up to 0.3 mm		
UNIFOX-CT M 7,9	1212610	1



Conductor and cable markers with molded cable binders



- The polyamide conductor and cable markers can be used as a universal marking label for conductor and cable bundles indoors
- The products can be labeled by hand with a marker pen or by applying a printed label

General data	
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

Description	Color
Cable and conductor markers for labels , lettering field size: 20 x 8 mm	white

Textile labels , lettering field size: 20 x 8 mm 2500 labels per roll	white
Labels for thermal transfer printer 2500 labels per roll	white
Markers 500 markers per roll	white



For adhesive labels, conductor diameter of up to 20 mm

Technical data

Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

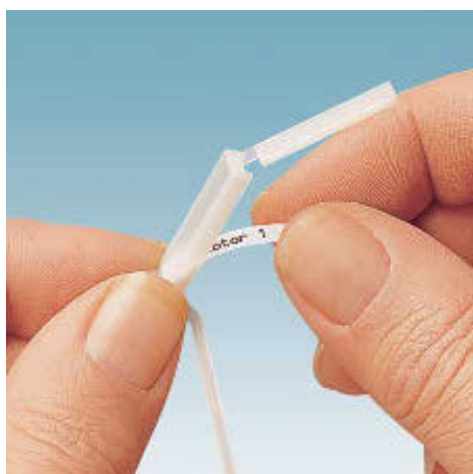
Ordering data

Type	Order No.	Pcs. / Pkt.
KME	0807083	50

Accessories

EMLC (20X8)R	0815680	1
EML (20X8)R	0816786	1
EMLP (20X8)R	0819482	1

Conductor and cable markers with molded cable binders



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- An insert label is placed inside the sealing cap to protect the labeling against dirt

General data	
Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

Description	Color
Cable and conductor markers for insert labels , can be labeled with EST or ESL, diameter of 1 - 12 mm, lettering field size: 24 x 4 mm	white

Insert strips for laser printers , perforated, A4 sheet, 1 sheet = 488 labels Lettering field size: 24 x 4 mm	white
Insert strips for thermal transfer printers , 5000 labels p. roll Lettering field size: 24 x 4 mm	white



For insert labels, 12 mm conductor diameter

Technical data

Material	PA
Inflammability class according to UL 94	V2
Temperature range	-40 ... 100 [°C]
Components	Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
LM	1004377	100

Accessories

ESL 24X 4	0808231	10
EMT (24X4)R	0816265	1

Cable bundling and cable routing

Conductor and cable markers for insert labels



- Plastic cable markers for marking and bundling multiple conductors and cables indoors
- The printed insert label is protected from dirt by the sealing cap
- The KMK 2 and KMK 4 versions have eyelets. They are fastened to the cable with PKB ... cable binders.

Notes:
Matching cable binders, see page 382.
¹⁾ For ordering example, see page 243.



For insert labels measuring 29 x 8 mm

General data	
Material	
Temperature range	[°C]
Components	

Technical data	
Material	Polyethylene
Temperature range	-40 ... 80
Components	Silicone and halogen-free

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

Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled 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 eyelets for fastening PKB cable binders, can be labeled with ESL..., EMT... or US-EMP... insert labels, lettering field size: 29 x 8 mm

transparent

Plastic cable markers for insert labels, with cable binders with a pointed end, can be labeled with ESL..., EMT... or US-EMP... insert labels, diameter: 16 ... 35 mm, lettering field size: 40 x 17 mm

transparent

Plastic cable markers for insert labels, with eyelets for fastening with PKB cable binders, can be labeled with ESL..., EMT... or US-EMP... insert labels, lettering field size: 40 x 17 mm

transparent

Insert strips for laser printers, can also be labeled with B-STIFT, X-PEN or plotter, A4, perforated, 1 sheet = 174 labels, lettering field size: 29 x 8 mm

Insert strips for laser printers, A4, perforated, 1 sheet = 174 labels, lettering field size: 29 x 8 mm, **labeled acc. to customer specifications¹⁾**

Insert strips for laser printers, perforated, 1 sheet = 56 labels, lettering field size: 40 x 17 mm

Insert strips for laser printers, perforated, 1 sheet = 56 labels, lettering field size: 40 x 17 mm, **labeled acc. to customer specifications¹⁾**

Lettering field size: 40 x 17 mm

Insert labels for thermal transfer printers

Lettering field size: 29 x 8 mm, 5400 labels p. roll

Lettering field size: 40 x 17 mm, 2300 labels p. roll

Insert strips, labeled acc. to customer specifications¹⁾

Lettering field size: 29 x 8 mm, 3 labels p. strip

Lettering field size: 40 x 17 mm, 3 labels p. strip

UniSheet, just 0,5 mm thick
48-section, lettering field size: 29 x 8 mm
16-section, lettering field size: 40 x 17 mm

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK	1005208	100
KMK 2	1005266	100

Accessories

ESL 29X 8	0808257	10
ESL 29X 8 CUS	0824401	1
EMT (29X8)R	0817277	1
EMT (29X8)R CUS	0824383	1
US-EMP (29X8)	0829436	10





For insert labels measuring 40 x 17 mm

Technical data

Polyethylene
-40 ... 80
Silicone and halogen-free

Ordering data

Type	Order No.	Pcs. / Pkt.
KMK 3	1005211	50
KMK 4	1005305	50

Accessories

ESL 40X17	0808095	10
ESL 40X17 CUS	0824403	1
EMT (40X17)R	0817293	1
EMT (40X17)R CUS	0824385	1
US-EMP (40X17)	0829437	10



Integrated management system

The aim of the Phoenix Contact integrated management system is to coordinate all requirements relating to products, processes, and 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 safety in the workplace into the Phoenix Contact management system is monitored for conformance each year by internationally recognized independent bodies. Certification in accordance with international standards ISO 9001, ISO 14001, and BS OHSAS 18001 is the result of our corporate philosophy of meeting the needs of our customers, employees, and the environment to the best of our abilities. It serves as the basis for innovative products with the familiar high Phoenix quality standard, actively practiced environmental protection, and responsibility in the field of occupational health and safety. Of course, we integrate all further requirements of standards, international approvals or special customer requirements into company processes.

This system provides a building block for the success of the Phoenix Contact Group and its products and services.

CE marking

The CE mark was introduced as an important instrument for the free movement of goods and services within the single European market. By attaching the mark to a product, the manufacturer confirms that it conforms to all applicable European Union (EU) directives. EC directives describe product properties with regard to device safety and avoiding danger. They are legally binding regulations of the European Union (EU). In other words, compliance with the

requirements is a **statutory condition for marketing the product within the EU.**

Where applicable, the products that our company currently manufactures fall within the scope of the following directives:

- 2006/95/EC
Electrical equipment designed 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
Equipment and protective systems intended for use in potentially explosive areas (ATEX Directive 100a)
- 1999/5/EC
Radio and telecommunications terminal equipment (R&TTE)

The standards upon which the specified directives are based have been part of our standard of development for a long time. This guarantees conformance 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. Current declarations for each product can also be found in our Download Center.

The EMC Directive occupies a special place among the European directives listed. It is a mandatory guideline which defines electromagnetic compatibility as a fundamental device property. European law, therefore, acknowledges the significance of the electromagnetic compatibility of devices and systems as an important condition for the error-free operation of machinery and systems. As one of the leading international companies in surge protection, Phoenix Contact has broad expertise in EMC. This expertise and the experience gained over years of developing and applying industrial interface and communication technology have resulted in our products having an extremely high standard of quality with regard to electromagnetic compatibility. Our associate company, Phoenix Testlab, was founded to share this expertise with other companies. Phoenix Testlab GmbH is an independent accredited service provider offering EMC testing in compliance with 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. Furthermore, Phoenix Testlab is a "Notified

Body" in accordance with EMC Directive 2004/108/EC and according to R&TTE Directive 1999/5/EC for radio and telecommunications terminal equipment. As a "Telecom Certification Body" (TCB), Phoenix Testlab may also approve these products for 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 line with this process, the current version of all standards that are relevant to our products is documented on the Internet at www.phoenixcontact.com.

Online product information service on the web

Phoenix Contact's product range is growing constantly.

Due to our commitment to product monitoring, all products are subject to improvement.

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 www.phoenixcontact.com. Here you will always find the latest overview of products, solutions, and services from Phoenix Contact. This includes technical documents, such as data sheets and user manuals, the latest driver and demo software, plus a means of contacting the appropriate contact person directly.

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 permissible as a result of heat aging stabilization. Polyamide absorbs moisture from its surroundings (2.8% on average). However, this moisture is not crystallization water in the plastic itself, but chemically bonded H₂O groups in the molecular structure. This makes the plastic flexible and resistant to breakage, even at temperatures as low as -60°C. PA belongs to inflammability class V2 to V0 according to UL 94. 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 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 is silicone and halogen-free. It absorbs little moisture and is suitable for use at temperatures between -40°C and +125°C.

Polycarbonate/Acrylonitrile butadiene styrene (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 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 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.

Polyolefin

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.

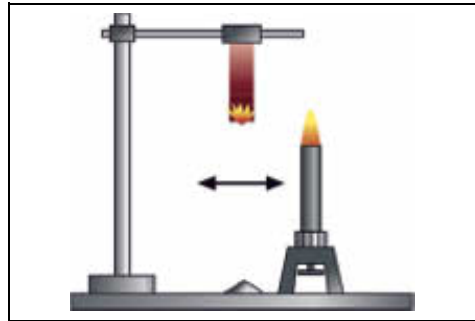
Halogen-free

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 in accordance with 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.

Material tests

Inflammability test according to UL 94 V0/1/2



Test setup in acc. with UL 94 V0/1/2

The inflammability tests for plastics have been defined by the Underwriters Laboratory (USA) in regulation UL 94. This regulation applies to all areas of application, including electrical engineering in particular. 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. Afterwards, the afterburning 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	≤ 10 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
Inflammation of the absorbent cotton under the sample	No	No	Yes	-

Halogen-free flame protection according to DIN EN ISO 1043-4

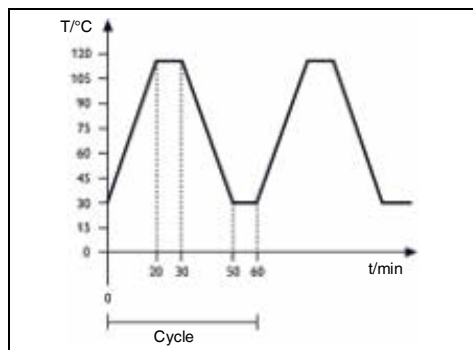


Halogens are the chemical elements astatine, fluorine, chlorine, bromine, and iodine. One characteristic of the halogen compounds of bromine and chlorine relates to the reduction in the degree of inflammability when used in plastics. In the event of fire, poisonous corrosive gases are formed. Secondary 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 halogen or other additives. Polyamide, polycarbonate,

polycarbonate/acrylonitrile butadiene styrene, acrylonitrile butadiene styrene, and polyolefines feature halogen-free flame protection systems.

Environmental tests

Aging test according to IEC 60947-7-1/-2



Temperature in relation to time

Modular 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 labeling of these terminal blocks also meets these requirements, Phoenix Contact uses labeling 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 comprises a total of 192 cycles.

Without exception, Phoenix Contact marking materials are tested in accordance with IEC 60947-7-1/-2. All plastics used also have sufficient safety reserves.

Oil and chemical resistance in accordance with 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/labeling materials which have been tested in accordance with 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
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

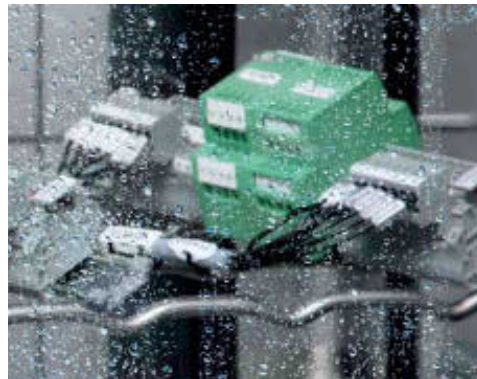
Resistance to UV light in accordance with DIN EN ISO 4892-2 and DIN EN ISO 60068-2-5



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 according to DIN 50018



Extreme ambient influences impose demanding requirements on components and their labeling and marking.

The following test method, based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulphur dioxide.

Two liters of distilled water and one liter of SO_2 gas are introduced into a climate cabinet. During the test and at a test temperature of $40^\circ C$, an acidic atmosphere is formed, which affects the material surfaces of the test objects. After eight hours of testing, the test objects dry for 16 hours with the door of the cabinet 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 media.

Salt spray according to IEC 60068-2-11/-52



Particularly in shipbuilding, technical components have to be marked and must remain permanently legible 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 in a corrosive atmosphere is tested using salt spray. 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 $+35^\circ C$ for a period of 96 hours. A microscopic inspection is performed after the test.

Phoenix Contact marking materials meet these stringent requirements and can be used even in extreme climatic conditions.

Resistance to solvents in accordance with EN 60464-2:2001

Markings and labels must be resistant to a variety of solvent vapors. Based on the above standard, imprints and labels are stored in acetone, n-hexane, and ethanol for a period of 10 days and must be legible at the end of this time. Phoenix Contact marking materials are solvent-resistant and

meet stringent requirements.

Mechanical tests

Scratch resistance in accordance with DIN EN ISO 1518



Labels and imprints must also be resistant to external, point, and/or linear mechanical loads.

For this reason, Phoenix Contact tests all labels 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 meet these high mechanical requirements.

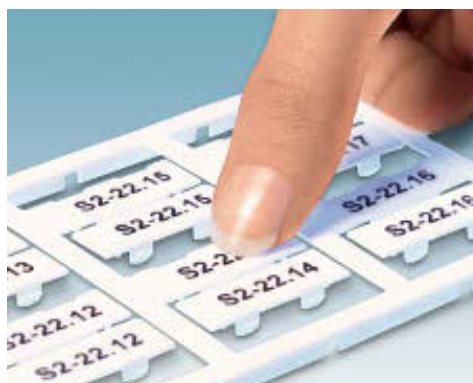
Resistance to abrasion according to KIMW 003, part 1 in-house standard of the Lüdenschied Plastics Institute

Labels and imprints must be resistant to externally applied surface loads. The aforementioned in-house standard prescribes grouping labels and imprints in load classes. Labels and imprints are subjected to various numbers of strokes (1000; 10,000; 30,000) using a felt disk (hardness H1 according to DIN 61200) with a specific pressure force (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 labels meet the requirements of the highest load class K9 (30,000 strokes with 4 N pressure force).

Abrasion and wipe resistance according to DIN EN 61010-1



Labels and imprints must be resistant to standard industrial cleaning agents. The aforementioned standard prescribes the use of a soft cloth with water, isopropyl alcohol, petroleum ether, and n-hexane to clean labels and imprints. They must remain clearly legible after cleaning.

Phoenix Contact marking materials meet stringent requirements with regard to 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 secure seating 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 in each of the three spatial axes (x, y, z). In the test, the object runs through a frequency range of 3 Hz to 150 Hz at a speed of one octave per minute. The true 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.

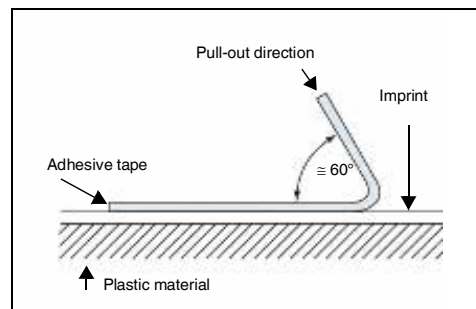
Vibration test according to DIN EN 61373 – Broadband noise (intensity acc. to DIN EN 50155)

In many applications and especially in traffic engineering, labeling 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 true r.m.s. value of the acceleration is up to 42.5 m/s². 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 meet these stringent vibration requirements.

Grid test in accordance with DIN EN ISO 2409



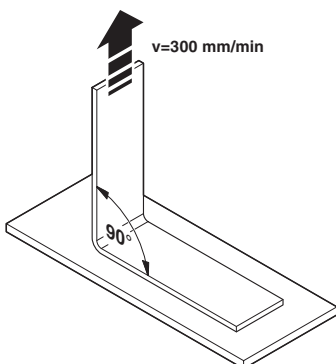
Test setup

A Sellotape test is conducted based on DIN EN ISO 2409. A transparent strip of self-adhesive tape with an adhesive strength of 10 ±1 N is attached to the imprint or label 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 imprint on the adhesive tape after the test.

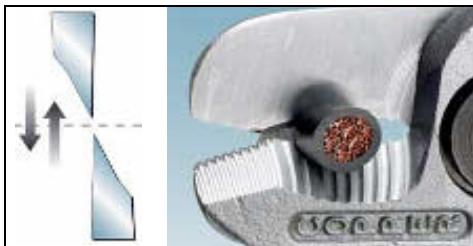
Phoenix Contact marking materials meet the requirements of this standard. They are tough and resistant to peeling.

Adhesive strength test in accordance with FINAT test method No. 2

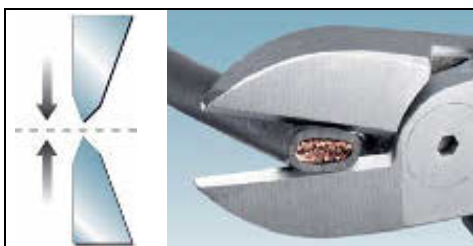


The purpose of this test is to compare the adhesive strength of labels on various base materials. To this end, a strip of labels (25 x 175 mm) is applied to the respective base material with a specified force. After a defined storage period, the strip is removed from the base material at an angle of 90° and a speed of 300 mm/min. The adhesive strength is specified in N/25 mm. The test thus enables the most suitable label for the application to be selected.

Cutting



Shear cutting



Bite cutting

Shear cutting

Ratchet-driven cable cutters are a quick and reliable solution for cutting conductors and cables in the upper cross sectional 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.

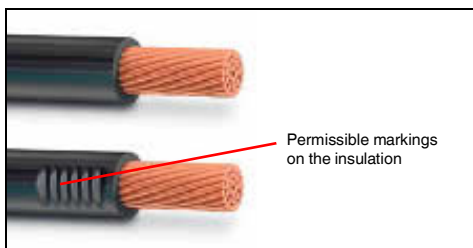
Bite cutting

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

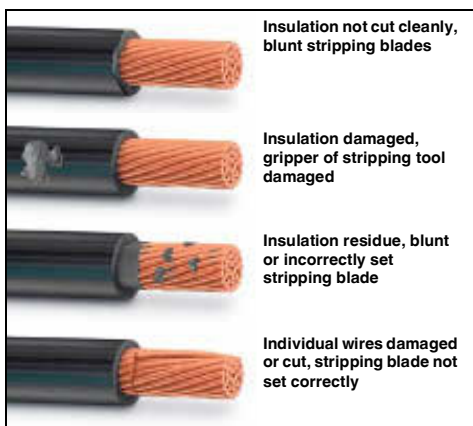
subsequently hardened again inductively to 62 HRC. This makes it possible to sever even extremely hard materials such as piano wire and spring steel with a tensile strength of up to 2300N/mm² without damaging the tool. Bite cutting is suitable only to a limited extent for cutting through cables and lines.

The high-quality CUTFOX cutting tools from Phoenix Contact can be relied upon for long-term stability and permanently consistent results.

Stripping



Cable stripped correctly acc. to DIN IEC 60352



Cable stripped incorrectly acc. to DIN IEC 60352

Stripping describes removing the insulation of conductors up to 16 mm². In the case of larger conductor cross sections and multiple-wire and multi-level conductors and cables, only the outer insulation sheath is removed. The length of the insulation to be removed varies depending on the terminal point and connector. Removing the insulation must not damage either the individual 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 ductile rubber insulations (silicone).

Phoenix Contact WIREFOX automatic stripping pliers can remove insulation quickly and correctly.

Crimping/Pressing/Squeezing



Crimping describes the mechanical joining of contact and conductor. In addition to crimping, two other terms are used depending on the type of deformation. A distinction is made between squeezing (for insulated cable lugs) and pressing (for ferrules and uninsulated cable lugs). Flat 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 processed 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

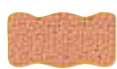
Professional crimping pliers are always equipped with a releasing pressure lock. They unlock as soon as the required crimping pressure is attained, thus ruling out the possibility of too little pressure. This guarantees the user a constant


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 pressing ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application for conductor sizes 10 - 50 mm².


 **B crimp**
For pressing uninsulated flat connectors and slip-on sleeves. Areas of application for conductor sizes 0.1 - 6 mm².


 **Hex crimp**
For pressing uninsulated tube 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 pressing ferrules according to DIN 46228. Areas of application for conductor sizes 0.14 - 10 mm².

 **Indent/Prong crimp**
For pressing uninsulated cable lugs. Areas of application for conductor sizes 0.75 - 10 mm².

 **Trapezoid crimp**
For pressing ferrules according to DIN 46228-1 and DIN 46228-4. Areas of application for conductor sizes 0.25 - 10 mm².

 **Oval crimp**
For pressing insulated cable lugs. Areas of application for conductor sizes 0.1 - 6 mm².

 **Double indent crimp**
For pressing uninsulated cable lugs. Areas of application for conductor sizes 0.75 - 10 mm².

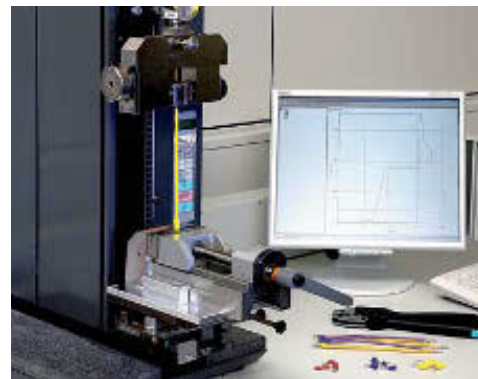
Conductor cross sections/Conductor pull-out forces

Structure and dimensions of connecting cables
Conductor pull-out forces

AWG/kcmil	Metric conductor cross section [mm ²]	Comparable conductor cross section [mm ²]	Crimping sleeves DIN EN 60352-2 (11/2006) [N] ²⁾	Ferrules IEC EN 60999 ¹⁾ (up to 35 mm ²) [N] ³⁾	Ferrules IEC EN 60947-7-1 (35 mm ² and above) [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 sleeves, insulated and uninsulated.

Conductor pull-out test according to DIN EN 60352-2



In practice, crimping points can be affected by tractive 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 tractive force is applied for a period of 60 seconds. The tractive 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 pull-out forces

AWG	Comparable conductor cross section [mm ²]	DIN EN 60352-2 (11/2006) [N] ¹⁾
30	0.05	6
(29)		
28	0.08	11
(27)		
26	0.12	15
(25)	0.14	18
24	0.22	28
(23)	0.25	32
22	0.32	40
(21)		
20	0.5	60
(19)	0.75	85
18	0.82	90
(17)	1	108
16	1.3	135
(15)	1.5	150
14	2.1	200
(13)	2.5	230
12	3.3	275
(11)	4	310
10	6	360
(9)		
8	8.4	370
(7)	10	380

¹⁾ Pull-out values for open and closed crimping sleeves and insulated crimping sleeves.

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 gas-tight connection that remains intact even when exposed to aggressive media.

The test method, which is based on DIN 50018, describes the corrosion test in an alternating condensation climate with an atmosphere that contains sulphur dioxide.

Two liters of distilled water and one liter of SO₂ gas are introduced into a climate cabinet. Acidic compounds < pH 7 which attack metal surfaces form during the course of the test at a test temperature of 40°C. After eight hours of testing, the test objects dry for 16 hours with the door of the cabinet

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 attributable to the effects of corrosion are investigated.

Color codes

Conductors are marked in different colors so that different types can be identified more easily. Cross sections and their corresponding color codes are listed in the table.

Conductor cross section		Color
[mm ²]	AWG	
0.1 - 0.5 0.25 - 0.75	26 - 20 24 - 18	yellow/light green green
0.5 - 1.5 1.5 - 2.5	20 - 16 16 - 14	red blue
4 - 6 10	12 - 10 8	yellow red
16 25	6 4	blue yellow

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

Tightening torque of terminal block screws according to 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 secure connections with conductors to be established using 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.










































DIN rails/Grounding busbars Excerpt from IEC 60947-7-2/EN 60947-7-2/DIN EN 60947-7-2/VDE 0611-3

Phoenix Contact type	Rail profile	Material	Immunity to short-circuiting ≅ E CU conductor [mm ²]*	Short-time current resistance 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 acc. to IEC 60439-1/EN 60439-1/DIN EN 60439-1/VDE 0660-500.

** Grounding busbars made from steel are not permitted for the PEN function.

Overview of approval bodies and safety marks

National approval bodies and certification procedures		Country code	Approval bodies for explosion protection 		Country code	Ship classification bodies		Country code
	IECEE-CB Scheme (in combination with certifying body)	International		FM Approvals	US		Bureau Veritas	FR
CCA	CENELEC Certification Agreement (CCA inspection report) (in combination with certifying body)	EU		KEMA Quality B.V.	NL		Germanischer Lloyd AG	DE
	Canadian Standards Association (CSA)	CA		Physikalisch-Technische Bundesanstalt	DE		Lloyd Register of Shipping	GB
 	Underwriters Laboratories Inc. (UL)	US		Société Nationale de Certification et d'Homologation	LU	ClassNK	Nippon Kaiji Kyokai	JP
 	Underwriters Laboratories Inc. (UL) - UL approval for Canada -	CA		VTT Technical Research Centre of Finland	FI		Det Norske Veritas	NO
 	Underwriters Laboratories Inc. (UL) Combined logo - UL approval for the USA and Canada -	US CA		Nemko AS (Head Office) - Norway	NO		Polski Rejestr Statków	PL
	Elektromontaz	PL		União Certificadora	BR		Russian Maritime Register of Shipping	RU
	INSIEME PER LA QUALITA'E LA SICUREZZA	IT	 	Underwriters Laboratories Inc. (UL)	US		Korean Register of Shipping	KR
	Gosudarstvenne Komitet Standartov (GOST)	RU		FTZU - Fyzikalne technicky zkusebni ustav (CZ)	CZ		American Bureau of Shipping	US
	KEMA Nederland B.V.	NL						
	Österreichischer Verband für Elektrotechnik	AT						
	South African Bureau of Standards	ZA						
 	Eidgenössisches Starkstrominspektorat (ESTI) electrosuisse SEV Verband für Elektro-, Energie- und Informationstechnik	CH						
	Verband Deutscher Elektrotechniker e.V. (VDE) - Approval of drawings - Reports with production monitoring	DE						
	Landesgewerbeanstalt Bayern	DE						
 	Berufsgenossenschaft (BG) GS - Geprüfte Sicherheit	DE						
	TÜV Rheinland/Berlin-Brandenburg	DE						
	TÜV Nord	DE						

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A 6 -10	3202520	304	AI 1,5-12 BK	3201482	305	AI-WM 1,5-8 WH	3240545	147	BMKL 16X 6 YE CUS	0824241	224
A 6 -12	3200328	304	AI 1,5-18 BK	3200056	305	AI-WM 1-8 RD	3240544	147	BMKL 18X 6 WH	5032293	224
A 10 -12	3200331	304	AI 2,5-8 BU	3200522	305	AI-WM 2,5-8 BU	3240572	147	BMKL 18X 6 WH CUS	0824242	224
A 10 -18	3200344	304	AI 2,5-8 BU-1000	3200920	305	AI-XL 1,5-8 BK	3201916	309	BMKL 18X 6,5 OG	5036147	224
A 16 -12	3200425	304	AI 2,5-8 BU-B	3201408	335	AI-XL 1,5-10 BU	3201974	309	BMKL 18X 6,5 OG CUS	0824243	224
A 25 -12	3200357	304	AI 2,5-8 GY	3200069	306	AI-XL 2,5-8 BU	3201929	309	BMKL 18X 8 WH	5032329	224
A 25 -15	3200360	304	AI 2,5-8 GY-B	3201550	335	AI-XL 2,5-12 BU	3201987	309	BMKL 18X 8 WH CUS	0824244	224
A 25 -18	3200373	304	AI 2,5-10 BU	3202533	305	AI-XL 4 -10 GY	3201932	309	BMKL 18X 8 YE	5032170	224
A 25 -20	3200386	304	AI 2,5-12 BU	3200962	305	AI-XL 6 -12 YE	3201945	309	BMKL 18X 8 YE CUS	0824245	224
A 35 -18	3200399	304	AI 2,5-12 GY	3200205	306	AI-XL 10 -12 RD	3201958	309	BMKL 19X11 YE	0800705	224
A 35 -20	3200409	304	AI 2,5-18 BU	3200580	305	AI-XL 16 -12 BU	3201961	309	BMKL 19X11 YE CUS	0824246	224
A/U CM	5021110	351	AI 2,5-18 GY	3200072	306	AI120 -27 BU	3201822	305	BMKL 20X 8 WH	5032280	224
AB-SK	3025341	369	AI 4 -10 GY	3200535	305	AK 4	0404017	356	BMKL 20X 8 WH CUS	0824247	224
AB-SK 65	3026489	369	AI 4 -10 OG	3200085	306	AK 16	0404033	357	BMKL 20X 8 YE	5032138	224
AB-SK 65-D	3026900	371	AI 4 -12 GY	3200959	305	AK 35	0404046	357	BMKL 20X 8 YE CUS	0824248	224
AB-SK 65-D INSULATED	3040889	371	AI 4 -12 OG	3200438	306	AKG 4 BK	0421032	356	BMKL 25X 8 WH	5032332	224
AB-SK TOP	3062090	368	AI 4 -18 GY	3200593	305	AKG 4 BU	0421016	356	BMKL 25X 8 WH CUS	0824249	224
AB-SK TOP INSULATED	3062074	368	AI 4 -18 OG	3200098	306	AKG 4 GNVE	0421029	356	BMKL 25X12 WH	5032374	224
AB-SK-D TOP	3062100	370	AI 6 -12 BK	3201107	307	AKG 16 BK	0423030	357	BMKL 25X12 WH CUS	0824250	224
AB-SK-D TOP INSULATED	3062087	371	AI 6 -12 GN	3200108	306	AKG 16 BU	0423014	357	BMKL 26,8X6,8 WH	0807106	224
AB-SK/E	3026476	374	AI 6 -12 YE	3200548	305	AKG 16 GNVE	0423027	357	BMKL 26,8X6,8 WH CUS	0824251	224
AB-SK/E-NS 35	3213111	374	AI 6 -18 GN	3200111	306	AKG 35 BK	0424039	357	BMKL 26X10 YE	0811516	224
AB-SKS 60	3240223	369	AI 6 -18 YE	3200603	305	AKG 35 BU	0424013	357	BMKL 26X10 YE CUS	0824252	224
AB/NS	1201141	349	AI 0,25-8 BU-B	3240250	335	AKG 35 GNVE	0424026	357	BMKL 27X 8 SR	0803702	224
AB/SKS	3240224	372	AI 0,25-8 YE-B	3240251	335	AP 2 CM	5022889	351	BMKL 27X 8 SR CUS	0824253	224
AB/SS	0404428	354	AI 0,34-8 TQ-B	3240249	335	AP 2-TU	5022630	351	BMKL 27X12,5 SR	0803676	224
AB/SS-M	3025888	372	AI 0,5-10 WH-GB	3203150	308	AP 3 CM	5022876	351	BMKL 27X12,5 SR CUS	0824254	224
AB2/SS	0404431	354	AI 0,5-8 WH-B 3000	3240663	311	AP 3-TNS 35	5022672	351	BMKL 27X18 SR	0803689	224
AB3/SS	0800086	354	AI 0,75-10 GY-GB	3203163	308	AP 3-TU	5022656	351	BMKL 27X18 SR CUS	0824255	224
ABN2/SS	0404460	354	AI 0,75-8 GY-B 3000	3240664	311	AP-ES	5022685	351	BMKL 27X27 SR	0803692	224
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C-RC 120/M10 DIN	3240125	315	C-SCF 6/6,3X0,8	3240160	320	CD 30X40	3240278	379	CD-HF 30X40	3240344	377
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C-RC 120/M8 DIN	3240124	315	C-SCFFI 1,5/2,8X0,8	3240535	322	CD 30X40 WH	3240620	379	CD-HF 30X80	3240346	377
C-RC 150/M10 DIN	3240128	315	C-SCFFI 1,5/4,8X0,5	3240536	322	CD 30X60	3240280	379	CD-HF 40X100	3240351	377
C-RC 150/M12 DIN	3240129	315	C-SCFFI 1,5/4,8X0,8	3240537	322	CD 30X60 BU	3240306	379	CD-HF 40X40	3240348	377
C-RC 150/M16 DIN	3240130	315	C-SCFFI 1,5/6,3X0,8	3240538	322	CD 30X60 WH	3240621	379	CD-HF 40X60	3240349	377
C-RC 16/M10 DIN	3240097	314	C-SCFFI 2,5/4,8X0,5	3240539	322	CD 30X80	3240282	379	CD-HF 40X80	3240350	377
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C-RC 2,5/M4 DIN	3240078	314	C-SCFI 2,5/6,3X0,8	3240055	321	CD 40X60 WH	3240625	379	CD-HF COVER 120	3240368	377
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C-RC 240/M12 DIN	3240135	315	C-SCM 2,5/6,3X0,8	3240162	320	CD 60X100 BU	3240316	379	CD-HF COVER 80	3240373	377
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CF 500/COV RC	1212251	331	CRIMPFOX-C120 RC 70/M-DIE	1212331	275	CRIMPFOX-SC 6L	1212052	276	EML (100X73)R CUS	0824282	214	
CF 500/DIE AI 6	1212238	331	CRIMPFOX-C120 RCI 10/DIE	1212327	275	CRIMPFOX-SR 6-1	1212467	279	EML (100X73)R SR	0817112	213	
CF 500/DIE AI 25	1212239	331	CRIMPFOX-C120 RCI 16/DIE	1212328	275	CRIMPFOX-SR 6-2	1212468	279	EML (100X73)R SR CUS	0824283	215	
CF 500/DIE AI 50	1212261	331	CRIMPFOX-C120 RCI 25/DIE	1212329	275	CRIMPFOX-SR 6-3	1212469	279	EML (100X73)R YE	0817138	213	
CF 500/DIE AI-TWIN 10	1212262	331	CRIMPFOX-C120 RCI 35/DIE	1212330	275	CRIMPFOX-TC 10	1212114	277	EML (100X73)R YE CUS	0824284	215	
CF 500/DIE FBS	1212461	331	CRIMPFOX-C120 RCT 120-1/DIE	1212323	275	CRIMPFOX-TC 10/DIE	1212296	277	EML (100X90)R	0817154	212	
CF 500/DIE RC 10	1212244	331	CRIMPFOX-C120 RCT 35-1/DIE	1212320	275	CRIMPFOX-TC 4	1212113	277	EML (100X90)R CUS	0824285	214	
CF 500/DIE RC 16	1212257	331	CRIMPFOX-C120 RCT 50-1/DIE	1212321	275	CRIMPFOX-TC 4/DIE	1212295	277	EML (100X90)R SR	0817141	213	
CF 500/DIE RCI 1,5	1212263	331	CRIMPFOX-C120 RCT 70-1/DIE	1212319	275	CRIMPFOX-TC MP	1212510	277	EML (100X90)R SR CUS	0824286	215	
CF 500/DIE RCI 6	1212240	331	CRIMPFOX-C120 RCT 95-1/DIE	1212322	275	CRIMPFOX/ SPR-1	1212069	269	EML (100X90)R	0817578	213	
CF 500/DIE SC 1,5	1212241	331	CRIMPFOX-C50	1212340	275	CRIMPFOX/ SPR-3	1212036	268	EML (101.6X25,4)R CUS	0824285	214	
CF 500/DIE SC 6	1212242	331	CRIMPFOX-C50 R25-35/DIE	1212349	275	CRIMPFOX/ SPR-2	1212047	270	EML (101.6X25,4)R SR CUS	0817141	213	
CF 500/DIE TC 4	1212237	331	CRIMPFOX-C50 R35-50/DIE	1212350	275	CRIMPSET 6	1202072	301	EML (101.6X25,4)R SR CUS	0824286	215	
CF 500/DIE TC 10	1212260	331	CRIMPFOX-C50 R50-70/DIE	1212351	275	CRIMPSET 6/25 LEER	1204041	301	EML (10X4)R CUS	0824289	214	
CF 500/LOC SCF 2,8/1,5	1212249	331	CRIMPFOX-C50 RC 25/F-DIE	1212344	275	CRIMPSET 25	1202580	301	EML (10X7)R CUS	0816663	212	
CF 500/LOC SCF 4,8/2,5	1212248	331	CRIMPFOX-C50 RC 35/F-DIE	1212345	275	CUTFOX 10	1206829	328	EML (10X7)R CUS	0824290	214	
CF 500/LOC SCF 6,3/6	1212247	331	CRIMPFOX-C50 RC 35/M-DIE	1212343	275	CUTFOX 10 120V	1206832	328	EML (10X4)R	0815583	212	
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CLIP-PROJECT PROFESSIONAL	5146053	25	CRIMPFOX-CX 10,54/DIE	1212097	278	CUTFOX 16 VDE	1212126	251	EML (15X9)R	0815677	212	
CLIPFIX 15	3022263	344	CRIMPFOX-CX 10,90	1212291	278	CUTFOX 18	1212129	248	EML (15X9)R CUS	0824294	214	
CLIPFIX 35	3022218	344	CRIMPFOX-CX 10,90/DIE	1212098	278	CUTFOX 25	1212130	249	EML (15X9)R SR	0816032	213	
CLIPFIX 35-5	3022276	344	CRIMPFOX-CX 10,90/DIE	1212292	278	CUTFOX 25 VDE	1212127	251	EML (15X9)R SR CUS	0824295	215	
CMS-DISPOSABLE-PEN 0,25 EK	5146601	41	CRIMPFOX-CX 4,52/DIE	1212034	278	CUTFOX 35	1212131	249	EML (15X9)R YE	0816045	213	
CMS-DISPOSABLE-PEN 0,35 EK	5146602	41	CRIMPFOX-CX 4,52/DIE	1212284	278	CUTFOX 45	1212132	248	EML (15X9)R YE CUS	0824296	215	
CMS-INK-EK-C 5	5146600	41	CRIMPFOX-CX 6,48	1212095	278	CUTFOX 50 STEEL	1212526	248	EML (16,5X5)R	0816702	212	
CMS-P1-M/BN-ZB	5144725	40	CRIMPFOX-CX 6,48/DIE	1212286	278	CUTFOX 52	1212133	248	EML (16,5X5)R CUS	0824297	214	
CMS-P1-M/GPE	5144754	40	CRIMPFOX-CX 9,14/DIE	1212096	278	CUTFOX 62	1212134	249	EML (16,5X5)R YE	0816728	213	
CMS-P1-M/GPE ENGRAVING	5145711	40	CRIMPFOX-DSUB 5	1212111	278	CUTFOX FB	1205985	250	EML (16,5X5)R YE CUS	0824298	215	
CMS-P1-M/LBHZ	5144738	40	CRIMPFOX-DSUB 5/DIE	1212287	278	CUTFOX-CD	1212474	255	EML (16,5X5)RL	0816113	212	
CMS-P1-M/PAB	5144741	40	CRIMPFOX-FO 5,41/DIE	1212099	278	CUTFOX-FBS	1212124	250	EML (16,5X5)RL YE	0816126	213	
CMS-P1-M/SS-ZB	5144712	40	CRIMPFOX-FO 5,41/DIE	1212294	278	CUTFOX-LB VDE	1212527	251	EML (16X7)R	0818001	212	
CMS-P1-M/ZB	5144699	40	CRIMPFOX-M	1212072	280	CUTFOX-S VDE	1212207	251	EML (16X7)R CUS	0824301	214	
CMS-P1-M/ZBF	5144709	40	CRIMPFOX-M 10/DIE	1212080	280	CUTFOX-SP VDE	1212206	251	EML (16X7)R YE	0816731	213	
CMS-P1-M/ZBFM	5144686	40	CRIMPFOX-M 25/DIE	1212081	280				EML (16X7)R YE CUS	0824302	215	
CMS-P1-M/ZBFM-PAD	5144848	40	CRIMPFOX-M 50/DIE	1212082	280				EML (17,5X8)R	0816744	212	
CMS-P1-M/ZBZM	5144660	40	CRIMPFOX-M CX-1/DIE	1212087	280				EML (17,5X8)R CUS	0824303	214	
CMS-P1-PAD	5144819	40	CRIMPFOX-M CX-2/DIE	1212088	280				EML (17,5X8)R YE	0816757	213	
CMS-P1-PAD/SPARE	5144893	40	CRIMPFOX-M CX-3/DIE	1212089	280				EML (17,5X8)R YE CUS	0824304	215	
CMS-P1-PENDEPOT	5144835	38	CRIMPFOX-M HS-1/DIE	1212282	280				EML (17,5X8)RL YE	0816139	213	
CMS-P1-PLOTTER	5144615	38	CRIMPFOX-M RC 10/DIE	1212077	280				EML (19X6)R	0816760	212	
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CMS-P1-PREPATES	5145135	38	CRIMPFOX-M RCI 6/DIE	1212073	280				EML (20X8)R	0816786	212	
CMS-P1-WMU-ADAPTER	5144822	40	CRIMPFOX-M RJ11/DIE	1212091	280				EML (20X8)R CUS	0824309	214	
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SF-BIT-PH 3-50	1212581	288	SK 7,5/3,8:FORTL.ZAHLEN	0804455	89	TESTFOX CC-1	1212211	295	TMT 6 R RD CUS	0824492	83
SF-BIT-PH 3-70	1212584	288	SK 7,5/5:FORTL.ZAHLEN	0804468	89	TESTFOX M	1212208	296	TMT 6 R YE	0816508	83
SF-BIT-PHSL 1-70	1212479	289	SK 7,62/3,8:FORTL.ZAHLEN	0804549	90	TESTFOX M-1	1212209	297	TMT 6 R YE CUS	0824493	83
SF-BIT-PHSL 2-70	1212601	289	SK 7,62/5:FORTL.ZAHLEN	0804552	90	THERMOMARK CARD	5146464	32	TMT 8 R	0816553	83
SF-BIT-PZ 1-50	1212591	288	SK 8	3025163	366	THERMOMARK CARD SET	5147200	35	TMT 8 R BU	0816511	83
SF-BIT-PZ 1-70	1212594	288	SK 8-D	3026861	366	THERMOMARK CARD SET EN	5147201	35	TMT 8 R BU CUS	0824495	83
SF-BIT-PZ 2-50	1212592	288	SK 10,0 WH:REEL	0812188	91	THERMOMARK CARD-UCT-MAG1	5146480	32	TMT 8 R CUS	0824494	83
SF-BIT-PZ 2-70	1212595	288	SK 14	3025176	366	THERMOMARK CARD-UCT-MAG2	5146563	32	TMT 8 R GN	0816524	83
SF-BIT-PZ 3-50	1212593	288	SK 14-D	3026874	366	THERMOMARK CARD-UCT-MAG3	5146613	32	TMT 8 R GN CUS	0824496	83
SF-BIT-PZ 3-70	1212596	288	SK 2,8 REEL P2,54 WH CUS	0825120	86	THERMOMARK CARD-UCT-MAG4	5146614	32	TMT 8 R OG	0816537	83
SF-BIT-PZSL 1-70	1212603	289	SK 2,8 REEL P3,5 WH CUS	0825121	87	THERMOMARK CARD-UCT-MAG5	5146615	32	TMT 8 R OG CUS	0824497	83
SF-BIT-PZSL 2-70	1212604	289	SK 2,8 REEL P3,81 WH CUS	0825122	87	THERMOMARK CARD-UCT-MAG6	5146616	32	TMT 8 R RD	0816540	83
SF-BIT-SL 0,5X3,0-50	1212566	288	SK 2,8 REEL P5,08 WH CUS	0825123	87	THERMOMARK CARD-US-MAG1	5146451	32	TMT 8 R RD CUS	0824498	83
SF-BIT-SL 0,5X3,0-70	1212567	288	SK 20	3025189	366	THERMOMARK ROLL	5146477	33	TMT 8 R YE	0816566	83
SF-BIT-SL 0,6X3,5-50	1212568	288	SK 20-D	3026887	366	THERMOMARK ROLL SET	5147300	35	TMT 8 R YE CUS	0824499	83
SF-BIT-SL 0,6X3,5-70	1212569	288	SK 28	3026997	366	THERMOMARK ROLL SET EN	5147301	35	TMT 10 R	0816210	84
SF-BIT-SL 0,8X4,0-50	1212571	288	SK 28-D	3027006	366	THERMOMARK ROLL-CUTTER	5146422	33	TMT 10 R CUS	0824500	84
SF-BIT-SL 0,8X4,0-70	1212572	288	SK 3,8 REEL P5 WH CUS	0825124	88	THERMOMARK ROLL-CUTTER/P	5146435	33	TMT 100 R	0816605	84
SF-BIT-SL 1,0X5,5-50	1212574	288	SK 3,8 REEL P5,08 WH CUS	0825125	88	THERMOMARK ROLL-ERH	5146448	33	TMT 100 R BU	0816223	84
SF-BIT-SL 1,0X5,5-70	1212575	288	SK 3,8 REEL P6,2 WH CUS	0825126	89	THERMOMARK W2	5146147	37	TMT 100 R BU CUS	0824502	84
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UC-TMF 8 YE	0818632	55	UC-WMC 3,1 (23X4) BU	0818797	137	UC-WMC 5,6 (30X8) OG	0825399	139	UC-WMCO 2,1 (21X3) BU CUS	0829055	143
UC-TMF 8 YE CUS	0824660	55	UC-WMC 3,1 (23X4) OG	0818771	137	UC-WMC 5,6 (30X8) OG CUS	0827015	139	UC-WMCO 2,1 (21X3) CUS	0829053	143
UC-TMF 10	0818124	55	UC-WMC 3,1 (23X4) RD	0818807	137	UC-WMC 5,6 (30X8) RD	0825401	139	UC-WMCO 2,1 (21X3) GN	0827551	143
UC-TMF 10 BU	0818690	55	UC-WMC 3,1 (23X4) VT	0825371	137	UC-WMC 5,6 (30X8) RD CUS	0827016	139	UC-WMCO 2,1 (21X3) GN CUS	0829056	143
UC-TMF 10 BU CUS	0824663	55	UC-WMC 3,1 (23X4) VT CUS	0826775	137	UC-WMC 5,6 (30X8) VT	0825402	139	UC-WMCO 2,1 (21X3) OG	0827553	143
UC-TMF 10 CUS	0824662	55	UC-WMC 3,1 (23X4) YE	0818784	137	UC-WMC 5,6 (30X8) VT CUS	0827017	139	UC-WMCO 2,1 (21X3) OG CUS	0829058	143
UC-TMF 10 GN	0818713	55	UC-WMC 3,1 (30X4)	0819631	137	UC-WMC 5,6 (30X8) YE	0825400	139	UC-WMCO 2,1 (21X3) RD	0827552	143
UC-TMF 10 GN CUS	0824664	55	UC-WMC 3,1 (30X4) BU	0820756	137	UC-WMC 5,6 (30X8) YE CUS	0827018	139	UC-WMCO 2,1 (21X3) RD CUS	0829057	143
UC-TMF 10 OG	0818674	55	UC-WMC 3,1 (30X4) BU CUS	0824720	137	UC-WMC 7,5 (23X 8) RD CUS	0824764	140	UC-WMCO 2,1 (21X3) VT	0827554	143
UC-TMF 10 OG CUS	0824665	55	UC-WMC 3,1 (30X4) CUS	0824716	137	UC-WMC 7,5 (23X8)	0818179	140	UC-WMCO 2,1 (21X3) VT CUS	0829059	143
UC-TMF 10 RD	0818700	55	UC-WMC 3,1 (30X4) OG	0823963	137	UC-WMC 7,5 (23X8) BU	0818946	140	UC-WMCO 2,1 (21X3) YE	0827549	143
UC-TMF 10 RD CUS	0824666	55	UC-WMC 3,1 (30X4) OG CUS	0824722	137	UC-WMC 7,5 (23X8) BU CUS	0824768	140	UC-WMCO 2,1 (21X3) YE CUS	0829054	143
UC-TMF 10 VT	0815981	55	UC-WMC 3,1 (30X4) RD	0820769	137	UC-WMC 7,5 (23X8) CUS	0824767	140	UC-WMCO 2,1 TOOL	0827803	142
UC-TMF 10 VT CUS	0824667	55	UC-WMC 3,1 (30X4) RD CUS	0824723	137	UC-WMC 7,5 (23X8) GN	0818959	140	UC-WMCO 2,9 (12X3,5)	0827148	144
UC-TMF 10 YE	0818687	55	UC-WMC 3,1 (30X4) VT	0825372	137	UC-WMC 7,5 (23X8) GN CUS	0824769	140	UC-WMCO 2,9 (12X3,5) BU	0827562	144
UC-TMF 10 YE CUS	0824668	55	UC-WMC 3,1 (30X4) VT CUS	0826777	137	UC-WMC 7,5 (23X8) OG	0818920	140	UC-WMCO 2,9 (12X3,5) BU CUS	0829062	144
UC-TMF 12	0819233	56	UC-WMC 3,1 (30X4) YE	0819644	137	UC-WMC 7,5 (23X8) OG CUS	0824770	140	UC-WMCO 2,9 (12X3,5) CUS	0829060	144
UC-TMF 12 BU	0817853	56	UC-WMC 3,1 (30X4) YE CUS	0824717	137	UC-WMC 7,5 (23X8) RD	0819039	140	UC-WMCO 2,9 (12X3,5) GN	0827563	144
UC-TMF 12 BU CUS	0824671	56	UC-WMC 4,4 (15X 5,5)	0818182	138	UC-WMC 7,5 (23X8) VT	0825376	140	UC-WMCO 2,9 (12X3,5) GN CUS	0829063	144
UC-TMF 12 CUS	0824670	56	UC-WMC 4,4 (15X 5,5) BU	0818849	138	UC-WMC 7,5 (23X8) VT CUS	0826785	140	UC-WMCO 2,9 (12X3,5) OG	0827565	144
UC-TMF 12 GN	0817837	56	UC-WMC 4,4 (15X 5,5) BU CUS	0824729	138	UC-WMC 7,5 (23X8) YE	0818933	140	UC-WMCO 2,9 (12X3,5) OG CUS	0829065	144
UC-TMF 12 GN CUS	0824672	56	UC-WMC 4,4 (15X 5,5) CUS	0824728	138	UC-WMC 7,5 (23X8) YE CUS	0824771	140	UC-WMCO 2,9 (12X3,5) RD	0827564	144
UC-TMF 12 OG	0817866	56	UC-WMC 4,4 (15X 5,5) GN	0818865	138	UC-WMC 7,5 (30X 8) CUS	0824776	141	UC-WMCO 2,9 (12X3,5) RD CUS	0829064	144
UC-TMF 12 OG CUS	0824673	56	UC-WMC 4,4 (15X 5,5) GN CUS	0824730	138	UC-WMC 7,5 (30X 8) YE CUS	0824777	141	UC-WMCO 2,9 (12X3,5) VT	0827566	144
UC-TMF 12 RD	0817840	56	UC-WMC 4,4 (15X 5,5) OG	0818823	138	UC-WMC 7,5 (30X8)	0819673	141	UC-WMCO 2,9 (12X3,5) VT CUS	0829066	144
UC-TMF 12 RD CUS	0824674	56	UC-WMC 4,4 (15X 5,5) OG CUS	0824731	138	UC-WMC 7,5 (30X8) BU	0820950	141	UC-WMCO 2,9 (12X3,5) YE	0827561	144
UC-TMF 12 VT	0822686	56	UC-WMC 4,4 (15X 5,5) RD	0818852	138	UC-WMC 7,5 (30X8) BU CUS	0824780	141	UC-WMCO 2,9 (12X3,5) YE CUS	0829061	144
UC-TMF 12 VT CUS	0824675	56	UC-WMC 4,4 (15X 5,5) RD CUS	0824732	138	UC-WMC 7,5 (30X8) GN	0823708	141	UC-WMCO 2,9 (21X3,5)	0827162	145
UC-TMF 12 YE	0819246	56	UC-WMC 4,4 (15X 5,5) YE	0818836	138	UC-WMC 7,5 (30X8) GN CUS	0824781	141	UC-WMCO 2,9 (21X3,5) BU	0827574	145
UC-TMF 12 YE CUS	0824676	56	UC-WMC 4,4 (15X 5,5) YE CUS	0824733	138	UC-WMC 7,5 (30X8) OG	0823724	141	UC-WMCO 2,9 (21X3,5) BU CUS	0829069	145
UC-TMF 16	0819262	56	UC-WMC 4,4 (15X5,5) VT	0825373	138	UC-WMC 7,5 (30X8) OG CUS	0824782	141	UC-WMCO 2,9 (21X3,5) CUS	0829067	145
UC-TMF 16 BU	0817905	56	UC-WMC 4,4 (15X5,5) VT CUS	0826779	138	UC-WMC 7,5 (30X8) RD	0820963	141	UC-WMCO 2,9 (21X3,5) GN	0827575	145
UC-TMF 16 BU CUS	0824679	56	UC-WMC 4,4 (23X 5,5) BU CUS	0824741	138	UC-WMC 7,5 (30X8) RD CUS	0824783	141	UC-WMCO 2,9 (21X3,5) GN CUS	0829070	145
UC-TMF 16 CUS	0824678	56	UC-WMC 4,4 (23X 5,5) CUS	0824740	138	UC-WMC 7,5 (30X8) VT	0825377	141	UC-WMCO 2,9 (21X3,5) OG	0827577	145
UC-TMF 16 GN	0817921	56	UC-WMC 4,4 (23X 5,5) GN CUS	0824742	138	UC-WMC 7,5 (30X8) VT CUS	0826787	141	UC-WMCO 2,9 (21X3,5) OG CUS	0829072	145
UC-TMF 16 GN CUS	0824680	56	UC-WMC 4,4 (23X 5,5) OG CUS	0824743	138	UC-WMC 7,5 (30X8) YE	0819686	141	UC-WMCO 2,9 (21X3,5) RD	0827576	145
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UC-TMF 16 OG CUS	0824681	56	UC-WMC 4,4 (23X 5,5) YE CUS	0824745	138	UC-WMCO 1,6 (12X3) BU	0827514	142	UC-WMCO 2,9 (21X3,5) VT	0827578	145
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UC-TMF 16 RD CUS	0824682	56	UC-WMC 4,4 (23X5,5) BU	0818894	138	UC-WMCO 1,6 (12X3) CUS	0829032	142	UC-WMCO 2,9 (21X3,5) YE	0827573	145
UC-TMF 16 VT	0822699	56	UC-WMC 4,4 (23X5,5) GN	0818917	138	UC-WMCO 1,6 (12X3) GN	0827515	142	UC-WMCO 2,9 (21X3,5) YE CUS	0829068	145
UC-TMF 16 VT CUS	0824683	56	UC-WMC 4,4 (23X5,5) OG	0818878	138	UC-WMCO 1,6 (12X3) GN CUS	0829035	142	UC-WMCO 3,6 (12X4,5)	0827176	145
UC-TMF 16 YE	0819259	56	UC-WMC 4,4 (23X5,5) RD	0818904	138	UC-WMCO 1,6 (12X3) OG	0827517	142	UC-WMCO 3,6 (12X4,5) BU	0827586	145
UC-TMF 16 YE CUS	0824684	56	UC-WMC 4,4 (23X5,5) VT	0825374	138	UC-WMCO 1,6 (12X3) OG CUS	0829037	142	UC-WMCO 3,6 (12X4,5) BU CUS	0829076	145
UC-TMN 10	0828554	57	UC-WMC 4,4 (23X5,5) VT CUS	0826781	138	UC-WMCO 1,6 (12X3) RD	0827516	142	UC-WMCO 3,6 (12X4,5) CUS	0829074	145
UC-TMN 10 CUS	0829109	57	UC-WMC 4,4 (23X5,5) YE	0818881	138	UC-WMCO 1,6 (12X3) RD CUS	0829036	142	UC-WMCO 3,6 (12X4,5) GN	0827587	145
UC-TMN 5,2	0822945	57	UC-WMC 4,4 (30X 5,5) CUS	0824752	139	UC-WMCO 1,6 (12X3) VT	0827518	142	UC-WMCO 3,6 (12X4,5) GN CUS	0829077	145
UC-TMN 5,2 CUS	0826857	57	UC-WMC 4,4 (30X 5,5) YE CUS	0824753	139	UC-WMCO 1,6 (12X3) VT CUS	0829038	142	UC-WMCO 3,6 (12X4,5) OG	0827589	145
UC-TMN 7,5	0821823	57	UC-WMC 4,4 (30X5,5)	0819657	139	UC-WMCO 1,6 (12X3) YE	0827513	142	UC-WMCO 3,6 (12X4,5) OG CUS	0829079	145
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UC-WMCO 4,9 (21X5) CUS	0829095	146	UC-WMT (23X4) VT CUS	0826795	150	UC1-TM 5	0821784	98	UC1-TMF 8 RD	0828214	101
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UC-WMCO 4,9 (21X5) OG CUS	0829100	146	UC-WMT (30X 4) YE CUS	0824849	150	UC1-TM 5 GN	0828189	98	UC1U-TM 5	0821302	99
UC-WMCO 4,9 (21X5) RD	0827751	146	UC-WMT (30X4)	0819437	150	UC1-TM 5 GN CUS	0828322	98	UC1U-TM 5 CUS	0824521	99
UC-WMCO 4,9 (21X5) RD CUS	0829099	146	UC-WMT (30X4) BU	0821153	150	UC1-TM 5 OG	0828186	98	UC2-TM 4	0821713	102
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UC-WMT (10X 4) RD CUS	0824790	148	UC-WMT (30X4) VT CUS	0826797	150	UC1-TM 6 CUS	0824509	99	UC2F-TM 4 CUS	0824525	104
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UC-WMT (10X4) GN	0823999	148	UC-WMTB (44X15) BN CUS	0829402	151	UC1-TM 6 OG CUS	0828324	99	UC2F-TM 6 CUS	0824529	105
UC-WMT (10X4) GN CUS	0824795	148	UC-WMTB (44X15) BU	0828381	151	UC1-TM 6 RD	0828190	99	UC2F-TM 8	0822204	105
UC-WMT (10X4) OG	0823986	148	UC-WMTB (44X15) BU CUS	0829403	151	UC1-TM 6 RD CUS	0828323	99	UC2F-TM 8 CUS	0824531	105
UC-WMT (10X4) OG CUS	0824796	148	UC-WMTB (44X15) CUS	0829379	151	UC1-TM 6 YE	0828192	99	UC3-TM 5	0822369	106
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UC-WMT (10X4) VT	0825360	148	UC-WMTB (44X15) GN CUS	0829404	151	UC1-TM 8	0821739	99	UC3-TM 6	0822385	107
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UC-WMT (12X4) BU CUS	0827039	149	UC-WMTB (44X15) SR CUS	0829407	151	UC1-TM 8 GN CUS	0828332	99	UCT-TM 10 BU	0829172	75
UC-WMT (12X4) CUS	0827033	149	UC-WMTB (44X15) VT	0828380	151	UC1-TM 8 OG	0828196	99	UCT-TM 10 BU CUS	0829628	75
UC-WMT (12X4) GN	0823601	149	UC-WMTB (44X15) VT CUS	0829408	151	UC1-TM 8 OG CUS	0828329	99	UCT-TM 10 CUS	0829623	75
UC-WMT (12X4) GN CUS	0827040	149	UC-WMTB (44X15) YE	0828379	151	UC1-TM 8 RD	0828195	99	UCT-TM 10 GN	0829173	75
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UC-WMT (12X4) OG CUS	0827036	149	UC-WMTB (52X30)	5775288	151	UC1-TM 8 YE	0828197	99	UCT-TM 10 OG	0829170	75
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UC-WMT (12X4) RD CUS	0827035	149	UC-WMTB (52X50)	5775289	151	UC1-TMF 4	0821360	100	UCT-TM 10 RD	0829169	75
UC-WMT (12X4) VT	0825378	149	UC-WMTB (52X50) CUS	0829433	151	UC1-TMF 4 BU	0828203	100	UCT-TM 10 RD CUS	0829624	75
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UC-WMT (12X4) YE	0823591	149	UC-WMTBA (24X5) BU	0820552	152	UC1-TMF 4 CUS	0824513	100	UCT-TM 10 VT CUS	0829627	75
UC-WMT (12X4) YE CUS	0827037	149	UC-WMTBA (24X5) BU CUS	0824861	152	UC1-TMF 4 GN	0828204	100	UCT-TM 10 YE	0829143	75
UC-WMT (15X 4) BU CUS	0824813	149	UC-WMTBA (24X5) CUS	0824860	152	UC1-TMF 4 GN CUS	0828337	100	UCT-TM 10 YE CUS	0829626	75
UC-WMT (15X 4) CUS	0824812	149	UC-WMTBA (24X5) GN	0825343	152	UC1-TMF 4 OG	0828201	100	UCT-TM 12	0829144	75
UC-WMT (15X 4) RD CUS	0824814	149	UC-WMTBA (24X5) GN CUS	0826799	152	UC1-TMF 4 OG CUS	0828334	100	UCT-TM 12 BU	0829177	75
UC-WMT (15X 4) YE CUS	0824815	149	UC-WMTBA (24X5) OG	0825342	152	UC1-TMF 4 RD	0828200	100	UCT-TM 12 BU CUS	0829635	75
UC-WMT (15X4)	0819398	149	UC-WMTBA (24X5) OG CUS	0826800	152	UC1-TMF 4 RD CUS	0828333	100	UCT-TM 12 CUS	0829630	75
UC-WMT (15X4) BU	0821030	149	UC-WMTBA (24X5) RD	0820565	152	UC1-TMF 4 YE	0828202	100	UCT-TM 12 GN	0829178	75
UC-WMT (15X4) GN	0824040	149	UC-WMTBA (24X5) RD CUS	0824862	152	UC1-TMF 4 YE CUS	0828335	100	UCT-TM 12 GN CUS	0829636	75
UC-WMT (15X4) GN CUS	0824820	149	UC-WMTBA (24X5) VT	0825344	152	UC1-TMF 5	0821425	101	UCT-TM 12 OG	0829175	75
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US-EMLP (20X9) SR CUS	0830087	206	US-EMP (17X15) YE CUS	0830026	209	US-EMSP (90X60) CUS	0830070	210	US-WMT (23X4) YE	0828956	157
US-EMLP (20X9) SR CUS	0828883	204	US-EMP (20X9)	0828939	208	US-EMSP (90X60) SR	0828932	210	US-WMT (23X4) YE CUS	0829988	157
US-EMLP (20X9) YE CUS	0830086	206	US-EMP (20X9) CUS	0830028	209	US-EMSP (90X60) SR CUS	0830072	210	US-WMT (30X4)	0828770	157
US-EMLP (22X22)	0828796	204	US-EMP (25X6)	0829435	208	US-EMSP (90X60) YE	0828931	210	US-WMT (30X4) BU	0829312	157
US-EMLP (22X22) CUS	0830088	206	US-EMP (25X6) CUS	0830029	209	US-EMSP (90X60) YE CUS	0830071	210	US-WMT (30X4) BU CUS	0829997	157
US-EMLP (22X22) SR	0828886	204	US-EMP (27X12.5)	0828876	208	US-TM 100	0829255	80	US-WMT (30X4) CUS	0829992	157
US-EMLP (22X22) SR CUS	0830090	206	US-EMP (27X12.5) CUS	0830033	209	US-TM 100 CUS	0829948	80	US-WMT (30X4) GN	0829313	157
US-EMLP (22X22) YE	0828885	204	US-EMP (27X12.5) SR	0828847	208	US-TMF 100	0829260	81	US-WMT (30X4) GN CUS	0829998	157
US-EMLP (22X22) YE CUS	0830089	206	US-EMP (27X12.5) SR CUS	0830035	209	US-TMF 100 CUS	0829949	81	US-WMT (30X4) OG	0829309	157
US-EMLP (27X12.5)	0828798	204	US-EMP (27X12.5) YE	0828846	208	US-WML 14 (25X19)	0800473	162	US-WMT (30X4) OG CUS	0829994	157
US-EMLP (27X12.5) CUS	0830094	206	US-EMP (27X12.5) YE CUS	0830034	209	US-WML 36 (25X25)	0800474	162	US-WMT (30X4) RD	0829308	157
US-EMLP (27X12.5) SR	0828892	204	US-EMP (27X15)	0828777	208	US-WML 6 (13X13)	0800472	162	US-WMT (30X4) RD CUS	0829993	157
US-EMLP (27X12.5) SR CUS	0830096	206	US-EMP (27X15) CUS	0830036	209	US-WMT (10X4)	0828765	155	US-WMT (30X4) VT	0829311	157
US-EMLP (27X12.5) YE	0828891	204	US-EMP (27X15) SR	0828849	208	US-WMT (10X4) BU	0829277	155	US-WMT (30X4) VT CUS	0829996	157
US-EMLP (27X12.5) YE CUS	0830095	206	US-EMP (27X15) SR CUS	0830038	209	US-WMT (10X4) BU CUS	0829962	155	US-WMT (30X4) YE	0828957	157
US-EMLP (27X15)	0828799	204	US-EMP (27X15) YE	0828848	208	US-WMT (10X4) CUS	0829957	155	US-WMT (30X4) YE CUS	0829995	157
US-EMLP (27X15) CUS	0830097	206	US-EMP (27X15) YE CUS	0830037	209	US-WMT (10X4) GN	0829278	155	US-WMTB (24X5)	0828771	158
US-EMLP (27X15) SR	0828894	204	US-EMP (27X18)	0828778	208	US-WMT (10X4) GN CUS	0829963	155	US-WMTB (24X5) BU	0829324	158
US-EMLP (27X15) SR CUS	0830099	206	US-EMP (27X18) CUS	0830039	209	US-WMT (10X4) OG	0829274	155	US-WMTB (24X5) BU CUS	0830009	159
US-EMLP (27X15) YE	0828893	204	US-EMP (27X18) SR	0828851	208	US-WMT (10X4) OG CUS	0829959	155	US-WMTB (24X5) CUS	0830004	159
US-EMLP (27X15) YE CUS	0830098	206	US-EMP (27X18) SR CUS	0830041	209	US-WMT (10X4) RD	0829273	155	US-WMTB (24X5) GN	0829325	158
US-EMLP (27X18)	0828800	205	US-EMP (27X18) YE	0828850	208	US-WMT (10X4) RD CUS	0829958	155	US-WMTB (24X5) GN CUS	0830010	159
US-EMLP (27X18) CUS	0830100	207	US-EMP (27X18) YE CUS	0830040	209	US-WMT (10X4) VT	0829276	155	US-WMTB (24X5) OG	0829321	158
US-EMLP (27X18) SR	0828896	205	US-EMP (27X27)	0828779	208	US-WMT (10X4) VT CUS	0829961	155	US-WMTB (24X5) OG CUS	0830006	159
US-EMLP (27X18) SR CUS	0830102	207	US-EMP (27X27) CUS	0830042	209	US-WMT (10X4) YE	0828952	155	US-WMTB (24X5) RD	0829320	158
US-EMLP (27X18) YE	0828895	205	US-EMP (27X27) SR	0828853	208	US-WMT (10X4) YE CUS	0829960	155	US-WMTB (24X5) RD CUS	0830005	159
US-EMLP (27X18) YE CUS	0830101	207	US-EMP (27X27) SR CUS	0830044	209	US-WMT (12X4)	0828766	156	US-WMTB (24X5) VT	0829323	158
US-EMLP (27X27)	0828801	205	US-EMP (27X27) YE	0828852	208	US-WMT (12X4) BU	0829284	156	US-WMTB (24X5) VT CUS	0830008	159
US-EMLP (27X27) CUS	0830103	207	US-EMP (27X27) YE CUS	0830043	209	US-WMT (12X4) BU CUS	0829969	156	US-WMTB (24X5) YE	0828958	158
US-EMLP (27X27) SR	0828898	205	US-EMP (27X8)	0828775	208	US-WMT (12X4) CUS	0829964	156	US-WMTB (24X5) YE CUS	0830007	159
US-EMLP (27X27) SR CUS	0830105	207	US-EMP (27X8) CUS	0830030	209	US-WMT (12X4) GN	0829285	156	US-WMTB (29X8)	0828772	158
US-EMLP (27X27) YE	0828897	205	US-EMP (27X8) SR	0828845	208	US-WMT (12X4) GN CUS	0829970	156	US-WMTB (29X8) BU	0829331	158
US-EMLP (27X27) YE CUS	0830104	207	US-EMP (27X8) SR CUS	0830032	209	US-WMT (12X4) OG	0829281	156	US-WMTB (29X8) BU CUS	0830016	159
US-EMLP (27X8)	0828797	204	US-EMP (27X8) YE	0828844	208	US-WMT (12X4) OG CUS	0829966	156	US-WMTB (29X8) CUS	0830011	159
US-EMLP (27X8) CUS	0830091	206	US-EMP (27X8) YE CUS	0830031	209	US-WMT (12X4) RD	0829280	156	US-WMTB (29X8) GN	0829332	158
US-EMLP (27X8) SR	0828890	204	US-EMP (29X8)	0829436	208	US-WMT (12X4) RD CUS	0829965	156	US-WMTB (29X8) GN CUS	0830017	159
US-EMLP (27X8) SR CUS	0830093	206	US-EMP (29X8) CUS	0830045	209	US-WMT (12X4) VT	0829283	156	US-WMTB (29X8) OG	0829328	158
US-EMLP (27X8) YE	0828889	204	US-EMP (29X8) YE	0829440	208	US-WMT (12X4) VT CUS	0829968	156	US-WMTB (29X8) OG CUS	0830013	159
US-EMLP (27X8) YE CUS	0830092	206	US-EMP (29X8) YE CUS	0830046	209	US-WMT (12X4) YE	0828953	156	US-WMTB (29X8) RD	0829327	158
US-EMLP (35X9)	0828802	205	US-EMP (40X17)	0829437	208	US-WMT (12X4) YE CUS	0829967	156	US-WMTB (29X8) RD CUS	0830012	159
US-EMLP (35X9) CUS	0830106	207	US-EMP (40X17) CUS	0830047	209	US-WMT (15X4)	0828767	156	US-WMTB (29X8) VT	0829330	158
US-EMLP (35X9) SR	0829430	205	US-EMP (44X7)	0829438	208	US-WMT (15X4) BU	0829291	156	US-WMTB (29X8) VT CUS	0830015	159
US-EMLP (35X9) SR CUS	0830108	207	US-EMP (44X7) CUS	0830048	209	US-WMT (15X4) BU CUS	0829976	156	US-WMTB (29X8) YE	0828959	158
US-EMLP (35X9) YE	0828899	205	US-EMP (49X15)	0828780	208	US-WMT (15X4) CUS	0829971	156	US-WMTB (29X8) YE CUS	0830014	159
US-EMLP (35X9) YE CUS	0830107	207	US-EMP (49X15) CUS	0830049	209	US-WMT (15X4) GN	0829292	156	US-WMTB (44X15)	0828773	158
US-EMLP (49X15)	0828803	205	US-EMP (49X15) SR	0828855	208	US-WMT (15X4) GN CUS	0829977	156	US-WMTB (44X15) BU	0829338	158
US-EMLP (49X15) CUS	0830109	207	US-EMP (49X15) SR CUS	0830051	209	US-WMT (15X4) OG	0829288	156	US-WMTB (44X15) BU CUS	0830023	159
US-EMLP (49X15) SR	0828902	205	US-EMP (49X15) YE	0828854	208	US-WMT (15X4) OG CUS	0829973	156	US-WMTB (44X15) CUS	0830018	159
US-EMLP (49X15) SR CUS	0830111	207	US-EMP (49X15) YE CUS	0830050	209	US-WMT (15X4) RD	0829287	156	US-WMTB (44X15) GN	0829339	158
US-EMLP (49X15) YE	0828804	205	US-EMP (60X15)	0828781	208	US-WMT (15X4) RD CUS	0829972	156	US-WMTB (44X15) GN CUS	0830024	159
US-EMLP (49X15) YE CUS	0830110	207	US-EMP (60X15) CUS	0830052	209	US-WMT (15X4) VT	0829290	156	US-WMTB (44X15) OG	0829335	158
US-EMLP (60X15)	0828804	205	US-EMP (60X15) SR	0828857	208	US-WMT (15X4) VT CUS	0829975	156	US-WMTB (44X15) OG CUS	0830020	159
US-EMLP (60X15) CUS	0830112	207	US-EMP (60X15) SR CUS	0830054	209	US-WMT (15X4) YE	0828954	156	US-WMTB (44X15) RD	0829334	158
US-EMLP (60X15) SR	0828904	205	US-EMP (60X15) YE	0828856	208	US-WMT (15X4) YE CUS	0829974	156	US-WMTB (44X15) RD CUS	0830019	159
US-EMLP (60X15) SR CUS	0830114	207	US-EMP (60X15) YE CUS	0830053	209	US-WMT (18X4)	0828768	157	US-WMTB (44X15) VT	0829337	158
US-EMLP (60X15) YE	0828903	205	US-EMP (60X30)	0828782	208	US-WMT (18X4) BU	0829298	157	US-WMTB (44X15) VT CUS	0830022	159
US-EMLP (60X15) YE CUS	0830113	207	US-EMP (60X30) CUS	0830055	209	US-WMT (18X4) BU CUS	0829983	157	US-WMTB (44X15) YE	0828960	158
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	WCC 14	3240252	381	WML 7,5 (13X13)R	0800074	160	WMS 25,4 (60X40)R YE CUS	0800762	167	WMS 9,5 (30X16)R YE CUS	0800769	167
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	WCC 30	3240256	381	WML 46 (25X38)R	0800067	160	WMS 25,4 (EX4)R CUS	0800709	170	WMS 9,5 (EX15)R CUS	0800706	170
	WCC 34	3240257	381	WMS 12,7 (60X20)R	0800369	164	WMS 25,4 (EX4)R YE	0800308	169	WMS 9,5 (EX15)R YE CUS	0800717	171
	WCC 38	3240258	381	WMS 12,7 (60X20)R YE	0800403	164	WMS 25,4 (EX4)R YE CUS	0800722	171	WMS 9,5 (EX16)R	0800293	168
WCC 42	3240259	381	WMS 19,1 (60X30)R	0800370	164	WMS 25,4 (EX4)RL	0800327	168	WMS 9,5 (EX16)R BK	0800421	169	
WCC 56	3240260	381	WMS 19,1 (60X30)R YE	0800404	164	WMS 25,4 (EX4)RL BK	0800435	169	WMS 9,5 (EX16)R YE	0800304	169	
WCC 64	3240261	381	WMS 2,4 (15X4)R	0800379	164	WMS 25,4 (EX4)RL YE	0800336	169	WMS 9,5 (EX16)RL	0800324	168	
WF 1000	1212149	329	WMS 2,4 (15X4)R YE	0800412	164	WMS 3,2 (15X5)R CUS	0800753	166	WMS 9,5 (EX16)RL BK	0800431	169	
WF 1000 120V	1212258	329	WMS 2,4 (15X4)RL	0800389	165	WMS 3,2 (15X5)R YE CUS	0800771	167	WMS 9,5 (EX16)RL YE	0800332	169	
WF 1000/SB	1212279	329	WMS 2,4 (15X4)RXL	0800396	165	WMS 3,2 (30X5)R CUS	0800746	166	WMT 2,4 (15X4)R	0816281	174	
WIREFOX 10	1212150	263	WMS 2,4 (30X4)R	0800373	164	WMS 3,2 (30X5)R YE CUS	0800766	167	WMT 2,4 (15X4)R CUS	0824927	174	
WIREFOX 10 VDE	1212366	265	WMS 2,4 (30X4)R YE	0800407	164	WMS 3,2 (60X5)R CUS	0800737	166	WMT 3,5 (15X5)R	0817222	174	
WIREFOX 10/SB	1212152	263	WMS 2,4 (30X4)RL	0800386	165	WMS 3,2 (60X5)R YE CUS	0800756	167	WMT 3,5 (15X5)R CUS	0824928	174	
WIREFOX 16	1212155	263	WMS 2,4 (30X4)RXL	0800394	165	WMS 3,2 (EX5)R	0800290	168	WMT 4,2 (15X6)R	0817235	174	
WIREFOX 16-1	1212157	264	WMS 2,4 (60X4)R	0800363	164	WMS 3,2 (EX5)R BK	0800416	169	WMT 4,2 (15X6)R CUS	0824929	174	
WIREFOX 16-1/SB	1204944	264	WMS 2,4 (60X4)R YE	0800398	164	WMS 3,2 (EX5)R BK CUS	0800726	171	WMT 5,5 (15X8)R	0817248	174	
WIREFOX 16/SB	1212153	263	WMS 2,4 (60X4)RL	0800383	165	WMS 3,2 (EX5)R CUS	0800702	170	WMT 5,5 (15X8)R CUS	0824930	174	
WIREFOX 2,5	1212368	262	WMS 2,4 (60X4)RXL	0800392	165	WMS 3,2 (EX5)R YE	0800301	169	WMT 8,4 (17X10)R	0817251	174	
WIREFOX 2,5/SB	1212369	262	WMS 25,4 (60X40)R	0800371	164	WMS 3,2 (EX5)R YE CUS	0800714	171	WMT 8,4 (17X10)R CUS	0824931	174	
WIREFOX 2,5/WS	1212370	262	WMS 25,4 (60X40)R YE	0800405	164	WMS 3,2 (EX5)RL	0800320	168	WMTB (24X8)R	0816278	175	
WIREFOX 4	1212156	262	WMS 3,2 (15X5)R	0800380	164	WMS 3,2 (EX5)RL BK	0800428	169	WMTB (24X8)R CUS	0824932	175	
WIREFOX 4/SB	1212151	262	WMS 3,2 (15X5)R YE	0800413	164	WMS 3,2 (EX5)RL YE	0800329	169	WMTB (35X15)R	0817316	175	
WIREFOX 6SC	1212158	263	WMS 3,2 (15X5)RL	0800390	165	WMS 38,1 (60X60)R CUS	0800744	166	WMTB (35X15)R CUS	0824933	175	
WIREFOX 6SC/SB	1212314	263	WMS 3,2 (30X5)R	0800374	164	WMS 38,1 (60X60)R YE CUS	0800764	167				
WIREFOX ASI	1212154	265	WMS 3,2 (30X5)R YE	0800408	164	WMS 38,1 (EX60)R	0800298	168				
WIREFOX ASI/SB	1208076	265	WMS 3,2 (30X5)RL	0800387	165	WMS 38,1 (EX60)R BK	0800425	169				
WIREFOX FC	1212619	265	WMS 3,2 (60X5)R	0800364	164	WMS 38,1 (EX60)R BK CUS	0800733	171				
WIREFOX SAC	1212623	264	WMS 3,2 (60X5)R YE	0800399	164	WMS 38,1 (EX60)R CUS	0800710	170				
WIREFOX-D 11	1212160	266	WMS 3,2 (60X5)RL	0800384	165	WMS 38,1 (EX60)R YE	0800309	169				
WIREFOX-D 11/SB	1212312	266	WMS 38,1 (60X60)R	0800372	164	WMS 38,1 (EX60)R YE CUS	0800723	171	X-PEN 0,35	0811228	42	
WIREFOX-D 13	1212162	266	WMS 38,1 (60X60)R YE	0800406	164	WMS 4,8 (15X7,5)R	0800382	164				
WIREFOX-D 16	1212173	267	WMS 6,4 (30X10)R	0800376	164	WMS 4,8 (15X7,5)R CUS	0800754	166				
WIREFOX-D 28	1212174	267	WMS 6,4 (30X10)R YE	0800410	164	WMS 4,8 (15X7,5)R YE	0800414	164				
WIREFOX-D 40	1212161	267	WMS 6,4 (60X10)R	0800367	164	WMS 4,8 (15X7,5)R YE CUS	0800772	167				
WIREFOX-D 40/SB	1212313	267	WMS 6,4 (60X10)R YE	0800401	164	WMS 4,8 (15X7,5)RL	0800391	165				
WIREFOX-D CX-1	1212163	267	WMS 9,5 (30X16)R	0800377	164	WMS 4,8 (15X7,5)RXL	0800397	165				
WIREFOX-D CX-1/SB	1212303	267	WMS 9,5 (30X16)R YE	0800411	164	WMS 4,8 (30X7,5)R	0800375	164				
WIREFOX-D CX-2	1212164	267	WMS 9,5 (60X16)R	0800368	164	WMS 4,8 (30X7,5)R CUS	0800748	166	ZAP 25	1203110	330	
WIREFOX-D CX-2/SB	1212304	267	WMS 9,5 (60X16)R YE	0800402	164	WMS 4,8 (30X7,5)R YE	0800409	164	ZAP 25 T	1203123	330	
WIREFOX-D CX-3	1212165	267	WMS 12,7 (60X20)R CUS	0800741	166	WMS 4,8 (30X7,5)R YE CUS	0800767	167	ZAP 100	1203259	330	
WIREFOX-D CX-3/SB	1212305	267	WMS 12,7 (60X20)R YE CUS	0800760	167	WMS 4,8 (30X7,5)RL	0800388	165	ZAP 100 T	1203262	330	
WIREFOX-D CX-4	1212166	267	WMS 12,7 (EX20)R	0800294	168	WMS 4,8 (30X7,5)RXL	0800395	165	ZB 10 CUS	0824941	62	
WIREFOX-D CX-4/SB	1212306	267	WMS 12,7 (EX20)R BK	0800422	169	WMS 4,8 (60X7,5)R	0800366	164	ZB 10 UNBEDRUCKT	1053001	62	
WIREFOX-D CX-5	1212167	267	WMS 12,7 (EX20)R BK CUS	0800730	171	WMS 4,8 (60X7,5)R CUS	0800738	166	ZB 12 CUS	0824942	63	
WIREFOX-D CX-5/SB	1212307	267	WMS 12,7 (EX20)R CUS	0800707	170	WMS 4,8 (60X7,5)R YE	0800400	164	ZB 12,LGS:L1-N,PE	0812146	63	
WIREFOX-D CX-6	1212168	267	WMS 12,7 (EX20)R YE	0800305	169	WMS 4,8 (EX7,5)R YE CUS	0800757	167	ZB 12:UNPRINTED	0812120	63	
WIREFOX-D CX-6/SB	1212308	267	WMS 12,7 (EX20)R YE CUS	0800719	171	WMS 4,8 (60X7,5)RL	0800385	165	ZB 13 CUS	0829132	63	
WIREFOX-D CX-7	1212169	267	WMS 12,7 (EX20)RL	0800325	168	WMS 4,8 (60X7,5)RXL	0800393	165	ZB 13:UNBEDRUCKT	0829131	63	
WIREFOX-D CX-7/SB	1212309	267	WMS 12,7 (EX20)RL BK	0800432	169	WMS 4,8 (EX7,5)R BK CUS	0800727	171	ZB 15 CUS	0824945	63	
WIREFOX-D CX-8	1212170	267	WMS 12,7 (EX20)RL YE	0800333	169	WMS 4,8 (EX7,5)R CUS	0800703	170	ZB 15,LGS:L1-N,PE	0811998	63	
WIREFOX-D CX-8/SB	1212310	267	WMS 19,1 (60X30)R CUS	0800742	166	WMS 4,8 (EX7,5)R YE CUS	0800715	171	ZB 15:UNBEDRUCKT	0811972	63	
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WIREFOX-D SR 6	1212507	267	WMS 19,1 (EX30)R BK CUS	0800731	171	WMS 4,8 (EX9)RL	0800321	168	ZB 17:UNBEDRUCKT	0829391	64	
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0800307 UBE/D	347	0800401 WMS 6,4 (60X10)R YE	164	0800722 WMS 25,4 (EX40)R YE CUS	171	0804549 SK 7,62/3,8:FORTL.ZAHLEN	89
0800308 WMS 25,4 (EX40)R YE	169	0800402 WMS 9,5 (60X16)R YE	164	0800723 WMS 38,1 (EX60)R YE CUS	171	0804552 SK 7,62/5:FORTL.ZAHLEN	90
0800309 WMS 38,1 (EX60)R YE	169	0800403 WMS 12,7 (60X20)R YE	164	0800724 WMS 50,8 (EX80)R YE CUS	171	0804853 SK 2,54/2,8:FORTL.ZAHLEN	86
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0819440	UC-WMT (30X4) YE	150	0822314	EMLP 24 (30X12) BK	227	0824283	EML (100X73)R SR CUS	215	0824383	EMT (29X8)R CUS	173
0819453	EMLP (13X9)R	216	0822327	EMLP 32 (38X14) BK	227	0824284	EML (100X73)R YE CUS	215	0824384	EMT (29X8)R YE CUS	173
0819466	EMLP (17,5X12)R	216	0822330	EMLP 24 (30X12) SR	227	0824285	EML (100X90)R CUS	214	0824385	EMT (40X17)R CUS	173
0819479	EMLP (20X7)R	216	0822343	EMLP 32 (38X14) SR	227	0824286	EML (100X90)R SR CUS	215	0824401	ESL 29X 8 CUS	176
0819482	EMLP (20X8)R	216	0822369	UC3-TM 5	106	0824288	EML (101,6X25,4)R SR CUS	215	0824403	ESL 40X17 CUS	177
0819495	EMLP (22X12)R	216	0822385	UC3-TM 6	107	0824289	EML (10X4)R CUS	214	0824404	ESL 44X 7 CUS	347
0819505	EMLP (60X30)R	216	0822408	UC3-TM 8	107	0824290	EML (10X7)R CUS	214	0824410	FKML 35X25 WH CUS	163
0819518	EMLP (27X8)R SR	216	0822440	PATG 1/30	190	0824291	EML (10X7)R YE CUS	214	0824411	FKML 47X25 WH CUS	163
0819521	EMLP (27X12,5)R SR	216	0822453	PATG 2/30	190	0824294	EML (15X9)R CUS	214	0824414	GPE 13X 9 WH CUS	226
0819534	EMLP (27X18)R SR	216	0822466	PATG 3/30	190	0824295	EML (15X9)R SR CUS	215	0824415	GPE 17,5X12 WH CUS	226
0819547	EMLP (45X15)R SR	216	0822479	PATG 4/30	190	0824296	EML (15X9)R YE CUS	215	0824416	GPE 20X 7 WH CUS	226
0819550	EMLP 24 (30X12)R	217	0822482	PATG 5/30	190	0824297	EML (16,5X5)R CUS	214	0824417	GPE 20X 8 WH CUS	226
0819563	EMLP 24 (30X12)R SR	217	0822495	PATO 1/30	191	0824298	EML (16,5X5)R YE CUS	215	0824418	GPE 22X12 WH CUS	226
0819576	EMLP 24 (30X12)R RD	217	0822505	PATO 2/30	191	0824301	EML (16X7)R CUS	214	0824419	GPE 22X22 SR/R CUS	226
0819589	EMLP 24 (30X12)R GN	217	0822602	UC-EMLP (11X9) YE	196	0824302	EML (16X7)R YE CUS	215	0824420	GPE 27X 8 SR/R CUS	226
0819631	UC-WMC 3,1 (30X4)	137	0822615	UC-EMLP (15X5) YE	196	0824303	EML (17,5X8)R CUS	214	0824421	GPE 27X 8 WH/R CUS	226
0819644	UC-WMC 3,1 (30X4) YE	137	0822628	UC-EMLP (17X9) YE	196	0824304	EML (17,5X8)R YE CUS	215	0824422	GPE 27X12,5 SR/R CUS	226
0819657	UC-WMC 4,4 (30X5,5)	139	0822631	UC-EMLP (20X8) YE	196	0824306	EML (19X6)R CUS	214	0824423	GPE 27X18 SR/R CUS	226
0819660	UC-WMC 4,4 (30X5,5) YE	139	0822644	UC-EMLP (60X15) YE	196	0824308	EML (20X7)R YE CUS	215	0824424	GPE 27X 18 WH/R CUS	226
0819673	UC-WMC 7,5 (30X8)	141	0822657	UC-EMLP (60X30) YE	196	0824309	EML (20X8)R CUS	214	0824425	GPE 27X27 SR/R CUS	226
0819686	UC-WMC 7,5 (30X8) YE	141	0822660	UC-TM 12 VT	53	0824310	EML (20X8)R YE CUS	215	0824426	GPE 28X17,5 SR CUS	226
0820183	UC-WMTBA (29X8)	153	0822673	UC-TM 16 VT	53	0824312	EML (21,5X21,5)R SR CUS	215	0824427	GPE 45X14 SR/R CUS	226
0820222	ZB 16,3-UNPRINTED	64	0822686	UC-TMF 12 VT	56	0824313	EML (25,4X12,7)R CUS	214	0824428	GPE 45X14 WH/R CUS	226
0820293	UC-WMT (18X4)	149	0822699	UC-TMF 16 VT	56	0824314	EML (25,4X12,7)R YE CUS	215	0824429	GPE 52X26 WH CUS	226
0820303	UC-WMT (18X4) YE	149	0822945	UC-TMN 5,2	57	0824315	EML (26,5X12)R SR CUS	215	0824430	GPE 60X 12 SR/R CUS	226
0820390	UC-WMTBA (29X8) YE	153	0823517	UC-WMT (12X4)	149	0824318	EML (26,5X17,5)R SR CUS	215	0824431	GPE 60X 12 WH/R CUS	226
0820426	UC-WMTBA (24X5)	152	0823575	UC-WMT (12X4) BU	149	0824319	EML (26,5X17,5)R YE CUS	215	0824432	GPE 60X30 WH CUS	226
0820439	UC-WMTBA (24X5) YE	152	0823588	UC-WMT (12X4) OG	149	0824320	EML (26,5X18,5)R SR CUS	215	0824433	GPE 60X30 WH/R CUS	226
0820468	UC-WMTBA (60X11)	153	0823591	UC-WMT (12X4) YE	149	0824321	EML (26,5X26,5)R SR CUS	215	0824434	KML 12X 9 WH CUS	163
0820471	UC-WMTBA (60X11) YE	153	0823601	UC-WMT (12X4) GN	149	0824322	EML (26,5X7,5)R SR CUS	215	0824435	KML 25X12 WH CUS	163
0820507	PATG 0/18	190	0823614	UC-WMT (12X4) RD	149	0824323	EML (30X20)R CUS	214	0824449	PABL 15X4 CUS	173
0820510	PATG 1/18	190	0823708	UC-WMC 7,5 (30X8) GN	141	0824324	EML (30X20)R YE CUS	215	0824472	TML (101X4,2)R TR CUS	85
0820523	PATG 2/18	190	0823724	UC-WMC 7,5 (30X8) OG	141	0824327	EML (38,1X19)R CUS	214	0824473	TML (101X9,5)R TR CUS	85
0820536	PATG 3/18	190	0823740	PATO 1/18	191	0824328	EML (38X17)R CUS	214	0824474	TML (EX,4,2)R TR CUS	85
0820549	PATG 4/18	190	0823753	PATO 2/18	191	0824329	EML (40X15)R SR CUS	215	0824475	TML (EX9,5)R TR CUS	85
0820552	UC-WMTBA (24X5) BU	152	0823766	UC-EM (17,5X8)	202	0824330	EML (40X25)R CUS	214	0824476	TMT 4 R CUS	82
0820565	UC-WMTBA (24X5) RD	152	0823863	UC-WMC 3,1 (30X4) OG	137	0824331	EML (40X25)R YE CUS	215	0824477	TMT 4 R BU CUS	82
0820594	UC-WMTBA (29X8) BU	153	0823944	UC-WMC 4,4 (30X5,5) OG	139	0824332	EML (40X8)R CUS	214	0824478	TMT 4 R GN CUS	82
0820604	UC-WMTBA (29X8) RD	153	0823957	UC-WMC 4,4 (30X5,5) GN	139	0824333	EML (50,8X25,4)R CUS	214	0824479	TMT 4 R BU CUS	82
0820633	UC-WMTBA (60X11) BU	153	0823986	UC-WMT (10X4) OG	148	0824335	EML (51X25)R CUS	214	0824480	TMT 4 R RD CUS	82
0820646	UC-WMTBA (60X11) RD	153	0823999	UC-WMT (10X4) GN	148	0824336	EML (51X25)R SR CUS	215	0824481	TMT 4 R YE CUS	82
0820756	UC-WMC 3,1 (30X4) BU	137	0824037	UC-WMT (15X4) OG	149	0824337	EML (51X25)R YE CUS	215	0824482	TMT 5 R CUS	83
0820769	UC-WMC 3,1 (30X4) RD	137	0824040	UC-WMT (15X4) GN	149	0824339	EML (69,8X31,8)R CUS	214	0824483	TMT 5 R BU CUS	83
0820879	UC-WMC 4,4 (30X5,5) BU	139	0824079	UC-WMT (18X4) OG	149	0824340	EML (70X32)R CUS	214	0824484	TMT 5 R GN CUS	83
0820882	UC-WMC 4,4 (30X5,5) RD	139	0824082	UC-WMT (18X4) GN	149	0824341	EML (70X32)R SR CUS	215	0824485	TMT 5 R OG CUS	83
0820950	UC-WMC 7,5 (30X8) BU	141	0824118	UC-WMT (23X4) OG	150	0824342	EML (70X32)R YE CUS	215	0824486	TMT 5 R RD CUS	83
0820963	UC-WMC 7,5 (30X8) RD	141	0824121	UC-WMT (23X4) GN	150	0824343	EML (70X50)R CUS	214	0824487	TMT 5 R YE CUS	83
0820992	UC-WMT (10X4) BU	148	0824150	UC-WMT (30X4) OG	150	0824344	EML (70X50)R SR CUS	215	0824488	TMT 6 R CUS	83
0821001	UC-WMT (10X4) RD	148	0824163	UC-WMT (30X4) GN	150	0824345	EML (76,2X6,5)R YE CUS	215	0824489	TMT 6 R BU CUS	83

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0824509	UC1-TM 6 CUS	99	0824631	UC-TMF 4 BU CUS	54	0824758	UC-WMC 4,4 (30X5,5) OG CUS	139	0824949	ZB 22 CUS	65
0824511	UC1-TM 8 CUS	99	0824632	UC-TMF 4 GN CUS	54	0824759	UC-WMC 4,4 (30X5,5) RD CUS	139	0824951	ZB 4 CUS	59
0824513	UC1-TMF 4 CUS	100	0824633	UC-TMF 4 OG CUS	54	0824764	UC-WMC 7,5 (23X 8) RD CUS	140	0824962	ZB 5 CUS	59
0824515	UC1-TMF 5 CUS	101	0824634	UC-TMF 4 RD CUS	54	0824767	UC-WMC 7,5 (23X8) CUS	140	0824963	ZB 5,08 CUS	59
0824517	UC1-TMF 6 CUS	101	0824635	UC-TMF 4 VT CUS	54	0824768	UC-WMC 7,5 (23X8) BU CUS	140	0824978	ZB 6,6 CUS	60
0824519	UC1-TMF 8 CUS	101	0824636	UC-TMF 4 YE CUS	54	0824769	UC-WMC 7,5 (23X8) GN CUS	140	0824992	ZB 6 CUS	60
0824521	UC1U-TM 5 CUS	99	0824638	UC-TMF 5 CUS	54	0824770	UC-WMC 7,5 (23X8) OG CUS	140	0824994	ZB 7,5 CUS	61
0824525	UC2F-TM 4 CUS	104	0824639	UC-TMF 5 BU CUS	54	0824771	UC-WMC 7,5 (23X8) YE CUS	140	0824997	ZB 7,82 CUS	61
0824527	UC2F-TM 5 CUS	105	0824640	UC-TMF 5 GN CUS	54	0824776	UC-WMC 7,5 (30X 8) CUS	141	0825011	ZB 8 CUS	61
0824529	UC2F-TM 6 CUS	105	0824641	UC-TMF 5 OG CUS	54	0824777	UC-WMC 7,5 (30X 8) YE CUS	141	0825018	ZB 12 CUS	69
0824531	UC2F-TM 8 CUS	105	0824642	UC-TMF 5 RD CUS	54	0824780	UC-WMC 7,5 (30X8) BU CUS	141	0825019	ZBF 15 CUS	70
0824533	UC2-TM 4 CUS	102	0824643	UC-TMF 5 VT CUS	54	0824781	UC-WMC 7,5 (30X8) GN CUS	141	0825020	ZBF 17 CUS	71
0824535	UC2-TM 5 CUS	103	0824644	UC-TMF 5 YE CUS	54	0824782	UC-WMC 7,5 (30X8) OG CUS	141	0825021	ZBF 19,7 CUS	71
0824537	UC2-TM 6 CUS	103	0824646	UC-TMF 6 CUS	55	0824783	UC-WMC 7,5 (30X8) RD CUS	141	0825023	ZBF 4 CUS	67
0824539	UC2-TM 8 CUS	103	0824647	UC-TMF 6 BU CUS	55	0824788	UC-WMT (10X 4) CUS	148	0825025	ZBF 5 CUS	67
0824547	UC-EMLP (11X9) CUS	197	0824648	UC-TMF 6 GN CUS	55	0824789	UC-WMT (10X 4) BU CUS	148	0825027	ZBF 6 CUS	67
0824548	UC-EMLP (11X9) YE CUS	197	0824649	UC-TMF 6 OG CUS	55	0824790	UC-WMT (10X 4) RD CUS	148	0825028	ZBF 7,5 CUS	68
0824550	UC-EMLP (15X5) CUS	197	0824650	UC-TMF 6 RD CUS	55	0824791	UC-WMT (10X 4) YE CUS	148	0825030	ZBF 8 CUS	68
0824551	UC-EMLP (15X5) YE CUS	197	0824651	UC-TMF 6 VT CUS	55	0824795	UC-WMT (10X4) GN CUS	148	0825031	ZBF10 CUS	69
0824553	UC-EMLP (17X9) CUS	197	0824652	UC-TMF 6 YE CUS	55	0824796	UC-WMT (10X4) OG CUS	148	0825120	SK 2,8 REEL P2,54 WH CUS	86
0824554	UC-EMLP (17X9) YE CUS	197	0824654	UC-TMF 8 CUS	55	0824812	UC-WMT (15X 4) CUS	149	0825121	SK 2,8 REEL P3,5 WH CUS	87
0824556	UC-EMLP (20X8) CUS	197	0824655	UC-TMF 8 BU CUS	55	0824813	UC-WMT (15X 4) BU CUS	149	0825122	SK 2,8 REEL P3,81 WH CUS	87
0824557	UC-EMLP (20X8) YE CUS	197	0824656	UC-TMF 8 GN CUS	55	0824814	UC-WMT (15X 4) RD CUS	149	0825123	SK 2,8 REEL P5,08 WH CUS	87
0824559	UC-EMLP (60X15) CUS	197	0824657	UC-TMF 8 OG CUS	55	0824815	UC-WMT (15X 4) YE CUS	149	0825124	SK 3,8 REEL P5 WH CUS	88
0824560	UC-EMLP (60X15) YE CUS	197	0824658	UC-TMF 8 RD CUS	55	0824820	UC-WMT (15X4) GN CUS	149	0825125	SK 3,8 REEL P5,08 WH CUS	88
0824562	UC-EMLP (60X30) CUS	197	0824659	UC-TMF 8 VT CUS	55	0824821	UC-WMT (15X4) OG CUS	149	0825126	SK 3,8 REEL P6,2 WH CUS	89
0824563	UC-EMLP (60X30) YE CUS	197	0824660	UC-TMF 8 YE CUS	55	0824824	UC-WMT (18X 4) CUS	149	0825127	SK 3,8 REEL P7,5 WH CUS	89
0824567	UC-EM (17,5X8) CUS	203	0824662	UC-TMF 10 CUS	55	0824825	UC-WMT (18X 4) BU CUS	149	0825128	SK 3,8 REEL P7,62 WH CUS	89
0824569	UC-EMP (60X15) CUS	199	0824663	UC-TMF 10 BU CUS	55	0824826	UC-WMT (18X 4) RD CUS	149	0825131	SK 5,0 REEL P7,5 WH CUS	90
0824571	UC-EMP (60X30) CUS	199	0824664	UC-TMF 10 GN CUS	55	0824827	UC-WMT (18X 4) YE CUS	149	0825132	SK 5,0 REEL P7,62 WH CUS	90
0824573	UC-TM 4 CUS	50	0824665	UC-TMF 10 OG CUS	55	0824832	UC-WMT (18X4) GN CUS	149	0825330	UC-EMP (60X15) YE	199
0824574	UC-TM 4 BU CUS	50	0824666	UC-TMF 10 RD CUS	55	0824833	UC-WMT (18X4) OG CUS	149	0825331	UC-EMP (60X30) YE	199
0824575	UC-TM 4 GN CUS	50	0824667	UC-TMF 10 VT CUS	55	0824838	UC-WMT (23X4) CUS	150	0825342	UC-WMTBA (24X5) OG	152
0824576	UC-TM 4 OG CUS	50	0824668	UC-TMF 10 YE CUS	55	0824839	UC-WMT (23X4) BU CUS	150	0825343	UC-WMTBA (24X5) GN	152
0824577	UC-TM 4 RD CUS	50	0824670	UC-TMF 12 CUS	56	0824840	UC-WMT (23X4) GN CUS	150	0825344	UC-WMTBA (24X5) VT	152
0824578	UC-TM 4 VT CUS	50	0824671	UC-TMF 12 BU CUS	56	0824841	UC-WMT (23X4) OG CUS	150	0825345	UC-WMTBA (29X8) OG	153
0824579	UC-TM 4 YE CUS	50	0824672	UC-TMF 12 GN CUS	56	0824842	UC-WMT (23X4) RD CUS	150	0825346	UC-WMTBA (29X8) GN	153
0824581	UC-TM 5 CUS	51	0824673	UC-TMF 12 OG CUS	56	0824843	UC-WMT (23X4) YE CUS	150	0825347	UC-WMTBA (29X8) VT	153
0824582	UC-TM 5 BU CUS	51	0824674	UC-TMF 12 RD CUS	56	0824848	UC-WMT (30X 4) CUS	150	0825348	UC-WMTBA (60X11) OG	153
0824583	UC-TM 5 GN CUS	51	0824675	UC-TMF 12 VT CUS	56	0824849	UC-WMT (30X 4) YE CUS	150	0825349	UC-WMTBA (60X11) GN	153
0824584	UC-TM 5 OG CUS	51	0824676	UC-TMF 12 YE CUS	56	0824852	UC-WMT (30X4) BU CUS	150	0825350	UC-WMTBA (60X11) VT	153
0824585	UC-TM 5 RD CUS	51	0824678	UC-TMF 16 CUS	56	0824853	UC-WMT (30X4) GN CUS	150	0825360	UC-WMT (10X4) VT	148
0824586	UC-TM 5 VT CUS	51	0824679	UC-TMF 16 BU CUS	56	0824854	UC-WMT (30X4) OG CUS	150	0825361	UC-WMT (15X4) VT	149
0824587	UC-TM 5 YE CUS	51	0824680	UC-TMF 16 GN CUS	56	0824855	UC-WMT (30X4) RD CUS	150	0825362	UC-WMT (18X4) VT	149
0824589	UC-TM 6 CUS	51	0824681	UC-TMF 16 OG CUS	56	0824860	UC-WMTBA (24X5) CUS	152	0825363	UC-WMT (23X4) VT	150
0824590	UC-TM 6 BU CUS	51	0824682	UC-TMF 16 RD CUS	56	0824861	UC-WMTBA (24X5) BU CUS	152	0825364	UC-WMT (30X4) VT	150
0824591	UC-TM 6 GN CUS	51	0824683	UC-TMF 16 VT CUS	56	0824862	UC-WMTBA (24X5) RD CUS	152	0825370	UC-WMC 3,1 (15X4) VT	137
0824592	UC-TM 6 OG CUS	51	0824684	UC-TMF 16 YE CUS	56	0824863	UC-WMTBA (24X5) YE CUS	152	0825371	UC-WMC 3,1 (23X4) VT	137
0824593	UC-TM 6 RD CUS	51	0824690	UC-TMN 7,5 CUS	57	0824868	UC-WMTBA (29X8) CUS	153	0825372	UC-WMC 3,1 (30X4) VT	137
0824594	UC-TM 6 VT CUS	51	0824692	UC-WMC 3,1 (15X 4) CUS	137	0824869	UC-WMTBA (29X8) BU CUS	153	0825373	UC-WMC 4,4 (15X5,5) VT	138
0824595	UC-TM 6 YE CUS	51	0824693	UC-WMC 3,1 (15X 4) BU CUS	137	0824870	UC-WMTBA (29X8) RD CUS	153	0825374	UC-WMC 4,4 (23X5,5) VT	138
0824597	UC-TM 8 CUS	51	0824695	UC-WMC 3,1 (15X 4) OG CUS	137	0824871	UC-WMTBA (29X8) YE CUS	153	0825375	UC-WMC 4,4 (30X5,5) VT	139
0824598	UC-TM 8 BU CUS	51	0824696	UC-WMC 3,1 (15X 4) RD CUS	137	0824876	UC-WMTBA (60X11) CUS	153	0825376	UC-WMC 7,5 (23X8) VT	140
0824599	UC-TM 8 GN CUS	51	0824697	UC-WMC 3,1 (15X 4) YE CUS	137	0824877	UC-WMTBA (60X11) BU CUS	153	0825377	UC-WMC 7,5 (30X8) VT	141
0824600	UC-TM 8 OG CUS	51	0824704	UC-WMC 3,1 (23X 4) CUS	137	0824878	UC-WMTBA (60X11) RD CUS	153	0825378	UC-WMT (12X4) VT	149
0824601	UC-TM 8 RD CUS	51	0824705	UC-WMC 3,1 (23X 4) BU CUS	137	0824879	UC-WMTBA (60X11) YE CUS	153	0825382	UC-WMC 5,6 (23X8) GN	139
0824602	UC-TM 8 VT CUS	51	0824707	UC-WMC 3,1 (23X 4) OG CUS	137	0824884	WML 3 (13X10)R CUS	161	0825383	UC-WMC 5,6 (23X8) BU	139
0824603	UC-TM 8 YE CUS	51	0824708	UC-WMC 3,1 (23X 4) RD CUS	137	0824885	WML 5 (25X10)R CUS	161	0825384	UC-WMC 5,6 (23X8) GN	139
0824605	UC-TM 10 CUS	52	0824709	UC-WMC 3,1 (23X 4) YE CUS	137	0824886	WML 6 (13X13)R CUS	161	0825385	UC-WMC 5,6 (23X8) OG	139
0824606	UC-TM 10 BU CUS	52	0824716	UC-WMC 3,1 (30X4) CUS	137	0824887	WML 7,5 (13X13)R CUS	161	0825386	UC-WMC 5,6 (23X8) YE	139
0824607	UC-TM 10 GN CUS	52	0824717	UC-WMC 3,1 (30X4) YE CUS	137	0824888	WML 7,5 (25X13)R CUS	161	0825387	UC-WMC 5,6 (23X8) RD	139
0824608	UC-TM 10 OG CUS	52	0824720	UC-WMC 3,1 (30X4) BU CUS	137	0824889	WML 12 (25X19)R CUS	161	0825388	UC-WMC 5,6 (23X8) VT	139

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0825397	UC-WMC 5,6 (30X8) BU	139	0825942	SD-WMS 5 (NU)R YE	185	0826811	UC-WMTBA (60X11) GN CUS	153	0827518	UC-WMCO 1,6 (12X3) VT	142
0825398	UC-WMC 5,6 (30X8) GN	139	0825955	SD-WMS 5 (CH)R YE	185	0826812	UC-WMTBA (60X11) OG CUS	153	0827525	UC-WMCO 1,6 (21X3) YE	143
0825399	UC-WMC 5,6 (30X8) OG	139	0825968	SD-WMS 5 (SY)R YE	185	0826813	UC-WMTBA (60X11) VT CUS	153	0827526	UC-WMCO 1,6 (21X3) BU	143
0825400	UC-WMC 5,6 (30X8) YE	139	0825971	SD-WMS 5 (NEUTRAL)R YE	185	0826844	EMLP (17X7)R	216	0827527	UC-WMCO 1,6 (21X3) GN	143
0825401	UC-WMC 5,6 (30X8) RD	139	0826022	SD-WMS 5 (SY)R BU	185	0826857	UC-TMN 5,2 CUS	57	0827528	UC-WMCO 1,6 (21X3) RD	143
0825402	UC-WMC 5,6 (30X8) VT	139	0826035	SD-WMS 5 (SY)R RD	185	0826888	UC-3-TM 5 CUS	106	0827529	UC-WMCO 1,6 (21X3) OG	143
0825421	UC-EMP (17X15)	199	0826051	SD-WMS 5 (NU)S YE	187	0826889	UC-3-TM 6 CUS	107	0827530	UC-WMCO 1,6 (21X3) VT	143
0825422	UC-EMP (17X15) YE	199	0826064	SD-WMS 5 (CH)S YE	187	0826890	UC-3-TM 8 CUS	107	0827537	UC-WMCO 2,1 (12X3) YE	143
0825423	UC-EMP (17X15) SR	199	0826077	SD-WMS 5 (SY)S YE	187	0826967	UC-EMLP (27X12,5) CUS	197	0827538	UC-WMCO 2,1 (12X3) BU	143
0825427	UC-EMP (27X8)	200	0826080	SD-WMS 5 (NEUTRAL)S YE	187	0826968	UC-EMLP (27X12,5) YE CUS	197	0827539	UC-WMCO 2,1 (12X3) GN	143
0825428	UC-EMP (27X8) YE	200	0826093	SD-WMS 5 (SY)S BU	187	0826969	UC-EMLP (27X12,5) SR CUS	197	0827540	UC-WMCO 2,1 (12X3) RD	143
0825429	UC-EMP (27X8) SR	200	0826103	SD-WMS 5 (SY)S RD	187	0826970	UC-EMLP (27X18) CUS	197	0827541	UC-WMCO 2,1 (12X3) OG	143
0825430	UC-EMP (27X12,5)	200	0826129	SD-WMS 10 (NU) YE	183	0826971	UC-EMLP (27X18) YE CUS	197	0827542	UC-WMCO 2,1 (12X3) VT	143
0825434	UC-EMP (27X12,5) YE	200	0826132	SD-WMS 10 (CH) YE	183	0826972	UC-EMLP (27X18) SR CUS	197	0827549	UC-WMCO 2,1 (21X3) YE	143
0825435	UC-EMP (27X12,5) SR	200	0826145	SD-WMS 10 (SY) YE	183	0826973	UC-EMLP (27X27) CUS	197	0827551	UC-WMCO 2,1 (21X3) GN	143
0825439	UC-EMP (27X15)	199	0826158	SD-WMS 10 (NEUTRAL) YE	183	0826974	UC-EMLP (27X27) YE CUS	197	0827552	UC-WMCO 2,1 (21X3) RD	143
0825440	UC-EMP (27X15) YE	199	0826161	SD-WMS 10 (NU)	183	0826975	UC-EMLP (27X27) SR CUS	197	0827553	UC-WMCO 2,1 (21X3) OG	143
0825441	UC-EMP (27X15) SR	199	0826174	SD-WMS 10 (CH)	183	0826985	UC-EMLP (22X22) CUS	197	0827554	UC-WMCO 2,1 (21X3) VT	143
0825445	UC-EMP (27X18)	200	0826187	SD-WMS 10 (SY)	183	0826986	UC-EMLP (22X22) YE CUS	197	0827561	UC-WMCO 2,9 (12X3,5) BU	144
0825446	UC-EMP (27X18) YE	200	0826200	SD-WMS 10 (NEUTRAL)	183	0826987	UC-EMLP (22X22) SR CUS	197	0827562	UC-WMCO 2,9 (12X3,5) BU	144
0825443	UC-EMP (27X18) SR	200	0826213	SD-WMS 10 (SY) BU	183	0827005	UC-WMC 5,6 (23X8) CUS	139	0827563	UC-WMCO 2,9 (12X3,5) GN	144
0825451	UC-EMP (27X27)	200	0826226	SD-WMS 10 (SY) RD	183	0827006	UC-WMC 5,6 (23X8) BU CUS	139	0827564	UC-WMCO 2,9 (12X3,5) RD	144
0825452	UC-EMP (27X27) YE	200	0826242	SD-WMS 10 (NU)R YE	185	0827007	UC-WMC 5,6 (23X8) GN CUS	139	0827565	UC-WMCO 2,9 (12X3,5) OG	144
0825453	UC-EMP (27X27) SR	200	0826255	SD-WMS 10 (CH)R YE	185	0827008	UC-WMC 5,6 (23X8) OG CUS	139	0827566	UC-WMCO 2,9 (12X3,5) VT	144
0825457	UC-EMP (49X15)	199	0826268	SD-WMS 10 (SY)R YE	185	0827009	UC-WMC 5,6 (23X8) RD CUS	139	0827573	UC-WMCO 2,9 (12X3,5) YE	145
0825458	UC-EMP (49X15) YE	199	0826271	SD-WMS 10 (NEUTRAL)R YE	185	0827010	UC-WMC 5,6 (23X8) VT CUS	139	0827574	UC-WMCO 2,9 (12X3,5) BU	145
0825459	UC-EMP (49X15) SR	199	0826323	SD-WMS 10 (SY)R BU	185	0827011	UC-WMC 5,6 (23X8) YE CUS	139	0827575	UC-WMCO 2,9 (12X3,5) GN	145
0825463	UC-EMLP (22X22)	196	0826336	SD-WMS 10 (SY)R RD	185	0827012	UC-WMC 5,6 (30X8) CUS	139	0827576	UC-WMCO 2,9 (12X3,5) RD	145
0825464	UC-EMLP (22X22) YE	196	0826352	SD-WMS 16 (NU) YE	183	0827013	UC-WMC 5,6 (30X8) BU CUS	139	0827577	UC-WMCO 2,9 (12X3,5) OG	145
0825465	UC-EMLP (22X22) SR	196	0826365	SD-WMS 16 (CH) YE	183	0827014	UC-WMC 5,6 (30X8) GN CUS	139	0827578	UC-WMCO 2,9 (12X3,5) VT	145
0825469	UC-EMLP (27X12,5)	196	0826378	SD-WMS 16 (SY) YE	183	0827015	UC-WMC 5,6 (30X8) OG CUS	139	0827585	UC-WMCO 3,6 (12X4,5) YE	145
0825470	UC-EMLP (27X12,5) YE	196	0826381	SD-WMS 16 (NEUTRAL) YE	183	0827016	UC-WMC 5,6 (30X8) RD CUS	139	0827586	UC-WMCO 3,6 (12X4,5) BU	145
0825471	UC-EMLP (27X12,5) SR	196	0826394	SD-WMS 16 (NU)	183	0827017	UC-WMC 5,6 (30X8) VT CUS	139	0827587	UC-WMCO 3,6 (12X4,5) GN	145
0825475	UC-EMLP (27X18)	196	0826404	SD-WMS 16 (CH)	183	0827018	UC-WMC 5,6 (30X8) YE CUS	139	0827588	UC-WMCO 3,6 (12X4,5) RD	145
0825476	UC-EMLP (27X18) YE	196	0826417	SD-WMS 16 (SY)	183	0827033	UC-WMT (12X4) CUS	149	0827589	UC-WMCO 3,6 (12X4,5) OG	145
0825477	UC-EMLP (27X18) SR	196	0826420	SD-WMS 16 (NEUTRAL)	183	0827035	UC-WMT (12X4) RD CUS	149	0827590	UC-WMCO 3,6 (12X4,5) VT	145
0825481	UC-EMLP (27X27)	196	0826433	SD-WMS 16 (SY) BU	183	0827036	UC-WMT (12X4) OG CUS	149	0827597	UC-WMCO 3,6 (12X4,5) YE	145
0825482	UC-EMLP (27X27) YE	196	0826446	SD-WMS 16 (SY) RD	183	0827037	UC-WMT (12X4) YE CUS	149	0827598	UC-WMCO 3,6 (12X4,5) BU	145
0825483	UC-EMLP (27X27) SR	196	0826462	SD-WMS 3 TOOL	181	0827038	UC-WMT (12X4) VT CUS	149	0827599	UC-WMCO 3,6 (12X4,5) GN	145
0825487	UC-EM (10X7)	202	0826475	SD-WMS 5 TOOL	182	0827039	UC-WMT (12X4) BU CUS	149	0827600	UC-WMCO 3,6 (12X4,5) RD	145
0825488	UC-EM (10X7) TQ	202	0826488	SD-WMS 3 STRIP-MAG	186	0827040	UC-WMT (12X4) GN CUS	149	0827601	UC-WMCO 3,6 (12X4,5) OG	145
0825491	UC-EM (10X8)	202	0826491	SD-WMS 5 STRIP-MAG	187	0827076	PATG 0/12	190	0827602	UC-WMCO 3,6 (12X4,5) VT	145
0825492	UC-EM (10X8) TQ	202	0826501	SD-WMS CASE	184	0827077	PATG 1/12	190	0827623	UC-EM (10X7) CUS	203
0825495	UC-EM (17,5X7,5)	202	0826514	SD-WMTBS (S) YE	188	0827078	PATG 2/12	190	0827624	UC-EM (10X8) CUS	203
0825497	UC-EM (18X8)	202	0826527	SD-WMTBS (NU) CC	188	0827079	PATG 3/12	190	0827625	UC-EM (17,5X7,5) CUS	203
0825499	UC-EM (20X7)	202	0826530	SD-WMTBS (70X10)	188	0827080	PATG 4/12	190	0827626	UC-EMP (17X15) CUS	199
0825500	UC-EM (20X7) TQ	202	0826543	SD-WMTBS (100X10)	188	0827081	PATO 1/12	191	0827627	UC-EM (18X8) CUS	203
0825503	UC-EM (20X9)	202	0826556	SD-WMTBS (NU) VA	189	0827082	PATO 2/12	191	0827628	UC-EM (20X7) CUS	203
0825504	UC-EM (20X9) TQ	202	0826569	SD-WMTBS (30X10) VA	189	0827083	EMLP (17X7)R CUS	216	0827629	UC-EM (20X9) CUS	203
0825507	UC-EM (21X8)	202	0826572	SD-WMTB (47X10) VA	189	0827092	UC-WMCO 1,6 (12X3)	142	0827630	UC-EM (17X15) CUS	203
0825528	EMLP (22X22)R SR	216	0826585	SD-WMTB (70X10) VA	189	0827106	UC-WMCO 1,6 (21X3)	143	0827631	UC-EMP (27X8) CUS	201
0825544	SD-WMS 3 (NU) YE	181	0826598	SD-WMTB (92X10) VA	189	0827120	UC-WMCO 2,1 (12X3)	143	0827632	UC-EMP (27X12,5) CUS	201
0825557	SD-WMS 3 (CH) YE	181	0826608	SD-WMTB (111X10) VA	189	0827134	UC-WMCO 2,1 (21X3)	143	0827633	UC-EMP (27X15) CUS	199
0825650	SD-WMS 3 (SY) YE	181	0826611	SD-WMTBS (CH) YE	188	0827148	UC-WMCO 2,9 (12X3,5)	144	0827634	UC-EMP (17X15) CUS	201
0825573	SD-WMS 3 (NEUTRAL) YE	181	0826624	SD-WMTBS (SY) YE	188	0827162	UC-WMCO 2,9 (21X3,5)	145	0827635	UC-EMP (27X27) CUS	201
0825586	SD-WMS 3 (NU)	181	0826637	SD-WMTBS (NEUTRAL) CC	188	0827176	UC-WMCO 3,6 (12X4,5)	145	0827636	UC-EMP (49X15) CUS	199
0825599	SD-WMS 3 (CH)	181	0826640	SD-WMTBS (CH) VA	189	0827190	UC-WMCO 3,6 (21X4,5)	145	0827637	UC-EM (20X9) YE	202
0825609	SD-WMS 3 (SY)	181	0826653	SD-WMTBS (SY) VA	189	0827445	CARRIER-EMP 22 (27X8)	228	0827638	UC-EMP (17X15) YE CUS	199
0825612	SD-WMS 3 (NEUTRAL)	181	0826666	SD-WMTBS (NEUTRAL) VA	189	0827446	CARRIER-EMP 22 (27X12,5)	228	0827639	UC-EM (20X9) YE CUS	203
0825625	SD-WMS 3 (SY) BU	181	0826685	UC-EMP (60X15) YE CUS	199	0827447	CARRIER-EMP 22 (27X15)	228	0827640	UC-EMP (27X8) YE CUS	201
0825638	SD-WMS 3 (SY) RD	181	0826687	UC-EMP (60X30) YE CUS	199	0827448	CARRIER-EMP 22 (27X18)	228	0827641	UC-EMP (27X12,5) YE CUS	201
0825654	SD-WMS 3 (NU)R YE	184	0826773	UC-WMC 3,1 (15X4) VT CUS	137	0827449	CARRIER-EMP 22 (27X27)	228	0827642	UC-EMP (27X15) YE CUS	199
0825667	SD-WMS 3 (CH)R YE	184	0826775	UC-WMC 3,1 (23X4) VT CUS	137	0827450	CARRIER-EMP (17X15)	228	0827643	UC-EMP (27X18) YE CUS	201
0825670	SD-WMS 3 (SY)R YE	184	0826777	UC-WMC 3,1 (30X4) VT CUS	137	0827451	CARRIER-EMP (27X15)	228	0827644	UC-EMP (27X27) YE CUS	201
0825683	SD-WMS 3 (NEUTRAL)R YE	184	0826779	UC-WMC 4,4 (15X5,5) VT CUS	138	0827452	CARRIER-EMP (49X15)	228	0827645	UC-EMP (49X15) YE CUS	199
0825735	SD-WMS 3 (SY)R BU	184	0826781	UC-WMC 4,4 (23X5,5) VT CUS	138	0827453	CARRIER-EMP (60X15)	228	0827647	UC-EMP (60X15) SR	199
0825748	SD-WMS 3 (SY)R RD	184	0826783	UC-WMC 4,4 (30X5,5) VT CUS	139	0827454	CARRIER-EMP (60X30)	228	0827648	UC-EMP (60X30) SR	199
0825764	SD-WMS 3 (NU)S YE	186	0826785	UC-WMC 7,5 (23X8) VT CUS	140	0827464	ZBF 16:UNPRINTED	71	0827649	UC-EMP (17X15) SR CUS	199
0825777	SD-WMS 3 (CH)S YE	186	0826787	UC-WMC 7,5 (30X8) VT CUS	141	0827465	ZBF 16 CUS	71	0827651	UC-EMP (27X8) SR CUS	201
0825780	SD-WMS 3 (SY)S YE	186	0826789	UC-WMT (10X4) VT CUS	148	0827467	EMLP (27X27)R SR	216	0827652	UC-EMP (27X12,5) SR CUS	201
0825793	SD-WMS 3 (NEUTRAL)S YE	186	0826791	UC-WMT (15X4) VT CUS	149	0827469	EMLP (27X27)R SR CUS	216	0827653	UC-EMP (27X15) SR CUS	199
0825803	SD-WMS 3 (SY)S BU	186	0826793	UC-WMT (18X4) VT CUS	149	0827490	UC-EM (17,5X9)	202	0827654	UC-EMP (27X18) SR CUS	201
0825816	SD-WMS 3 (SY)S RD	186	0826795	UC-WMT (23X4) VT CUS	150	0827492	UC-EM (19X9)	202	0827655	UC-EMP (27X27) SR CUS	201
0825832	SD-WMS 5 (NU) YE	182	0826797	UC-WMT (30X4) VT CUS	150	0827494	UC-EM (17,5X9) YE	202	0827656	UC-EMP (49X15) SR CUS	199
0825845	SD-WMS 5 (CH) YE	182	0826799	UC-WMTBA (24X5) GN CUS	152	0827496	UC-EM (19X9) YE	202	0827657	UC-EMP (60X15) SR CUS	199
0825858	SD-WMS 5 (SY) YE	182	0826800	UC-WMTBA (24X5) OG CUS	152	0827513	UC-WMCO 1,6 (12X3) GN	142	0827658	UC-EMP (60X30) SR CUS	199
0825861	SD-WMS 5 (NEUTRAL) YE	182	0826801	UC-WMTBA (24X5) VT CUS	152	0827514	UC-WMCO 1,6 (12X3) BU	142	0827659	UC-EM (10X7) TQ CUS	203
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0827748	UC-WMCO 4.9 (21X5) YE	146	0828215	UC1-TMF 8 OG	101	0828747	UCT-TMF 6 YE	77	0828893	US-EMLP (27X15) YE	204
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0827753	UC-WMCO 4.9 (21X5) VT	146	0828239	UC-EM (17,5X9) YE CUS	203	0828765	US-WMT (10X4)	155	0828898	US-EMLP (27X27) SR	205
0827803	UC-WMCO 2,1 TOOL	142	0828240	UC-EM (19X9) CUS	203	0828766	US-WMT (12X4)	156	0828899	US-EMLP (35X9) YE	205
0827804	UC-WMCO 3,6 TOOL	144	0828241	UC-EM (19X9) YE CUS	203	0828767	US-WMT (15X4)	156	0828900	SD-WMS 5 (NEUTRAL)	182
0827805	UC-WMCO 5,8 TOOL	146	0828318	UC1-TM 5 RD CUS	98	0828768	US-WMT (18X4)	157	0828901	US-EMLP (49X15) YE	205
0827807	UC-WMCO TOOL SET	142	0828319	UC1-TM 5 OG CUS	98	0828769	US-WMT (23X4)	157	0828902	US-EMLP (49X15) SR	205
0827856	THERMOMARK-RIBBON 55-WMSHF	36	0828320	UC1-TM 5 YE CUS	98	0828774	US-WMT (30X4)	157	0828903	US-EMLP (60X15) YE	205
0827885	UC-EMLP (17X15)	196	0828321	UC1-TM 5 BU CUS	98	0828771	US-WMTB (24X5)	158	0828904	US-EMLP (60X15) SR	205
0827886	UC-EMLP (17X15) YE	196	0828322	UC1-TM 5 GN CUS	98	0828772	US-WMTB (29X8)	158	0828905	US-EMLP (60X30) YE	205
0827887	UC-EMLP (17X15) SR	196	0828323	UC1-TM 6 RD CUS	99	0828773	US-WMTB (44X15)	158	0828906	UC-EMLP (60X30) SR	205
0827903	UC-EMLP (49X15)	196	0828324	UC1-TM 6 OG CUS	99	0828774	US-EMP (17X15)	208	0828907	US-EMLP (85,6X54) YE	205
0827904	UC-EMLP (49X15) YE	196	0828325	UC1-TM 6 YE CUS	99	0828775	US-EMP (27X8)	208	0828908	US-EMLP (85,6X54) SR	205
0827905	UC-EMLP (49X15) SR	196	0828326	UC1-TM 6 BU CUS	99	0828776	US-EMP (27X12,5)	208	0828909	US-EMLP (100X60) YE	205
0827941	UC-EMLP (17X15) CUS	197	0828327	UC1-TM 6 GN CUS	99	0828777	US-EMP (27X15)	208	0828910	US-EMLP (100X60) SR	205
0827942	UC-EMLP (17X15) SR CUS	197	0828328	UC1-TM 8 RD CUS	99	0828778	US-EMP (27X18)	208	0828913	SD-WMS 5 (SY) BU	182
0827943	UC-EMLP (17X15) YE CUS	197	0828329	UC1-TM 8 OG CUS	99	0828779	US-EMP (27X27)	208	0828926	SD-WMS 5 (SY) RD	182
0827947	UC-EMLP (49X15) CUS	197	0828330	UC1-TM 8 YE CUS	99	0828780	US-EMP (49X15)	208	0828927	US-EMSP (50X30) YE	210
0827948	UC-EMLP (49X15) SR CUS	197	0828331	UC1-TM 8 BU CUS	99	0828781	US-EMP (60X15)	208	0828928	US-EMSP (50X30) SR	210
0827949	UC-EMLP (49X15) YE CUS	197	0828332	UC1-TM 8 GN CUS	99	0828782	US-EMP (60X30)	208	0828929	US-EMSP (75,6X54) YE	210
0828004	UC-WMC 1,9 (15X4)	136	0828333	UC1-TMF 4 RD CUS	100	0828783	US-EMP (85,6X54)	210	0828930	US-EMSP (75,6X54) SR	210
0828006	UC-WMC 1,9 (15X4) RD	136	0828334	UC1-TMF 4 OG CUS	100	0828786	US-EMSP (60X30)	208	0828931	US-EMSP (90X60)	210
0828007	UC-WMC 1,9 (15X4) OG	136	0828335	UC1-TMF 4 YE CUS	100	0828787	US-EMSP (75,6X54)	210	0828932	US-EMSP (90X60) SR	210
0828008	UC-WMC 1,9 (15X4) YE	136	0828336	UC1-TMF 4 BU CUS	100	0828788	US-EMSP (90X60)	210	0828952	US-WMT (10X4) YE	155
0828009	UC-WMC 1,9 (15X4) VT	136	0828337	UC1-TMF 4 GN CUS	100	0828789	US-EMLP (11X9)	204	0828953	US-WMT (12X4) YE	156
0828010	UC-WMC 1,9 (15X4) RD	136	0828338	UC1-TMF 5 RD CUS	101	0828790	US-EMLP (15X5)	204	0828954	US-WMT (15X4) YE	156
0828012	UC-WMC 1,9 (15X4) CUS	136	0828339	UC1-TMF 5 OG CUS	101	0828792	US-EMLP (17X7)	204	0828955	US-WMT (18X4) YE	157
0828013	UC-WMC 1,9 (15X4) RD CUS	136	0828340	UC1-TMF 5 YE CUS	101	0828793	US-EMLP (17X15)	204	0828956	US-WMT (23X4) YE	157
0828014	UC-WMC 1,9 (15X4) OG CUS	136	0828341	UC1-TMF 5 BU CUS	101	0828795	US-EMLP (20X9)	204	0828957	US-WMT (30X4) YE	157
0828015	UC-WMC 1,9 (15X4) YE CUS	136	0828342	UC1-TMF 5 GN CUS	101	0828796	US-EMLP (22X22)	204	0828958	US-WMTB (24X5) YE	158
0828016	UC-WMC 1,9 (15X4) VT CUS	136	0828343	UC1-TMF 6 RD CUS	101	0828797	US-EMLP (27X8)	204	0828959	US-WMTB (29X8) YE	158
0828017	UC-WMC 1,9 (15X4) BU CUS	136	0828344	UC1-TMF 6 OG CUS	101	0828798	US-EMLP (27X12,5)	204	0828960	UC-WMTB (44X15) YE	158
0828059	PATG 5/18	190	0828345	UC1-TMF 6 YE CUS	101	0828799	US-EMLP (27X15)	204	0828984	CARRIER-EMLP 22 (27X8)	229
0828062	PATG 6/18	190	0828346	UC1-TMF 6 BU CUS	101	0828800	US-EMLP (27X18)	205	0828985	CARRIER-EMLP 22 (27X12,5)	229
0828088	UC-EMLP (60X15) SR	196	0828347	UC1-TMF 6 GN CUS	101	0828801	US-EMLP (27X27)	205	0828986	CARRIER-EMLP 22 (27X15)	229
0828090	UC-EMLP (60X15) SR CUS	196	0828348	UC1-TMF 8 RD CUS	101	0828802	US-EMLP (35X9)	205	0828987	CARRIER-EMLP 22 (27X18)	229
0828091	UC-EMLP (60X30) SR	197	0828349	UC1-TMF 8 OG CUS	101	0828803	US-EMLP (49X15)	205	0828988	CARRIER-EMLP 22 (27X27)	229
0828093	UC-EMLP (60X30) SR CUS	197	0828350	UC1-TMF 8 YE CUS	101	0828804	US-EMLP (60X15)	205	0829032	UC-WMCO 1.6 (12X3) CUS	142
0828094	UC-EMLP (11X9) SR	196	0828351	UC1-TMF 8 BU CUS	101	0828805	US-EMLP (60X30)	205	0829033	UC-WMCO 1.6 (12X3) YE CUS	142
0828095	UC-EMLP (15X5) SR	196	0828352	UC1-TMF 8 GN CUS	101	0828806	US-EMLP (85,6X54)	205	0829034	UC-WMCO 1.6 (12X3) BU CUS	142
0828096	UC-EMLP (17X9) SR	196	0828376	UC-WMTB (44X15)	151	0828807	US-EMLP (100X60)	205	0829035	UC-WMCO 1.6 (12X3) GN CUS	142
0828097	UC-EMLP (20X8) SR	196	0828377	UC-WMTB (44X15) RD	151	0828842	US-EMP (17X15) YE	208	0829036	UC-WMCO 1.6 (12X3) RD CUS	142
0828098	UC-EMLP (11X9) SR CUS	197	0828378	UC-WMTB (44X15) OG	151	0828843	US-EMP (17X15) SR	208	0829037	UC-WMCO 1.6 (12X3) OG CUS	142
0828099	UC-EMLP (15X5) SR CUS	197	0828379	UC-WMTB (44X15) YE	151	0828844	US-EMP (27X8) YE	208	0829038	UC-WMCO 1.6 (12X3) VT CUS	142
0828100	UC-EMLP (17X9) SR CUS	197	0828380	UC-WMTB (44X15) VT	151	0828845	US-EMP (27X8) SR	208	0829039	UC-WMCO 1.6 (12X3) CUS	143
0828101	UC-EMLP (20X8) SR CUS	197	0828381	UC-WMTB (44X15) BU	151	0828846	US-EMP (27X12,5) YE	208	0829040	UC-WMCO 1.6 (12X3) YE CUS	143
0828127	UC1-TMF 5 YE	101	0828382	UC-WMTB (44X15) GN	151	0828847	US-EMP (27X12,5) SR	208	0829041	UC-WMCO 1.6 (12X3) BU CUS	143
0828185	UC1-TM 5 RD	98	0828383	UC-WMTB (44X15) SR	151	0828848	US-EMP (27X15) YE	208	0829042	UC-WMCO 1.6 (12X3) GN CUS	143
0828186	UC1-TM 5 OG	98	0828384	UC-WMTB (44X15) BN	151	0828849	US-EMP (27X15) SR	208	0829043	UC-WMCO 1.6 (12X3) RD CUS	143
0828187	UC1-TM 5 YE	98	0828493	KMV CUS	189	0828850	US-EMP (27X18) YE	208	0829044	UC-WMCO 1.6 (12X3) OG CUS	143
0828188	UC1-TM 5 BU	98	0828494	KMV 44X9,6 CUS	189	0828851	US-EMP (27X18) SR	208	0829045	UC-WMCO 1.6 (12X3) VT CUS	143
0828189	UC1-TM 5 GN	98	0828554	UC-TMN 10	57	0828852	US-EMP (27X27) YE	208	0829046	UC-WMCO 2.1 (21X3) CUS	143
0828190	UC1-TM 6 RD	99	0828570	UCT-WMS 3,2 (12X4)	154	0828853	US-EMP (27X27) SR	208	0829047	UC-WMCO 2.1 (21X3) YE CUS	143
0828191	UC1-TM 6 OG	99	0828571	UCT-WMS 4,7 (12X5,5)	154	0828854	US-EMP (49X15) YE	208	0829048	UC-WMCO 2.1 (21X3) BU CUS	143
0828192	UC1-TM 6 YE	99	0828572	UCT-WMS 3,2 (12X4) YE	154	0828855	US-EMP (49X15) SR	208	0829049	UC-WMCO 2.1 (21X3) GN CUS	143
0828193	UC1-TM 6 BU	99	0828573	UCT-WMS 4,7 (12X5,5) YE	154	0828856	US-EMP (60X15) YE	208	0829050	UC-WMCO 2.1 (21X3) RD CUS	143
0828194	UC1-TM 6 GN	99	0828706	UC-EMSP (50X15)	198	0828857	US-EMP (60X15) SR	208	0829051	UC-WMCO 2.1 (21X3) OG CUS	143
0828195	UC1-TM 8 RD	99	0828707	UC-EMSP (50X15) YE	198	0828858	US-EMP (60X30) YE	208	0829052	UC-WMCO 2.1 (21X3) VT CUS	143
0828196	UC1-TM 8 OG	99	0828708	UC-EMSP (50X15) SR	198	0828859	US-EMP (60X30) SR	208	0829053	UC-WMCO 2.1 (21X3) CUS	143
0828197	UC1-TM 8 YE	99	0828709	UC-EMSP (50X30)	198	0828860	US-EMP (85,6X54) YE	208	0829054	UC-WMCO 2.1 (21X3) YE CUS	143
0828198	UC1-TM 8 BU	99	0828710	UC-EMSP (50X30) YE	198	0828861	US-EMP (85,6X54) SR	208	0829055	UC-WMCO 2.1 (21X3) BU CUS	143

Order No.Type		Page	Order No.Type	Page	Order No.Type	Page	Order No.Type	Page			
0829061	UC-WMCO 2,9 (12X3,5) YE CUS	144	0829167	UCT-TM 8 BU	74	0829250	UCT2-TM 5/6 CUS	110	0829486	UCT-TMF 3,5	76
0829062	UC-WMCO 2,9 (12X3,5) BU CUS	144	0829168	UCT-TM 8 GN	74	0829251	UCT3-TM 5	111	0829487	UCT-TMF 3,5 YE	76
0829063	UC-WMCO 2,9 (12X3,5) GN CUS	144	0829169	UCT-TM 10 RD	75	0829252	UCT3-TM 6	111	0829505	UCT-TM 3,5 RD	72
0829064	UC-WMCO 2,9 (12X3,5) RD CUS	144	0829170	UCT-TM 10 OG	75	0829255	US-TM 100	80	0829506	UCT-TM 3,5 OG	72
0829065	UC-WMCO 2,9 (12X3,5) OG CUS	144	0829171	UCT-TM 10 VT	75	0829260	US-TMF 100	81	0829507	UCT-TM 3,5 VT	72
0829066	UC-WMCO 2,9 (12X3,5) VT CUS	144	0829172	UCT-TM 10 BU	75	0829268	US2-TM 100	114	0829508	UCT-TM 3,5 BU	72
0829067	UC-WMCO 2,9 (21X3,5) GN CUS	145	0829173	UCT-TM 10 GN	75	0829273	US-WMT (10X4) RD	155	0829509	UCT-TM 3,5 GN	72
0829068	UC-WMCO 2,9 (21X3,5) YE CUS	145	0829174	UCT-TM 12 RD	75	0829274	US-WMT (10X4) OG	155	0829510	UCT-TM 7,62 RD	74
0829069	UC-WMCO 2,9 (21X3,5) BU CUS	145	0829175	UCT-TM 12 OG	75	0829276	US-WMT (10X4) VT	155	0829511	UCT-TM 7,62 OG	74
0829070	UC-WMCO 2,9 (21X3,5) RD CUS	145	0829176	UCT-TM 12 VT	75	0829277	US-WMT (10X4) BU	155	0829512	UCT-TM 7,62 VT	74
0829071	UC-WMCO 2,9 (21X3,5) OG CUS	145	0829177	UCT-TM 12 BU	75	0829278	US-WMT (10X4) GN	155	0829513	UCT-TM 7,62 BU	74
0829072	UC-WMCO 2,9 (21X3,5) VT CUS	145	0829178	UCT-TM 12 GN	75	0829280	US-WMT (12X4) RD	156	0829514	UCT-TM 7,62 GN	74
0829073	UC-WMCO 2,9 (21X3,5) VT CUS	145	0829179	UCT-TM 16 RD	75	0829281	US-WMT (12X4) OG	156	0829515	UCT-TMF 3,5 RD	76
0829074	UC-WMCO 3,6 (12X4,5) CUS	145	0829180	UCT-TM 16 OG	75	0829283	US-WMT (12X4) VT	156	0829516	UCT-TMF 3,5 OG	76
0829075	UC-WMCO 3,6 (12X4,5) YE CUS	145	0829181	UCT-TM 16 VT	75	0829284	US-WMT (12X4) BU	156	0829517	UCT-TMF 3,5 VT	76
0829076	UC-WMCO 3,6 (12X4,5) BU CUS	145	0829182	UCT-TM 16 BU	75	0829285	US-WMT (12X4) GN	156	0829518	UCT-TMF 3,5 BU	76
0829077	UC-WMCO 3,6 (12X4,5) GN CUS	145	0829183	UCT-TM 16 GN	75	0829287	US-WMT (15X4) RD	156	0829519	UCT-TMF 3,5 GN	76
0829078	UC-WMCO 3,6 (12X4,5) OG CUS	145	0829184	UCT-TMF 4 RD	77	0829288	US-WMT (15X4) OG	156	0829520	CARRIER-EMP (1000X15) COVER	230
0829079	UC-WMCO 3,6 (12X4,5) VT CUS	145	0829185	UCT-TMF 4 OG	77	0829290	US-WMT (15X4) VT	156	0829521	US-EMP (100X15)	208
0829080	UC-WMCO 3,6 (12X4,5) VT CUS	145	0829186	UCT-TMF 4 VT	77	0829291	US-WMT (15X4) BU	156	0829522	US-EMP (100X15) YE	208
0829081	UC-WMCO 3,6 (21X4,5) CUS	145	0829187	UCT-TMF 4 BU	77	0829292	US-WMT (15X4) GN	156	0829523	US-EMP (100X15) SR	208
0829082	UC-WMCO 3,6 (21X4,5) OG CUS	145	0829188	UCT-TMF 4 GN	77	0829294	US-WMT (18X4) RD	157	0829520	CARRIER-EMP (1000X15) TR	230
0829083	UC-WMCO 3,6 (21X4,5) BU CUS	145	0829189	UCT-TMF 5 RD	77	0829295	US-WMT (18X4) OG	157	0829535	EMPPR (27X15)	229
0829084	UC-WMCO 3,6 (21X4,5) GN CUS	145	0829190	UCT-TMF 5 OG	77	0829297	US-WMT (18X4) VT	157	0829536	EMPPR (27X18)	229
0829085	UC-WMCO 3,6 (21X4,5) RD CUS	145	0829191	UCT-TMF 5 VT	77	0829298	US-WMT (18X4) BU	157	0829542	THERMOMARK-RIBBON 110 GN	33
0829086	UC-WMCO 3,6 (21X4,5) OG CUS	145	0829192	UCT-TMF 5 BU	77	0829299	US-WMT (18X4) GN	157	0829543	THERMOMARK-RIBBON 110 RD	33
0829087	UC-WMCO 3,6 (21X4,5) VT CUS	145	0829193	UCT-TMF 5 GN	77	0829301	US-WMT (23X4) RD	157	0829544	THERMOMARK-RIBBON 110 BU	33
0829088	UC-WMCO 4,9 (12X5) CUS	146	0829194	UCT-TMF 6 RD	77	0829302	US-WMT (23X4) OG	157	0829545	CARRIER/EMP (1000X15) GY	230
0829089	UC-WMCO 4,9 (12X5) YE CUS	146	0829195	UCT-TMF 6 OG	77	0829304	US-WMT (23X4) VT	157	0829560	CARRIER/EMP (1000X15) TR	230
0829090	UC-WMCO 4,9 (12X5) BU CUS	146	0829196	UCT-TMF 6 VT	77	0829305	US-WMT (23X4) BU	157	0829581	UCT-TM 3,5 CUS	72
0829091	UC-WMCO 4,9 (12X5) GN CUS	146	0829197	UCT-TMF 6 BU	77	0829306	US-WMT (23X4) GN	157	0829582	UCT-TM 3,5 RD CUS	72
0829092	UC-WMCO 4,9 (12X5) RD CUS	146	0829198	UCT-TMF 6 GN	77	0829308	US-WMT (30X4) RD	157	0829583	UCT-TM 3,5 OG CUS	72
0829093	UC-WMCO 4,9 (12X5) OG CUS	146	0829199	UCT-TMF 8 RD	78	0829309	US-WMT (30X4) OG	157	0829584	UCT-TM 3,5 YE CUS	72
0829094	UC-WMCO 4,9 (12X5) VT CUS	146	0829200	UCT-TMF 8 OG	78	0829311	US-WMT (30X4) BU	157	0829585	UCT-TM 3,5 VT CUS	72
0829095	UC-WMCO 4,9 (21X5) CUS	146	0829201	UCT-TMF 8 VT	78	0829312	US-WMT (30X4) VT	157	0829586	UCT-TM 3,5 BU CUS	72
0829096	UC-WMCO 4,9 (21X5) YE CUS	146	0829202	UCT-TMF 8 BU	78	0829313	US-WMT (30X4) GN	157	0829587	UCT-TM 3,5 GN CUS	72
0829097	UC-WMCO 4,9 (21X5) BU CUS	146	0829203	UCT-TMF 8 GN	78	0829320	US-WMTB (24X5) RD	158	0829588	UCT-TM 4 CUS	73
0829098	UC-WMCO 4,9 (21X5) GN CUS	146	0829204	UCT-TMF 10	79	0829321	US-WMTB (24X5) OG	158	0829589	UCT-TM 4 RD CUS	73
0829099	UC-WMCO 4,9 (21X5) RD CUS	146	0829205	UCT-TMF 10 RD	79	0829323	US-WMTB (24X5) VT	158	0829590	UCT-TM 4 OG CUS	73
0829100	UC-WMCO 4,9 (21X5) OG CUS	146	0829206	UCT-TMF 10 OG	79	0829324	US-WMTB (24X5) BU	158	0829591	UCT-TM 4 YE CUS	73
0829101	UC-WMCO 4,9 (21X5) VT CUS	146	0829207	UCT-TMF 10 YE	79	0829325	US-WMTB (24X5) GN	158	0829592	UCT-TM 4 VT CUS	73
0829103	UC-EMSP (50X15) CUS	198	0829208	UCT-TMF 10 VT	79	0829327	US-WMTB (29X8) RD	158	0829593	UCT-TM 4 BU CUS	73
0829104	UC-EMSP (50X15) YE CUS	198	0829209	UCT-TMF 10 BU	79	0829328	US-WMTB (29X8) OG	158	0829594	UCT-TM 4 GN CUS	73
0829105	UC-EMSP (50X15) SR CUS	198	0829210	UCT-TMF 10 GN	79	0829330	US-WMTB (29X8) VT	158	0829595	UCT-TM 5 CUS	73
0829106	UC-EMSP (50X30) CUS	198	0829211	UCT-TMF 12 YE	79	0829331	US-WMTB (29X8) BU	158	0829596	UCT-TM 5 RD CUS	73
0829107	UC-EMSP (50X30) YE CUS	198	0829212	UCT-TMF 12 RD	79	0829332	US-WMTB (29X8) GN	158	0829597	UCT-TM 5 OG CUS	73
0829108	UC-EMSP (50X30) SR CUS	198	0829213	UCT-TMF 12 OG	79	0829334	US-WMTB (44X15) RD	158	0829598	UCT-TM 5 YE CUS	73
0829109	UC-TMN 10 CUS	57	0829214	UCT-TMF 12	79	0829335	US-WMTB (44X15) OG	158	0829599	UCT-TM 5 VT CUS	73
0829127	ZB 9:UNBEDRUCKT	62	0829215	UCT-TMF 12 VT	79	0829337	US-WMTB (44X15) VT	158	0829600	UCT-TM 5 BU CUS	73
0829128	ZB 9 CUS	62	0829216	UCT-TMF 12 BU	79	0829338	US-WMTB (44X15) BU	158	0829601	UCT-TM 5 GN CUS	73
0829129	ZBF 9:UNBEDRUCKT	69	0829217	UCT-TMF 12 GN	79	0829339	US-WMTB (44X15) GN	158	0829602	UCT-TM 6 CUS	73
0829130	ZBF 9 CUS	69	0829218	UCT-TMF 16	79	0829365	CARRIER-EMP (85,6X54)	228	0829603	UCT-TM 6 RD CUS	73
0829131	ZB 13:UNBEDRUCKT	63	0829219	UCT-TMF 16 RD	79	0829366	CARRIER-EMP (1000X15) GY	230	0829604	UCT-TM 6 OG CUS	73
0829132	ZB 13 CUS	63	0829220	UCT-TMF 16 OG	79	0829379	UC-WMTB (44X15) CUS	151	0829605	UCT-TM 6 YE CUS	73
0829133	ZBF 13:UNBEDRUCKT	70	0829221	UCT-TMF 16 YE	79	0829391	ZB 17:UNBEDRUCKT	64	0829606	UCT-TM 6 VT CUS	73
0829134	ZBF 13 CUS	70	0829223	UCT-TMF 16 BU	79	0829392	ZBF 3,5:UNBEDRUCKT	66	0829607	UCT-TM 6 BU CUS	73
0829142	UCT-TM 10	75	0829224	UCT-TMF 16 GN	79	0829393	ZB 17 CUS	64	0829608	UCT-TM 6 GN CUS	73
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3240283 CD 30X100	379	3240504 RVT-AL/ST 3/6	254	3240666 AI 1,5-8 BK-B 2500	311	5145517 P1 GRAVER 0.7	39
3240284 CD WR	377	3240505 RVT-AL/ST 3/8	254	3240667 AI 2,5-8 BU-B 1500	311	5145520 P1 GRAVER 1.0	39
3240285 CD COVER 25	379	3240506 RVT-AL/ST 3/10	254	3240668 AI-TWIN 2X0,75-8 BU	310	5145533 P1 GRAVER SET	39
3240286 CD COVER 40	379	3240507 RVT-AL/ST 3/12	254	3240669 AI-TWIN 2X2,5-10 GY	310	5145546 P1 ENGRAVING UNIT	39
3240287 CD COVER 60	379	3240509 RVT-AL/ST 3,2/6	254			5145559 P1 ENGRAVING VC BAG	39
3240288 CD COVER 80	379	3240510 RVT-AL/ST 3,2/8	254			5145711 CMS-P1-M/GPE ENGRAVING	40
3240289 CD COVER 100	379	3240511 RVT-AL/ST 3,2/10	254			5146004 CLIP-PROJECT ADVANCED	24
3240290 CD COVER 120	379	3240512 RVT-AL/ST 3,2/12	254			5146053 CLIP-PROJECT PROFESSIONAL	25
3240294 CD 40X100	379	3240513 RVT-AL/ST 4/6	254	5021110 A/U CM	351	5146079 P1 UC-MAG 1	40
3240295 CD COVER 30	379	3240514 RVT-AL/ST 4/8	254	5022630 AP 2-TU	351	5146082 P1 UC-MAG 2	40
3240301 CD 25X25 BU	379	3240515 RVT-AL/ST 4/10	254	5022656 AP 3-TU	351	5146095 P1 UC-MAG 3	40
3240302 CD 25X40 BU	379	3240516 RVT-AL/ST 4/12	254	5022672 AP 3-TNS 35	351	5146105 P1 UC-MAG 4	40
3240303 CD 25X60 BU	379	3240517 RVT-AL/ST 4/14	254	5022685 AP-ES	351	5146118 P1 UC-MAG 5	40
3240304 CD 25X80 BU	379	3240518 RVT-AL/ST 4,8/6	254	5022795 APK 1	352	5146121 P1 UC-MAG 6	40
3240305 CD 30X40 BU	379	3240519 RVT-AL/ST 4,8/8	254	5022805 APK-TU	352	5146147 THERMOMARK W2	37
3240306 CD 30X60 BU	379	3240520 RVT-AL/ST 4,8/10	254	5022818 APK-HP	352	5146231 THERMOMARK X1.2	36
3240307 CD 30X80 BU	379	3240521 RVT-AL/ST 4,8/12	254	5022876 AP 3 CM	351	5146244 THERMOMARK X1-CUTTER/P	36
3240308 CD 30X100 BU	379	3240522 RVT-AL/ST 4,8/16	254	5022889 AP 2 CM	351	5146309 THERMOMARK-ERH 500	33
3240309 CD 40X40 BU	379	3240529 C-SCFMI 1,5/6,3X0,8	322	5031171 SS-ZB WH	179	5146338 THERMOMARK W2-CASE	37
3240310 CD 40X60 BU	379	3240530 C-SCFMI 2,5/6,3X0,8	322	5031388 BMK 20X 8 YE	225	5146341 THERMOMARK X1.2-KIT	36
3240311 CD 40X80 BU	379	3240531 C-BCSI 1,5/9X2,8	319	5031582 BMK 19X11 YE	225	5146422 THERMOMARK ROLL-CUTTER	33
3240312 CD 40X100 BU	379	3240532 C-BCSI 2,5/9X2,8	319	5031605 BMK 15X 9 YE	225	5146435 THERMOMARK ROLL-CUTTER/P	33
3240313 CD 60X40 BU	379	3240533 C-BCSI 6/18X4,5	319	5031650 SS-ZB YE	179	5146448 THERMOMARK ROLL-ERH	33
3240314 CD 60X60 BU	379	3240534 C-SCFFI 1,5/2,8X0,5	322	5031676 BMK 38X11 YE	225	5146451 THERMOMARK CARD-US-MAG1	32
3240315 CD 60X80 BU	379	3240535 C-SCFFI 1,5/2,8X0,8	322	5032138 BMKL 20X 8 YE	224	5146464 THERMOMARK CARD	32
3240316 CD 60X100 BU	379	3240536 C-SCFFI 1,5/4,8X0,5	322	5032170 BMKL 18X 8 YE	224	5146477 THERMOMARK ROLL	33
3240317 CD 80X25 BU	379	3240537 C-SCFFI 1,5/4,8X0,8	322	5032280 BMKL 20X 8 WH	224	5146480 THERMOMARK CARD-UCT-MAG1	32
3240318 CD 80X40 BU	379	3240538 C-SCFFI 1,5/6,3X0,8	322	5032293 BMKL 18X 6 WH	224	5146563 THERMOMARK CARD-UCT-MAG2	32
3240320 CD 80X80 BU	379	3240539 C-SCFFI 2,5/4,8X0,5	322	5032329 BMKL 18X 8 WH	224	5146567 BLUEMARK MAG AI-WM	147
3240321 CD 80X100 BU	379	3240540 C-SCFFI 2,5/4,8X0,8	322	5032332 BMKL 25X 8 WH	224	5146568 P1 UC-MAG 7	40
3240322 CD 100X40 BU	379	3240541 C-SCFFI 6/6,3X0,8	322	5032361 BMKL 12X12 WH	224	5146600 CMS-INK-EK-C 5	41
3240323 CD 100X60 BU	379	3240542 AI-WM 0,5-8 WH	147	5032374 BMKL 25X12 WH	224	5146601 CMS-DISPOSABLE-PEN 0,25 EK	41
3240324 CD 100X80 BU	379	3240543 AI-WM 0,75-8 GY	147	5032387 BMKL 50X12 WH	224	5146602 CMS-DISPOSABLE-PEN 0,35 EK	41
3240325 CD 100X100 BU	379	3240544 AI-WM 1-8 RD	147	5032400 BSKL 64X34 WH	224	5146613 THERMOMARK CARD-UCT-MAG3	32
3240326 CD 120X60 BU	379	3240545 AI-WM 1,5-8 WH	147	5032439 SSMK 60X18	232	5146614 THERMOMARK CARD-UCT-MAG4	32
3240327 CD 120X80 BU	379	3240546 C-BCSI 6/10X2,8	319	5032442 SSMK 96X30	232	5146615 THERMOMARK CARD-UCT-MAG5	32
3240328 CD COVER 100 BU	379	3240547 C-SCFFI 2,5/6,3X0,8	322	5032455 ES-SSMK-GB 96X30	232	5146616 THERMOMARK CARD-UCT-MAG6	32
3240329 CD COVER 120 BU	379	3240548 RVT-AL/ST 2,4L/8	254	5032468 ES-SSMK-GB 60X18	232	5146640 BLUEMARK MAG AI-WM 2,5	147
3240330 CD COVER 25 BU	379	3240553 RVT-AL/ST 4,8/14	254	5032497 BMKL 15X 9 YE	224	5147010 BLUEMARK CARD SLIDER	31
3240331 CD COVER 30 BU	379	3240568 C-BCI 1,5/4,6	319	5036147 BMKL 18X 6,5 OG	224	5147100 MARKING BOX	34
3240332 CD COVER 40 BU	379	3240569 C-BCI 2,5/4,6	319	5036150 KML 12X 9 WH	163	5147101 MARKING BOX EN	34
3240333 CD COVER 60 BU	379	3240570 C-BCI 6/4,6	319	5036163 KML 25X12 WH	163	5147200 THERMOMARK CARD SET	35
3240334 CD COVER 80 BU	379	3240572 AI-WM 2,5-8 BU	147	5036228 FKML 35X25 WH	163	5147201 THERMOMARK CARD SET EN	35
3240335 CD 80X40	379	3240616 CD 25X25 WH	379	5036231 FKML 47X25 WH	163	5147300 THERMOMARK ROLL SET	35
3240340 CD-HF 25X25	377	3240617 CD 25X40 WH	379	5060883 ZB10/WH-100:UNBEDRUCKT	62	5147301 THERMOMARK ROLL SET EN	35
3240341 CD-HF 25X40	377	3240618 CD 25X60 WH	379	5060896 ZB 8/WH-100:UNBEDRUCKT	61	5147421 BLUEMARK FLUID-CARTRIDGE	31
3240342 CD-HF 25X60	377	3240619 CD 25X80 WH	379	5060906 ZB 5/WH-100:UNBEDRUCKT	59	5147447 BLUEMARK CASE	31
3240343 CD-HF 25X80	377	3240620 CD 30X40 WH	379	5060922 ZB 7,62/WH-100:UNBEDRUCKT	61	5147888 BLUEMARK LED	31
3240344 CD-HF 30X40	377	3240621 CD 30X60 WH	379	5067815 CMS-PEN 0,25	41	5775288 UC-WMTB (52X30)	151
3240345 CD-HF 30X60	377	3240622 CD 30X80 WH	379	5067828 CMS-PEN 0,35	41	5775289 UC-WMTB (52X50)	151
3240346 CD-HF 30X80	377	3240623 CD 30X100 WH	379	5067831 CMS-PEN 0,50	41		
3240347 CD-HF 30X100	377	3240624 CD 40X40 WH	379	5144372 CMS-R-FLUID-MEKX-C2	41		
3240348 CD-HF 40X40	377	3240625 CD 40X60 WH	379	5144385 CMS-R-SET-RO	41		
3240349 CD-HF 40X60	377	3240626 CD 40X80 WH	379	5144615 CMS-P1-PLOTTER	38		
3240350 CD-HF 40X80	377	3240627 CD 40X100 WH	379	5144628 CMS-P1-PLOTTER-KIT	38		
3240351 CD-HF 40X100	377	3240628 CD 60X40 WH	379	5144631 CMS-P1-PLOTTER-CASE	38		



Innovative use of combined heat and power technology when printing this product reduced CO₂ emissions by up to 52% in comparison to conventional methods in Germany.
Dr. Schorb, ifeu-Institut



PHOENIX CONTACT GmbH & Co. KG
32823 Blomberg, Germany
Phone: +49 5235 3-00
Fax: +49 5235 3-4 12 00
www.phoenixcontact.com