


## D-LAN-CAT.5E

Order No.: 2858991

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2858991>

RJ-45 attachment plug with surge protection for LAN interfaces for inserting in the data line, incl. RJ45 cable

### Commercial data

GTIN (EAN)	 4 017918 920463
sales group	J403
Pack	1 pcs.
Customs tariff	85363010
Catalog page information	Page 97 (TT-2005)

### Product notes

WEEE/RoHS-compliant since:  
04/19/2006



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### Technical data

#### General

Housing material	Aluminum, anodized
Color	black
Standards for air and creepage distances	DIN VDE 0110-1 IEC 60664-1: 1992-10

Surge voltage category	II
Pollution degree	2
Ambient temperature (operation)	-40 °C ... 80 °C
Mounting type	Connection-specific intermediate plugging
Design	Attachment plug
Degree of protection	IP20
Direction of action	Line-Line & Line-Shield & Shield-Earth Ground
Width	25.40 mm
Height	25.40 mm
Length	94.00 mm

**Protective circuit**

IEC category	C1
	C2
	C3
	B2
	B3
VDE requirement class	C1
	C2
	C3
	B2
	B3
Maximum continuous voltage $U_C$ (wire-wire)	$\pm 7$ V DC
Maximum continuous voltage $U_C$ (wire-ground)	$\pm 7$ V DC
Nominal current $I_N$	1.5 A (/25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 100$ $\mu$ A
Ground conductor current $I_{PE}$	$\leq 100$ $\mu$ A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Core)	350 A
Nominal discharge surge current $I_n$ (8/20) $\mu$ s (Core-Earth)	2.5 kA
Max. discharge surge current $I_{max}$ (8/20) $\mu$ s maximum (Core-Earth)	2.5 kA (in total)
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Core)	160 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Earth)	160 A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) spike	$\leq 22$ V

Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike	$\leq 80$ V (equipotential bonding lead: 1 m)
Output voltage limitation at 1 kV/ $\mu$ s (Shield-Earth) spike	$\leq 700$ V (equipotential bonding lead: 1 m)
Residual voltage at $I_n$ , (conductor-conductor)	$\leq 45$ V
Residual voltage at $I_n$ , (conductor-ground)	$\leq 45$ V
Residual voltage at $I_n$ , (shield-ground)	$\leq 700$ V
Protection level $U_p$ (Core-Core)	$\leq 50$ V (C1, 500 V/250 A)
	$\leq 20$ V (B3, 2 kV/25 A)
Protection level $U_p$ (Core-Earth)	$\leq 65$ V (C1, 500 V/250 A - PA-Ltg: 1 m)
	$\leq 25$ V (B3, 2 kV/25 A - PA-Ltg: 1 m)
	$\leq 60$ V (C3, 7 kV/90 A - PA-Ltg: 1 m)
Protection level $U_p$ (Shield-Earth)	$\leq 850$ V (C2, 4 kV/2 kA - PA-Ltg: 1 m)
Response time $t_A$ (Core-Core)	$\leq 500$ ns
Response time $t_A$ (Core-Earth)	$\leq 100$ ns
Input attenuation $a_E$ , sym.	1 dB (up to 100 MHz, 100 $\Omega$ system)
Near-end crosstalk attenuation	36 dB (pair 3-6 against pair 4-5 in 100 $\Omega$ system / 100 MHz)
	40 dB (all other pair combinations in 100 $\Omega$ system/100 MHz)
Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system	$\leq 100$ MHz
Capacity (Core-Core)	20 pF (typical)
Capacity (Core-Earth)	1 pF (typical)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (4 kV / 100 A)
	B3 (2 kV/25 A)
	C1 (500 V / 250 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B2 (4 kV / 100 A)
	C1 (500 V/250 A)
	C2 (4 kV / 2 kA)
	B3 (2 kV/25 A)
<b>Connection data</b>	
Connection method	RJ45
Connection type IN	RJ45 female connector
Connection type OUT	RJ45 female connector
Connection method	Network interfaces (e.g. Ethernet, Token Ring and CDDI/FDDI)

**Connection, equipotential bonding**

Connection method	Cable connection
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**Connection, protective circuit**

Standards/regulations	IEC 61643-21
	E VDE 0845-3-1
	DIN EN 50173-1

**Certificates / Approvals**

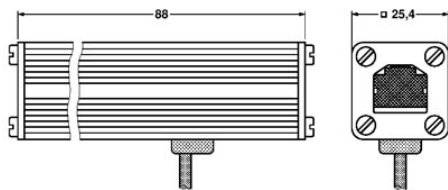


Certification

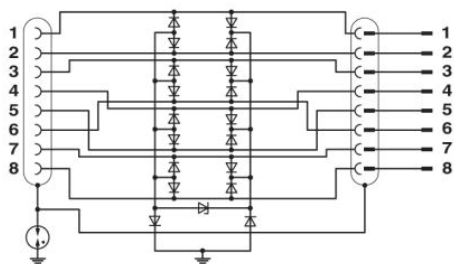
GOST, UL Listed

**Diagrams/Drawings**

Dimensioned drawing



Circuit diagram



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