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## Surge protection device - DT-TELE-RJ45 - 2882925

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Attachment plug with surge protection for analog and digital telecommunications interfaces (VDSL up to 50 Mbps). Connection: RJ45 (RJ12/RJ11) and screw terminal block (COMBICON). Alternatively, can be snapped onto a DIN rail.

### Why buy this product

- For analog and digital (DSL) telecommunications interface
- Connection: RJ45 socket and/or plug-in screw terminal blocks
- The adapter included enables conversion from RJ45 to RJ11 and RJ12
- DIN rail mounting possible by removing the cover cap
- International use thanks to multiple assignment



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 155137

### Technical data

#### Dimensions

Height	103 mm
Width	25 mm
Depth	63 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 85 °C
Degree of protection	IP20

#### General

Housing material	Zinc die-cast
Color	silver/black
Standards for clearances and creepage distances	IEC 60664-1
	VDE 0110-1
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm

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## Technical data

### General

Type	Attachment plug for DIN rail mounting
Number of positions	4
Direction of action	Line-Line & Line-Ground/Shield

### Protective circuit

IEC test classification	B2
	C1
	C2
	C3
	D1
VDE requirement class	B2
	C1
	C2
	C3
	D1
Maximum continuous voltage $U_C$	185 V DC
	130 V AC
Maximum continuous voltage $U_C$ (wire-wire)	185 V DC
	130 V AC
Maximum continuous voltage $U_C$ (wire-ground)	185 V DC
Nominal current $I_N$	$\leq 380$ mA (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 6$ $\mu$ A
Standby power consumption $P_C$	$\leq 2010$ mVA
Residual current $I_{PE}$	$\leq 4$ $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Core)	$\leq 5$ kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth)	$\leq 5$ kA
Total surge current (8/20) $\mu$ s	10 kA
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Core)	100 A
Nominal pulse current $I_{an}$ (10/1000) $\mu$ s (Core-Earth)	100 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Core)	150 A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Earth)	150 A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static	$\leq 250$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static	$\leq 250$ V
Residual voltage at $I_n$ (conductor-conductor)	$\leq 120$ V
Residual voltage at $I_n$ (conductor-ground)	$\leq 120$ V
Voltage protection level $U_p$ (core-core)	$\leq 250$ V (B2 - 100 A)
	$\leq 250$ V (C1 - 500 A)
	$\leq 250$ V (C2 - 5 kA)
Voltage protection level $U_p$ (core-ground)	$\leq 250$ V (B2 - 100 A)
	$\leq 250$ V (C1 - 500 A)

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## Technical data

### Protective circuit

	≤ 250 V (C2 - 5 kA)
Response time tA (Core-Core)	≤ 100 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.5 dB (≤ 5 MHz)
	typ. 0.3 dB (≤ 8 MHz / 150 Ω)
	typ. 0.3 dB (≤ 2.5 MHz / 600 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	typ. 50 MHz
Resistance in series	3.3 Ω 10 %
Impulse durability (conductor-conductor)	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	B2 - 4 kV/100 A
Impulse durability (conductor-ground)	B2 - 4 kV/100 A
	C1 - 1 kV/500 A
	C2 - 10 kV/5 kA
	D1 - 1 kA

### Connection data

Connection method	RJ45/COMBICON
Connection type IN	RJ45 socket
	MC 1,5/4
Connection type OUT	RJ45 socket
	MC 1,5/4
Connection method	Screw connection
Screw thread	M2
Tightening torque	0.22 Nm
Stripping length	7 mm
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section AWG min.	28
Conductor cross section AWG max.	16

### Connection, equipotential bonding

Connection method	Cable connection/DIN rail
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### Standards and Regulations

Standards/regulations	IEC 61643-21
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## Classifications

### eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807
eCl@ss 9.0	27130807

### ETIM

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

### UNSPSC

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

## Approvals

### Approvals

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Approvals

EAC / EAC

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Ex Approvals

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Approvals submitted

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### Approval details

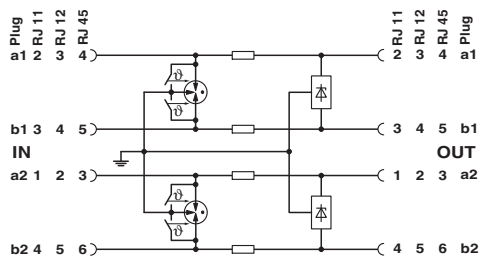
EAC
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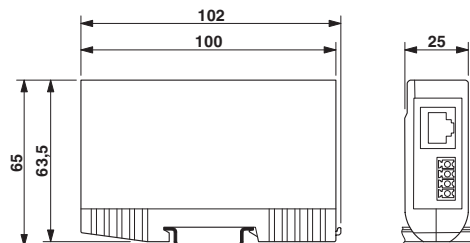
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## Drawings

Circuit diagram



Dimensional drawing



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PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>

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