

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.

Product Features

- 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 pc
Weight per Piece (excluding packing)	332.6 g
Custom tariff number	85369010
Country of origin	Germany

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
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Technical data

General

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
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	≤ 380 mA (25 °C)
Operating effective current I_C at U_C	≤ 6 μ A
Standby power consumption P_C	≤ 2010 mVA
Residual current I_{PE}	≤ 4 μ A
Nominal discharge current I_n (8/20) μ s (Core-Core)	≤ 5 kA
Nominal discharge current I_n (8/20) μ s (Core-Earth)	≤ 5 kA
Total surge current (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/1000) μ s (Core-Core)	100 A
Nominal pulse current I_{an} (10/1000) μ s (Core-Earth)	100 A
Nominal pulse current I_{an} (10/700) μ s (Core-Core)	150 A
Nominal pulse current I_{an} (10/700) μ s (Core-Earth)	150 A
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 250 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 250 V

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Protective circuit

Residual voltage at I_n (conductor-conductor)	$\leq 120 \text{ V}$
Residual voltage at I_n (conductor-ground)	$\leq 120 \text{ V}$
Voltage protection level U_p (core-core)	$\leq 250 \text{ V}$ (B2 - 100 A)
	$\leq 250 \text{ V}$ (C1 - 500 A)
	$\leq 250 \text{ V}$ (C2 - 5 kA)
Voltage protection level U_p (core-ground)	$\leq 250 \text{ V}$ (B2 - 100 A)
	$\leq 250 \text{ V}$ (C1 - 500 A)
	$\leq 250 \text{ V}$ (C2 - 5 kA)
Response time t_A (Core-Core)	$\leq 100 \text{ ns}$
Response time t_A (Core-Earth)	$\leq 100 \text{ ns}$
Input attenuation a_E , sym.	typ. 0.5 dB ($\leq 5 \text{ MHz}$)
	typ. 0.3 dB ($\leq 8 \text{ MHz} / 150 \Omega$)
	typ. 0.3 dB ($\leq 2.5 \text{ MHz} / 600 \Omega$)
Cut-off frequency f_g (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	0.14 mm ² ... 1.5 mm ²
Conductor cross section solid	0.14 mm ² ... 1.5 mm ²
Conductor cross section AWG	28 ... 16

Connection, equipotential bonding

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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

Approvals

EAC / EAC

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Approvals

Ex Approvals

Approvals submitted

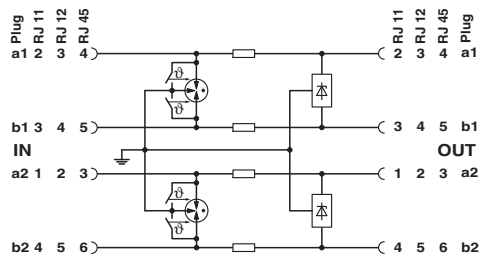
Approval details

EAC

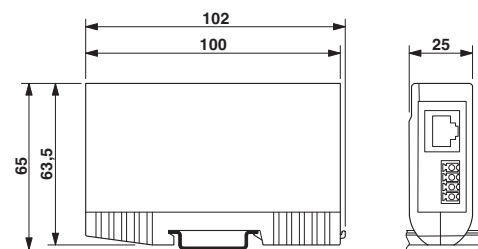
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Drawings

Circuit diagram



Dimensional drawing



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