

# 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

<b>package_quantity</b>	1
<b>GTIN</b>	4046356155137

## Technical data

### Dimensions

<b>Height</b>	103 mm
<b>Width</b>	25 mm
<b>Depth</b>	63 mm

### Ambient conditions

<b>Ambient temperature (operation)</b>	-40 °C ... 85 °C
<b>Degree of protection</b>	IP20

### General

<b>Housing material</b>	Zinc die-cast
<b>Color</b>	silver/black
<b>Standards for air and creepage distances</b>	IEC 60664-1
<b>Standards for air and creepage distances</b>	VDE 0110-1
<b>Mounting type</b>	Connection-specific attachment plug and DIN rail, 35 mm
<b>Design</b>	Attachment plug for DIN rail mounting
<b>Number of positions</b>	4
<b>Direction of action</b>	Line-Line & Line-Ground/Shield

### Protective circuit

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## Technical data

### Protective circuit

IEC test classification	B2
IEC test classification	C1
IEC test classification	C2
IEC test classification	C3
IEC test classification	D1
VDE requirement class	B2
VDE requirement class	C1
VDE requirement class	C2
VDE requirement class	C3
VDE requirement class	D1
Maximum continuous operating voltage $U_c$	185 V DC
Maximum continuous operating voltage $U_c$	130 V AC
Maximum continuous voltage $U_C$ (wire-wire)	185 V DC
Maximum continuous voltage $U_C$ (wire-wire)	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
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)
Voltage protection level $U_p$ (Core-Core)	$\leq 250$ V (C1 - 500 A)
Voltage protection level $U_p$ (Core-Core)	$\leq 250$ V (C2 - 5 kA)
Voltage protection level $U_p$ (Core-Earth)	$\leq 250$ V (B2 - 100 A)
Voltage protection level $U_p$ (Core-Earth)	$\leq 250$ V (C1 - 500 A)
Voltage protection level $U_p$ (Core-Earth)	$\leq 250$ V (C2 - 5 kA)
Response time $t_A$ (Core-Core)	$\leq 100$ ns
Response time $t_A$ (Core-Earth)	$\leq 100$ ns
Input attenuation $a_E$ , sym.	typ. 0.5 dB ( $\leq 5$ MHz)
Input attenuation $a_E$ , sym.	typ. 0.3 dB ( $\leq 8$ MHz / 150 $\Omega$ )
Input attenuation $a_E$ , sym.	typ. 0.3 dB ( $\leq 2.5$ MHz / 600 $\Omega$ )

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## Technical data

### Protective circuit

Cut-off frequency $f_g$ (3 dB), sym. in 100 Ohm system	typ. 50 MHz
Resistance in series	3.3 $\Omega$ 10 %
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Core)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	B2 (4 kV / 100 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C1 (1 kV / 500 A)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	C2 (10 kV/5 kA)
Surge carrying capacity in acc. with IEC 61643-21 (Core-Earth)	D1 (1 kA)

### Connection data

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

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## classifications

### ETIM

<b>ETIM 2.0</b>	EC000943
<b>ETIM 3.0</b>	EC000943
<b>ETIM 4.0</b>	EC000943
<b>ETIM 5.0</b>	EC000943

### UNSPSC

<b>UNSPSC 6.01</b>	30212010
<b>UNSPSC 7.0901</b>	39121610
<b>UNSPSC 11</b>	39121610
<b>UNSPSC 12.01</b>	39121610
<b>UNSPSC 13.2</b>	39121620

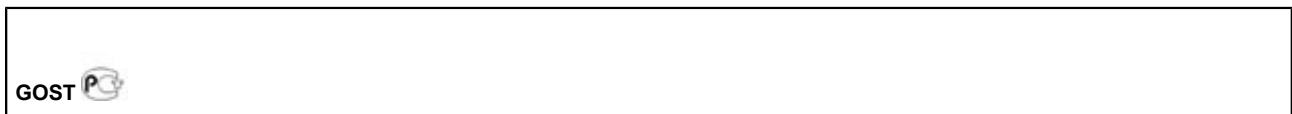
## approvals

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GOST / GOST /

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### Approval details



## accessories

D-C/RJ45-8/1,5 - 2818193

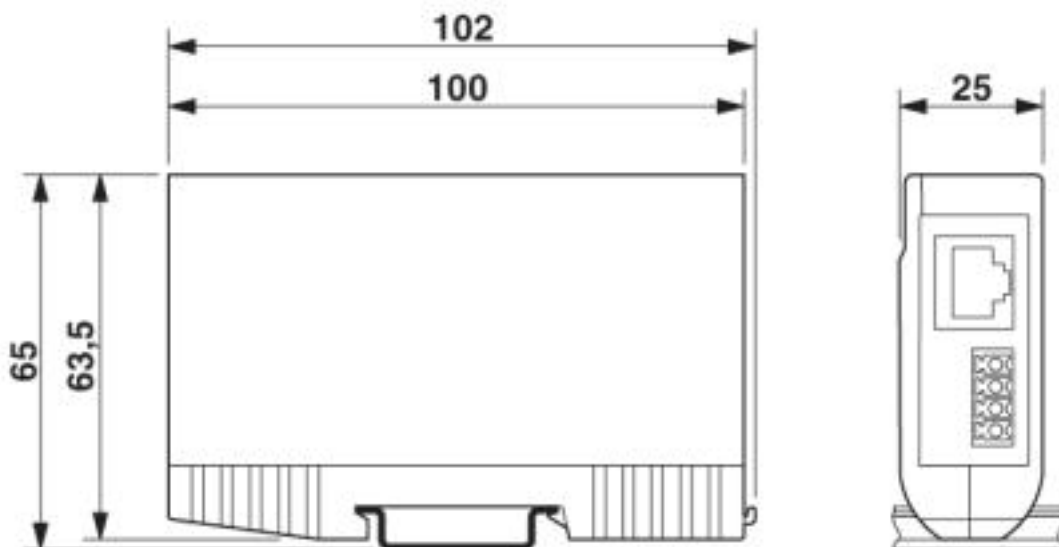


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## Drawings

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

Dimensioned drawing



Circuit diagram

