

## Surge protection device - DT-LAN-CAT.6+ - 2881007

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Surge protection in accordance with Class E<sub>A</sub> (CAT6<sub>A</sub>), for Gigabit Ethernet (up to 10 Gbps), token ring, FDDI/ CDDI, ISDN, and DS1. Suitable for Power over Ethernet (PoE+) "Mode A" and "Mode B". RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

### Product Features

- Reliable transmission speeds up to 10 Gbps
- Protective adapter for eight signal paths via RJ45 connector
- Suitable for category 6 high-speed data networks
- Can be installed in a control cabinet by removing the ground connection adapter



### Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	318.4 g
Custom tariff number	85363010
Country of origin	Germany

### Technical data

#### Dimensions

Height	102 mm
Width	25 mm
Depth	63.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Degree of protection	IP20

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### Technical data

#### General

Housing material	Zinc die-cast
Color	silver/black
Mounting type	Connection-specific attachment plug and DIN rail, 35 mm
Type	Attachment plug for DIN rail mounting
Number of positions	8
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 $U_C$	$\leq 3.3$ V DC
Maximum continuous voltage $U_C$ (wire-wire)	$\leq 3.3$ V DC ( $\pm 60$ V DC/PoE+)
Maximum continuous voltage $U_C$ (wire-ground)	$\leq 180$ V DC
Nominal current $I_N$	$\leq 1.5$ A (25 °C)
Operating effective current $I_C$ at $U_C$	$\leq 1$ $\mu$ A
Residual current $I_{PE}$	$\leq 400$ $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Core)	100 A
Nominal discharge current $I_n$ (8/20) $\mu$ s (Core-Earth)	2 kA (per signal pair)
Total surge current (8/20) $\mu$ s	10 kA
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Core)	$\leq 40$ A
Nominal pulse current $I_{an}$ (10/700) $\mu$ s (Core-Earth)	$\leq 160$ A
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) spike	$\leq 85$ V (PoE)
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) spike	$\leq 700$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Core) static	$\leq 9$ V
Output voltage limitation at 1 kV/ $\mu$ s (Core-Earth) static	$\leq 700$ V
Residual voltage at $I_n$ (conductor-conductor)	$\leq 15$ V
	$\leq 100$ V (PoE)
Voltage protection level $U_p$ (core-core)	$\leq 9$ V (B2 - 1 kV/25 A)
	$\leq 100$ V (B2 - 1 kV/25 A - PoE)

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### Technical data

#### Protective circuit

	≤ 15 V (500 V/100 A)
Voltage protection level U <sub>p</sub> (core-ground)	≤ 900 V (B2 - 4 kV/100 A)
	≤ 700 V (C2 - 4 kV/2 kA)
Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	≤ 1 dB (up to 100 MHz/direct measuring)
	≤ 1 dB (up to 250 MHz/direct measuring)
	≤ 3 dB (up to 500 MHz/direct measuring)
Near-end crosstalk attenuation	≥ 35 dB (250 MHz/100 Ω/link)
	≥ 45 dB (100 MHz / 100 Ω / Link)
	≥ 27 dB (500 MHz / 100 Ω / Link)
	≥ 39 dB (250 MHz/100 Ω/direct measuring)
Capacity (Core-Core)	typ. 12 pF (f= 1 MHz / VR= 0 V)
Capacity (Core-Earth)	typ. 2 pF (f= 1 MHz / VR= 0 V)
Surge protection fault message	None
Impulse durability (conductor-conductor)	B2 - 1 kV / 25 A
Impulse durability (conductor-ground)	B2 - 4 kV/100 A
	C2 - 4 kV/2 kA
	D1 - 1 kA

#### Connection data

Connection method	RJ45
Connection type IN	RJ45 socket
Connection type OUT	RJ45 socket

#### Connection, equipotential bonding

Connection method	Cable connection
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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

eCl@ss

eCl@ss 9.0	27130807
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## 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

UL Listed / EAC / EAC

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Ex Approvals

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Approvals submitted

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### Approval details

UL Listed 
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EAC
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EAC
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## Accessories

### Accessories

#### Patch cable

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m

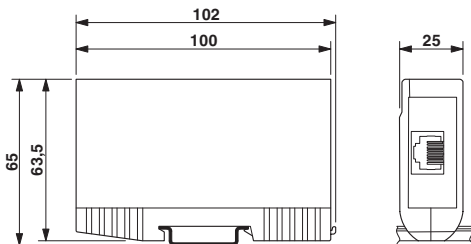
Patch cable - FL CAT6 PATCH 2,0 - 2891589



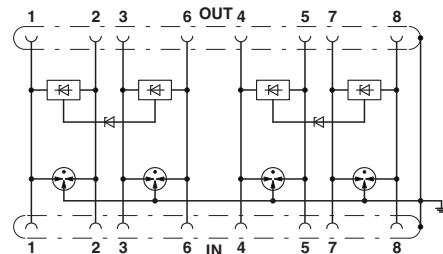
Patch cable, CAT6, pre-assembled, 2.0 m

## Drawings

Dimensional drawing

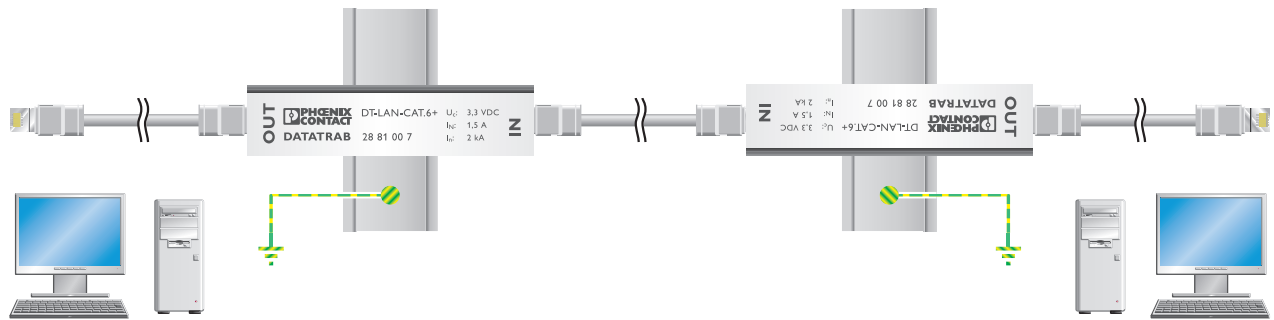


Circuit diagram



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Application drawing



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