

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

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Surge protection in accordance with Class E_A (CAT6_A), 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.

Why buy this product

- ✓ 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
GTIN	 4 046356 151900
Weight per Piece (excluding packing)	315.1 g
Custom tariff number	85363010
Country of origin	Germany

Technical data

Dimensions

Height	25 mm
Width	102 mm
Depth	63.5 mm

Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °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	VDE 0110-1
	IEC 60664-1
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 operating voltage U_C	≤ 3.3 V DC
Maximum continuous voltage U_C (wire-wire)	≤ 3.3 V DC (± 60 V DC/PoE+)
Maximum continuous voltage U_C (wire-ground)	≤ 180 V DC
Nominal current I_N	≤ 1.5 A (25 °C)
Operating effective current I_C at U_C	≤ 1 μ A
Residual current I_{PE}	≤ 8 μ A
Nominal discharge current I_n (8/20) μ s (Core-Core)	100 A
Nominal discharge current I_n (8/20) μ s (Core-Earth)	2 kA (per signal pair)
Total surge current (8/20) μ s	10 kA
Nominal pulse current I_{an} (10/700) μ s (Core-Core)	≤ 40 A
Nominal pulse current I_{an} (10/700) μ s (Core-Earth)	≤ 160 A
Output voltage limitation at 1 kV/ μ s (Core-Core) spike	≤ 85 V (PoE)
Output voltage limitation at 1 kV/ μ s (Core-Earth) spike	≤ 700 V
Output voltage limitation at 1 kV/ μ s (Core-Core) static	≤ 9 V
Output voltage limitation at 1 kV/ μ s (Core-Earth) static	≤ 700 V
Residual voltage at I_n , (conductor-conductor)	≤ 15 V
	≤ 100 V (PoE)
Voltage protection level U_p (core-core)	≤ 9 V (B2 - 1 kV/25 A)
	≤ 100 V (B2 - 1 kV/25 A - PoE)
	≤ 15 V (500 V/100 A)
Voltage protection level U_p (core-ground)	≤ 600 V (B2 - 4 kV/100 A)
	≤ 700 V (C2 - 4 kV/2 kA)

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Technical data

Protective circuit

Response time tA (Core-Core)	≤ 1 ns
Response time tA (Core-Earth)	≤ 100 ns
Input attenuation aE, sym.	1 dB (≤ 250 MHz)
Near-end crosstalk attenuation	≤ 35 dB (At 250 MHz / 100 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	> 500 MHz
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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Standards and Regulations

Standards/regulations	IEC 61643-21
	EN 50173-1
	ISO/IEC 11801-Am.1

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	27130809

ETIM

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

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Classifications

UNSPSC

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

Approvals

Approvals

Approvals

UL Listed / EAC

Ex Approvals

Approvals submitted

Approval details

UL Listed 

EAC

Accessories

Accessories

Patch cable

Patch cable - FL CAT6 PATCH 0,5 - 2891288



Patch cable, CAT6, pre-assembled, 0.5 m

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Accessories

Patch cable - FL CAT6 PATCH 1,0 - 2891385



Patch cable, CAT6, pre-assembled, 1.0 m

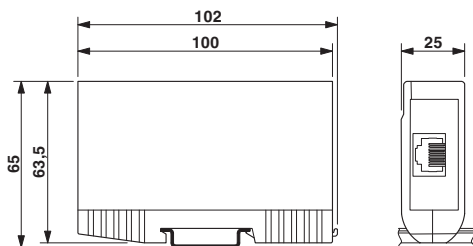
Patch cable - FL CAT6 PATCH 2,0 - 2891589



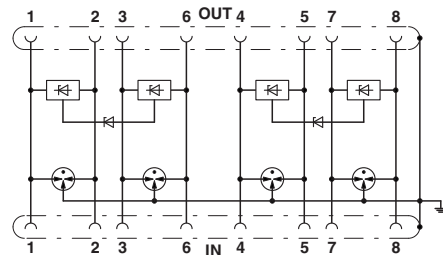
Patch cable, CAT6, pre-assembled, 2.0 m

Drawings

Dimensioned drawing



Circuit diagram



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Application drawing

