D-LAN-CAT.5-HC Surge Protector

CAT5/6 Data Line Lightning Surge Protector

- Protection for data interfaces
- Reliable transmission speeds up to 1 Gbps
- Protective adapter for eight signal paths via RJ45 connector (including PoE+)
- Suitable for category 6 high-speed data networks

The D-LAN-CAT.5-HC is a protective adapter to be inserted into the data line for the protection of LAN interfaces and the RJ45 cable.

Surge protection for information technology

Reliable data is indispensable in today's industry. The sensitive systems used in LANs work with high frequencies at low signal levels and are networked over a wide area. Surge voltages can quickly lead to largescale failures and, in the worst-case scenario, data loss. Data Line Surge protectors are specifically designed to **protect your investment in expensive wired, wireless and PoE equipment.**.

High-speed data protection

If you need effective **Lightning, RFI, ESD and transient surge protection** for highspeed data transmission, the DT-LAN-CAT.5-HC offers universal protection without affecting the signal at network speeds of up to 1 Gbps.

Suitable for the following environments

- 10/100/1G-Base-T
- Power over Ethernet (PoE+) “Mode A” and “Mode B”
- TOKEN Ring
- ISDN
- DS1

RJ45 attachment plug with separate grounding cable and ground connection snap-on foot for NS 35 DIN rails.

RoHS IP20 H D W

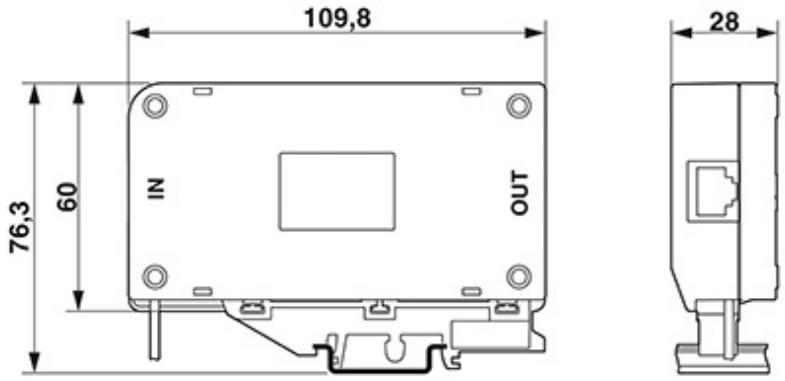
Specifications

1 Year Return to Factory Warranty	**Reach, RoHS and WEEE Compliant**	**HTSUS Number:** 8535.40.0000	**UNSPSC Code:** 39121621	**ECCN:** 5A991

Ambient Conditions	
Ambient temperature (operation)	-40°C ... 85°C
Ambient temperature (storage/transport)	-40°C ... 85°C
Degree of protection	IP20
Protective circuit	
IEC test classification	• B2 • C2 • D1 • C1
Maximum continuous operating voltage U_C	± 5 V DC
Maximum continuous voltage U_C(line-line)	± 5 V DC (± 57 V DC/PoE+)
Rated current	≤ 1.5 A (25°C)
Operating effective current I_C at U_C	≤ 600 µA
Nominal discharge current In (8/20) µs (line-line)	350 A
Nominal discharge current In (8/20) µs (line-ground)	2 kA
Pulse discharge current I_{imp} (10/350) µs (line-earth)	1 kA
Total discharge current I_{Total} (8/20) µs	8 kA
Nominal pulse current Ian (10/700) µs (line-line)	≤ 25 A
Nominal pulse current Ian (10/700) µs (line-earth)	≤ 100 A
Output voltage limitation at 1 kV/ µs (line-line) spike	• ≤ 25 V • ≤ 90 V (PoE)
Output voltage limitation at 1 kV/ µs (line-earth) spike	≤ 750 V

Residual voltage at In (conductor-conductor)	• ≤ 35 V • ≤ 110 V (PoE)
Residual voltage at In (conductor-ground)	• ≤ 35 V • ≤ 850 V (PoE)
Voltage protection level Up (line-line)	• ≤ 20 V (B2 - 1 kV/25 A) • ≤ 90 V (B2 - 1 kV/25 A - PoE) • ≤ 35 V (C1-700 V/350 A) • ≤ 110 V (C1-700 V/350 A-PoE)
Voltage protection level Up (core-ground)	• ≤ 700 V (B2 - 4 kV/100 A) • ≤ 850 V (C2 - 4 kV/2 kA)
Response time tA (line-line)	≤ 1 ns
Response time tA (line-earth)	≤ 100 ns
Input attenuation aE, sym.	• ≤ 0.5 dB (100 MHz/100 Ω) • ≤ 1 dB (100 MHz/100 Ω/Link Class E)
Near-end crosstalk attenuation	• typ. 63 dB (1 MHz/100 Ω/Link Class E) • typ. 43 dB (16 MHz/100 Ω/Link Class E) • typ. 30 dB (100 MHz/100 Ω/Link Class E) • > 40 dB (100 MHz/100 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	> 250 MHz
Capacity (core-core)	typ. 15 pF (f= 1 MHz / VR= 0 V)
Capacity (core-earth)	typ. 5 pF (f= 1 MHz / VR= 0 V)
Impulse durability (conductor-conductor)	• B2 - 1 kV / 100 A • C2-4 kV / 2 kA • D1 - 1kA
Impulse durability (conductor-ground)	• B2 - 4 kV/100 A • C2 - 4 kV/2 kA • D1 - 1 kA

General	
Color	gray/black
Housing material	PC+ABS
Flammability rating according to UL94	V-0
Dimensions	
Height	109.8 mm
Width	28 mm
Depth	76.3 mm



Standards and Regulations	
Standards / specifications	• VDE 0110-1 / IEC 60664 • IEC 61643-21/A1 2008 • EN 61643-21/A1 2009 • IEC 61643-21 2000 • GB/T 18802.21 2004
Environmental Product Compliance	
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
Approvals	
	• UL Listed • EAC

Commercial data	
Packing unit	1
Weight per piece	178.0 g (including packaging) 25.0 g (excluding packaging)
Country of origin	CN

Product List

D-LAN-CAT.5-HC - surge protection device for Ethernet Transmission speeds up to 1G. Connection: dual RJ45

Power Cord & Part Number(s)

None

8007638