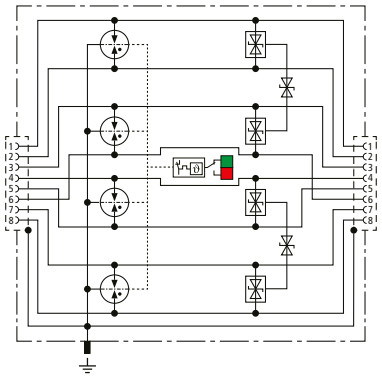
DEHNpatch – Arrester for Data Networks and Ethernet Applications

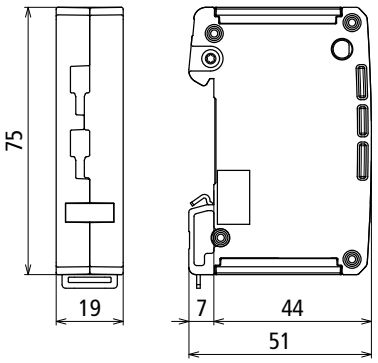
DPA CL8 EA 4PPOE (929161)

- Ideal for protecting Ethernet applications up to 10 GBit/s
- For use in structured cabling systems according to class E_A up to 500 MHz
- Power over Ethernet IEEE 802.3 compliant (up to PoE++ / 4PPoE)
- For installation in conformity with the lightning protection zone concept at the boundaries from 0_A – 2 and higher





Basic circuit diagram



Dimension drawing

Universal, space-saving combined arrester of 19 mm in width and RJ45 connection system with status indication for simple maintenance. Protection of applications in structured cabling according to class E_A to 500 MHz; e.g. industrial Ethernet, data distributors, digital camera systems, Power over Ethernet (IEEE 802.3 compliant to 4PPoE) and Ethernet-based interfaces in general. Protection of all pairs through powerful gas discharge tubes and protective diodes between signal cores and pairs. Fully shielded adapter design with RJ45 sockets for DIN rail mounting. With additional screw connection on the enclosure for an optional earth connection.

Type	**DPA CL8 EA 4PPOE**
Part No.	**929161**
Standards	
Certification	UL
UL Standard	UL 497b
UL File Number	E156818
Test values according to UL 497b	
Type (SPD classification)	DPA CL8 EA 4PPOE
Strike voltage Line to Line 100 V/s min.	5 V
Strike voltage Line to Line 100 V/s max.	5,7 V
Strike voltage Line to Ground 100 V/s min.	70 V
Strike voltage Line to Ground 100 V/s max.	110 V
Technical data	
SPD class	TYPE 1 P2
Impulse category	D1, C1, C2, C3
Nominal voltage (U_N)	3.3 V
Max. continuous operating voltage (d.c.) (U_c)	3.3 V
Max. continuous operating voltage (d.c.) pair-pair (PoE) (U_c)	58 V
Nominal current per line (I_L)	1.5 A
Nominal current (PoE) per line (I_L)	1 A
Impulse reset time	≤ 160 ms
D1 Lightning impulse current (10/350 µs) per line (I_{imp})	0.5 kA
C2 Nominal discharge current (8/20 µs) line-line (I_n)	150 A
C2 Nominal discharge current (8/20 µs) line-PG (I_n)	2.5 kA
C2 Nominal discharge current (8/20 µs) pair-pair (PoE) (I_n)	150 A
C2 nominal impulse discharge current (8/20 µs) Pa-PG (PoE) (I_n)	2.5 kA
C1 impulse durability (8/20 µs) line-line (I_n)	150 A
C1 impulse durability (8/20 µs) line-PG (I_n)	1 kA
C3 impulse durability (10/100 µs) line-line (I_n)	40 A
C2 total discharge current (8/20 µs) (I_{total})	10 kA
Voltage protection level line-line for I_n C2 (U_p)	≤ 100 V
Voltage protection level line-PG for I_n C2 (U_p)	≤ 500 V

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: Tested • NEU: New • !: Discontinued Model
: Cross connector • : Longitudinal connector • : Parallel connector • : T connector • : Clamp for parallel connector • : Clamp for T connector
: Pipe clamp for parallel connector • : Pipe clamp for T connector • : Equipotential bonding bar • : Bridging component

Technical data	
Voltage protection level line-line for I_n C2 (PoE) (U_p)	≤ 100 V
Voltage protection level line-line at 1 kV/µs C3 (U_p)	≤ 100 V
Voltage protection level line-PG at 1 kV/µs C3 (Up)	≤ 500 V
Voltage protection level pair-pair at 1 kV/µs C3 (PoE) (U_p)	≤ 160 V
Cut-off frequency at 100 ohms (f_G)	500 MHz
Cut-off frequency at 120 ohms (f_G)	250 MHz
Capacitance line-line (C)	≤ 15 pF
Capacitance line-PG (C)	≤ 40 pF
Operating temperature range (T_U)	-40°C to +80°C
Degree of protection	IP 20
For mounting on	35 mm DIN rails acc. to EN 60715
Connection (input / output)	RJ45 socket / RJ45 socket
Pinning	1/2, 3/6, 4/5, 7/8
Earthing via	35 mm DIN rail acc. to EN 60715
Enclosure material	zinc die casting
Colour	bare surface
Test standards	IEC 61643-21 / EN 61643-21
Approvals	GHMT, UL 497B

Masterdata	
Net weight	179.8 g/pc(s)
Customs tariff number (Comb. Nomenclature EU)	85363010
GTIN	4013364472921
PU	1 pc(s)

We reserve the right to make changes to the design and technology, dimensions, weights and materials in the interests of technical progress. The illustrations are not binding.

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