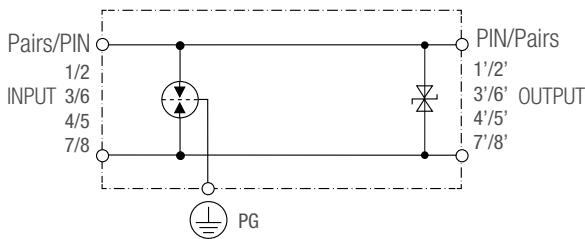
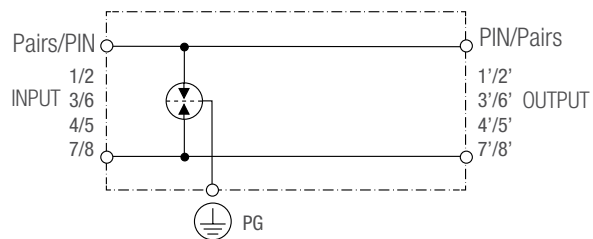


model S-F 1/6 Code 318 008  
general layout for each of  
the four wire pairs in the line

S-F 1/6



model S-F 1/48 PoE+ Code 318 009  
general layout for each of  
the four wire pairs in the line



model S-F 1/48 PoE+ b Code 318 010  
general layout for each of  
the four wire pairs in the line

S-F 1/48 PoE+ ...

**S-F 1/6 is an SPD for the protection of equipment connected to Category 6 A cable systems according to EN 50173-1. S-F 1/48 PoE+ and S-F 1/48 PoE+ b are SPDs for the protection of equipment connected to Category 6 A cable systems according IEEE 802.3 at and ISO/IEC 11801 for 10 GB applications. They are equipped with RJ 45 female connectors. Typical applications are for the protection of cameras or CCTV systems connected via Ethernet cables, providing the following features and benefits:**

- Suitable for installation at boundaries 1 – 2 and higher, in accordance with the lightning protection zones concept;
- Protection of all four wire pairs in each line;
- In patch panel boards the S-F 1/6 or S-F 1/48 PoE is installed between the incoming lines and the hub/switch.

Model S-F ...	1/6	1/48 PoE+	1/48 PoE+ b
CODE	318 008	318 009	318 010
SPD impulse rating / Category		C2, C3	
Number of protected lines	n	1 (four wire pairs)	
Nominal dc Voltage	U <sub>n</sub> 6 V	48 V	48 V
Max. Continuous Operating Voltage (dc)	U <sub>c</sub> 7,2 V	58 V	58 V
Rated Line Current	I <sub>L</sub> 100 mA	1 A	1 A
Category C2 - Nominal Discharge Current (8/20 μs) per wire	I <sub>n</sub> 1 kA	1 kA	1 kA
Category C2 - Voltage Protection level at I <sub>n</sub> wire (all modes)	U <sub>p</sub> ≤ 15 V	≤ 120 V	≤ 600 V
Category C3 - Voltage Protection level at 1 kV/μs (all modes)	U <sub>p</sub> ≤ 9 V	≤ 120 V	≤ 600 V
Data rate	100 Mbit/s	250 Mbit/s	250 Mbit/s
Category (according IEEE 802.3 at)	6	6 A	6 A
Bandwidth	f 500 MHz	500 MHz	500 MHz
Typical attenuation at 500 MHz	a <sub>e</sub> 2,7 dB	2,7 dB	2,7 dB
Maximum capacity wire-wire	C ≤ 50 pF	≤ 50 pF	≤ 50 pF
Operating temperature range	-40 ... +70 °C	-40 ... +70 °C	-40 ... +70 °C
Connectors (input and output)	RJ 45 female	RJ 45 female	RJ 45 female
Protected pin	1/2, 3/6, 4/5, 7/8	1/2, 3/6, 4/5, 7/8	1/2, 3/6, 4/5, 7/8
Mounting	indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715	indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715	indoor, 35 x 7,5 mm top hat DIN rail IEC/EN 60715
PE/PG connection	6,3 mm flat quick connect male tab + 1,5 mm <sup>2</sup> cable	6,3 mm flat quick connect male tab + 1,5 mm <sup>2</sup> cable	6,3 mm flat quick connect male tab + 1,5 mm <sup>2</sup> cable
Approximate weight	105 g	105 g	105 g
Dimensions	l 45 x h 31 x w 90 mm	l 45 x h 31 x w 90 mm	l 45 x h 31 x w 90 mm
GTIN (EAN)	8054890321426	8054890321433	8054890321440

TECHNICAL DATA