

# RJ45 Surge Protection Device

## RJ45-SPD Class E<sub>A</sub>

Structured cabling with RJ45 connecting hardware is a vital part of today's telecommunication. 100 % uptime is mandatory for seamless data transmission with data rates up to 10 Gigabits per second. However, galvanic, inductive and capacitive coupling as well as potential differences may cause enormous problems and hazards for any electronics connected to such a network. To protect the electronic equipment, an appropriate RJ45 surge

protection with proper grounding has to be implemented in the cabling link. Telegärtner's RJ45-SPD surge protection meets or exceeds the requirements for class E<sub>A</sub> networks for powerful high speed applications including 10 Gigabit Ethernet and PoE/PoE+. Its integrated protection against overbending the contacts ensures that the link will still work even after a RJ11 or RJ12 connector had been plugged in.

### Technical Data

#### Environment Requirements

Operation temperature	-40° C to +70° C
Protection class	IP20

#### Connection

IN / OUT	RJ45/RJ11/RJ12
Mating cycles	≥750
DIN rail	TS35

#### Dimensions

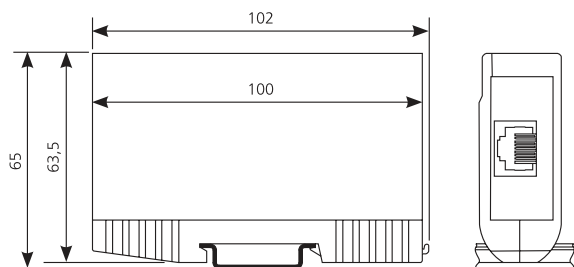
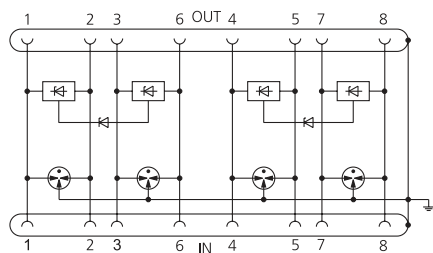
Hight/Width/Depth	103/25/63 mm
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#### Transmission Characteristics

Class E <sub>A</sub> (Permanent/Channel Link)	ISO/IEC 11801, DIN EN 50173-1
PoE / PoE+	acc. to IEEE 802.3at
Surge protection	acc. to DIN EN 61643-21

#### Electrical Characteristics

Max. continuous operating voltage U <sub>c</sub>	≤ 3,3 V DC (60VDC/POE+)
Nominal current I <sub>n</sub>	≤ 1,5 A (25 °C)
Nominal discharge surge current (8/20)µs; core-core / core-ground	100 A / 2 kA
Protection level U <sub>p</sub> core-core / core-ground	≤ 9 V (B2-1 kV/25 A) / ≤ 600 V



Order no.	Description	Remarks
J00029A0116	RJ45-SPD Class E <sub>A</sub>	suitable for RJ45/11/12 plugs