AI RJ45-PWK

Surge arrester for Power over Ethernet

Features

- ► In aluminium housing
- ► Protection for 8 cores
- ► With two-stage protective circuit
- ► Support IEEE 802.3 AF / AT / BT Type 3,4 PoE Standard (90W)
- ► With RJ45 Western connector Cat5E Cat6
- ► Incl. 150 mm connection cable with RJ45 connectors
- ► Network technology, 10BaseT, 100BaseT, 1000BaseT , 10G
- ► DIN rail mounting

Product Description

IP67 Rated Local Area Network Protector

The AI RJ45-CAT6 Iis designed to protect twisted pair network cabling systems that are compliant with CAT5, CAT6 and CAT6A for CCTV system cabling standards in outdoor applications where a weatherproof housing is required. The AI RJ45-CAT6 is rated at IP67, if installed according to the installation instructions. It can replace the use of indoor type products that would require an additional weatherproof housing.

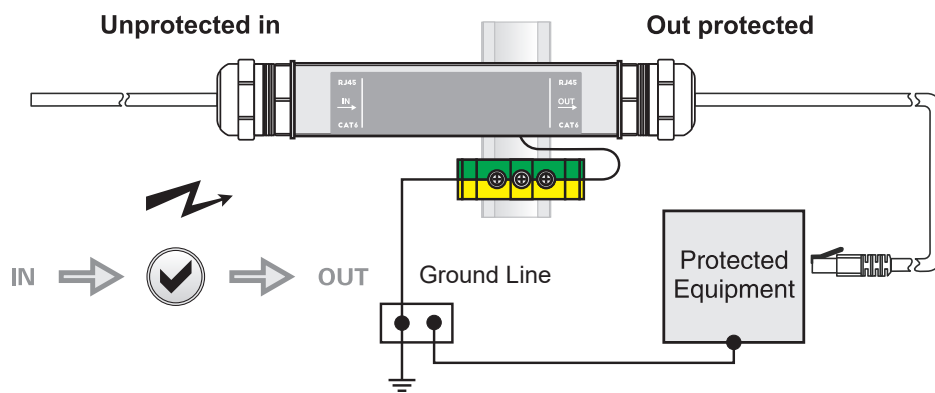### PoE, PoE+, High Power PoE and beyond

The AI RJ45-CAT6 protection devices are compliant with PoE standards and can pass up to 1A of current per signal pair at up to 60VDC. This combination allows for Gigabit PoE systems with 4 pair power up to 160W.

SPECIFICATIONS

Type	AI RJ45-PWK
Max operating voltage (Un)	
pin1-2,3-6	5V
pin4-5,6-7	48V
Max. voltage operating level (UC)	
pin1-2,3-6	< 7.5V at 1 kv / 1kV / μsec
pin4-5,6-7	< 60V at 1 kv / 1kV / μsec
Transient surge current (In @8/20μs)	2.5 kA
Discharge Current (Vmax)	20kV / 8kA
TOVs surge current	
pin1-2,3-6	>500 mA 50 Hz in 5 Sec
Let through voltage	<14 V (due to TOVs surge current)
Data Rate	10/100/1000Mbps

Number of poles	8
Rated current A	1
Total discharge current (8/20) kA	8
Frequency range	>155 MHz
Operating Temperature range °C	-40 to 85°C
Installation type	Connector/cable adapter
Connection system	RJ45 to RJ45
Protection rating	IP67
Shielding connection available	YES
Testing standard	IEC61643-11:2012 , EN61643-11:2012, IEEEC62.41.1-2002, ITU-T Rec.K.12, IEC61000-4-5, IEEE802.3AT

Installation diagram

Unprotected in

Out protected

RJ45 IN CAT6

RJ45 OUT CAT6

IN

OUT

Ground Line

Protected Equipment

Connection

1
2
3
4
5
6
7
8
PG

1
2
3
4
5
6
7
8
PG

PE