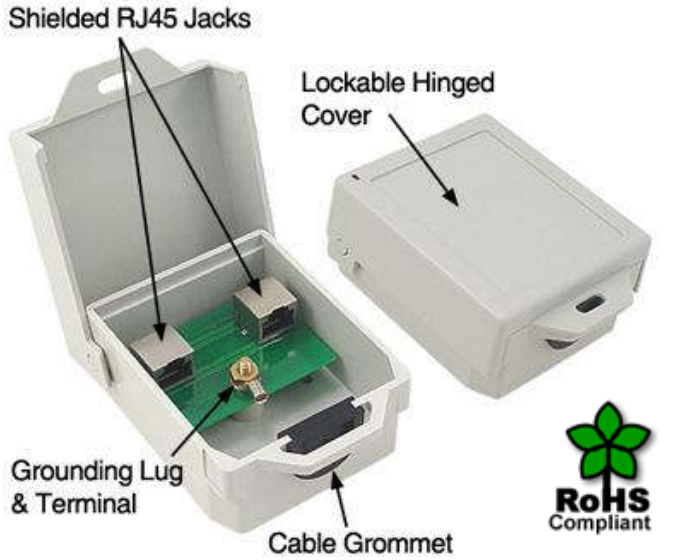
HyperLink Wireless 10/100/1000/10G Base-T CAT6a PoE Lightning Surge Protector Model: AL-CAT6AJW

Applications

- Protection of 10/100/1000/10000 (10G) Base-T Ethernet equipment (servers, switches, routers, client equipment)
- CAT6a data networks
- IT server complexes
- IP based security and surveillance systems
- Outdoor WiFi networks

Features

- CAT5, CAT5e, CAT6 and CAT6a compatibility
- Impact and weather resistant enclosure with locking hinged cover
- Shielded CAT6a RJ45 jacks
- PoE Compatible



Description

The AL-CAT6AJW lightning and surge protector provides superior lightning and surge protection with improved frequency response for 10/100/1000/10000 (10G) Base-T Ethernet networks. It is designed for use with CAT6a Ethernet cabling, but can also be used with CAT5, CAT5e and CAT6 cabling.

The use of ultra-low capacitance semiconductors in this protector provides superior high frequency response and improved return loss for the four data pairs. The unit has low line to line and line to ground capacitance to minimize distortion of high-speed signals. The design provides protection for both common and differential mode surges.

The design utilizes Thyristor diode technology which has superior power handling capability compared to TVS or Zener diode based designs. In addition, the unit is compatible with 802.3af Power-over-Ethernet (PoE) devices. This device supports PoE mode A and B for power. The unit supports normal and reverse polarity PoE used in some Cisco Access Points. The AL-CAT6AJW is compatible with wireless Access Points, Bridges, Client Adapters and Network Appliances with or without Power-over-Ethernet (PoE) functionality.



The compact weather resistant housing features a lockable hinged cover and mounting holes are provided on the rear of the enclosure for mounting. The cable grommet may be adjusted to cable size and are removable.

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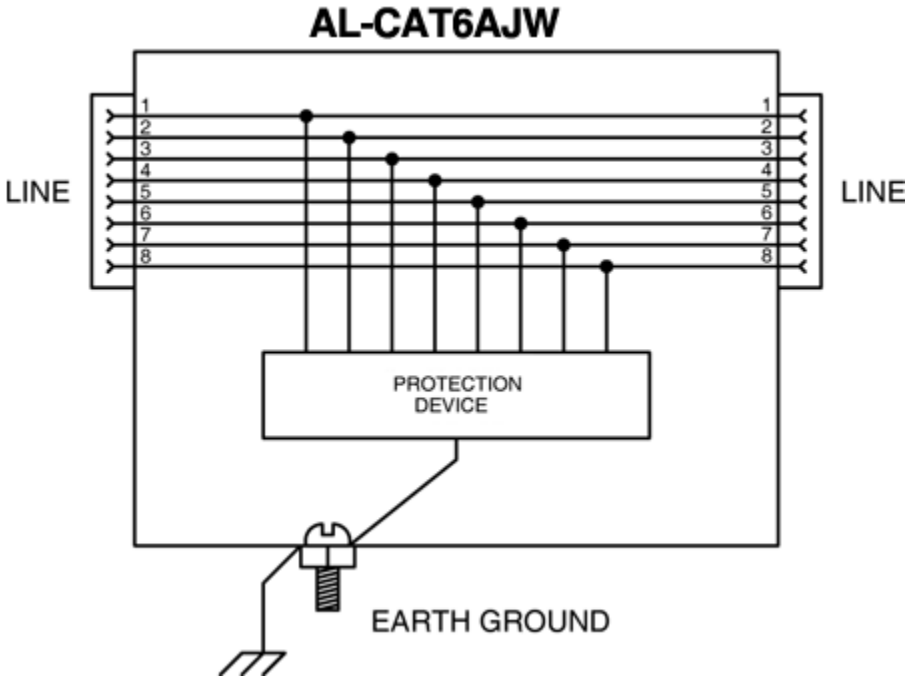
Specifications

Electrical Specifications

Ethernet Connectors	(2) CAT6a RJ45 Jacks
Clamping Voltage	Line – Ground: 65 Volts Line – Line: 30 Volts
Data Line Impedance	100 Ohms Balanced
CAT6 Data Lines	Pair 1: Pins 1 and 2 Pair 2: Pins 3 and 6 Pair 3: Pins 4 and 5 Pair 4: Pins 7 and 8

Mechanical Specifications

Enclosure Material	Polycarbonate
Enclosure Color	Gray
Ground Lug	12 AWG Max.
Operating Temperature	-40 C (-40 F) to +80 C (+176 F)
Weight	.27 lbs. (.12 kg)
RoHS Compliant	Yes



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