



Data Line Protection For POE Applications



LD-75

The LD-75 is designed to protect eight wire data circuits with communication rates up to HDMIBaseT at power levels up to 75V.

The LD-75 provides silicone avalanche diode (SAD) protection against potentially damaging surges resulting from lightning strikes near equipment installations. Protection is provided to all eight conductors with RJ45 connections.

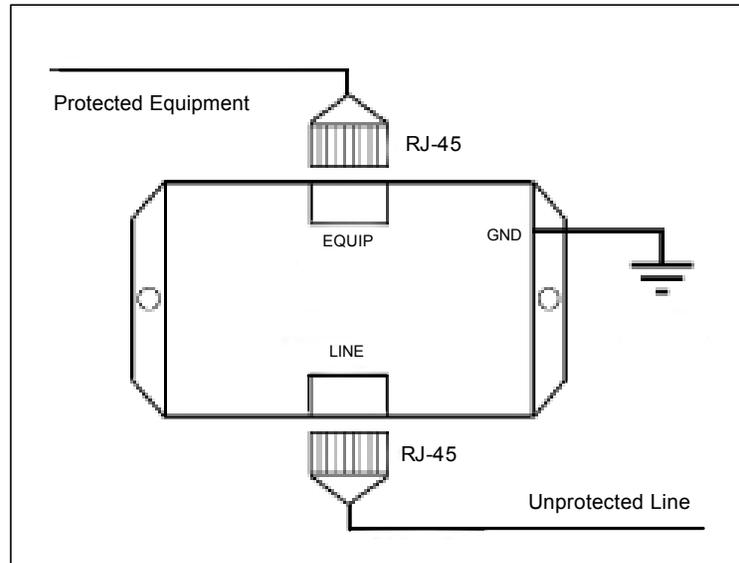
The unit design includes line to ground protection with a ground line conductor that safely diverts potentially damaging energy surges.

This device is rated for operating voltages up to POE levels and has a breakover (protection) threshold of 75 volts. It has a low capacitance design that has been tested to a 1Gb transmission rate with a BERT error rating of 1.5% - sufficient for HDBaseT.



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LD-75 Features and Installation



User equipment plugs into the protected side of the LD-75 (“EQUIP”). The source data line plugs into the unprotected side (“LINE”). The green wire (“GND”) must be bonded to the protected equipment power ground (third wire safety ground). Keep the ground wire as short as possible. Adding length to the ground increases the resistance of that line and reduces the effectiveness of the protection.

Never install data wiring during a lightning storm.

Disconnect data lines before installing the LD-75.

This protector is intended for indoor use on communication loop circuits that are isolated from the Public Switch Telephone Network.

Low voltage, communications loop circuits should not be exposed to accidental contact with high voltage conductors, such as lighting or power lines. This protector should be installed per applicable requirements of the National Electric Code and related local codes and ordinances.

Model	LD-75
Connector	RJ-45
Protected Conductors	8
Peak Surge Current	15A
DC Breakover Voltage	75V
Typical Capacitance	<30pf
Response Time	< 1 Nanosecond
Transmission Rate	HDBaseT