

Lightning Arrestor



Lightning Arrestor is an external lightning protection unit supporting data and signal surge protection over PoE.

Lightning Arrestor offers outdoor data line series protection designed to support Ethernet applications including 10/100 and 1000 BaseT interfaces with PoE.

Lightning Arrestor incorporates high-power gas discharge tube and current transistor protection in a single protector unit.

Product Highlights

- Support data rates of up to 1000 Mbps
- Enclosure rating of IP67 for all outdoor conditions
- Small form factor
- High data voltage protection
- Fast response with Netronics ODU outdoor and indoor products
- Pole and Wall mounting kits
- Simple installations

Product Specifications

Electrical

Compatible Interfaces	10/100/1000BaseT
Data Rates	Up to 1000 Mbps
Nominal Operational Voltage	48 VDC
Maximum Operational Voltage	60 VDC - 650 mA
Maximum Continuous current	1 A
Impedance	90 to 110 Ohm
Connection type	RJ45 CAT5e STP (shielded)
Pin-out	8 wires + shielding
Pins Protected	All pins protected
Response time	<5 microseconds (with ODU)
Nominal discharge currents	
Line to Line	500 A @ 8/20 μ s
Line to Ground	2000 A @ 8/20 μ s
Impulse Discharge Current	
20000 A, 8/20 μ s	1 operation minimum
10000 A, 8/20 μ s	> 10 operations
2000 A, 10/350 μ s	1 operation
200 A, 10/1000 μ s	> 300 operations
200 A, 10/700 μ s	> 500 operations
Impulse Spark-over	
DC Spark-over \pm 20% @ 100 V/s	150 V
100 V/ μ s	350 V
1000 V/ μ s	500 V
Capacitance	< 2 pF
DC Holdover Voltage	80 V
Mechanical	
Enclosure	Metal
Connection to bonding Network	Screw
Dimensions	150 mm
Weight	220 gram (0.22 Kg)
Environmental	
Operating temperature	-40 to +60
Storage temperature	-50 to +70
Enclosure rating	IP67
Humidity	100% non condensing