

Features

- Inline coaxial surge protection for RF systems
- Wideband performance from DC to 3000 MHz
- N-Female to N-Female connectors for easy inline installation
- High surge handling: 10/20 KA discharge current
- Insertion loss ≤ 0.5 dB for minimal signal impact
- VSWR ≤ 1.20
- Initial discharge voltage: 230 V
- Compact and durable: 110 g body, 50 Ω impedance
- AC withstand voltage: 2500 V for 1 minute without arcing



Description

The LP-N coaxial lightning surge protector functions as a signal filter, allowing the passage of desired frequencies while redirecting electrical surges from lightning strikes safely to ground. It features N-Female connectors on both ends for easy inline installation in coaxial systems.

Material Information

Part	Material	Electroplating
Hull	Brass Rods	N/A
Plughole	Brass Rods	N/A
Contact Pin	Brass Rods	N/A
Inner Conductor	Brass Rods	N/A
Sealing Element	Silicon Rubber	N/A
Dielectric	PTFE	N/A
SC	Stainless	N/A

Installation

To ground the LP-N, use 10 or 12-gauge copper wire and attach it to the ground connector screw.

Tighten the screw so the wire is firmly embedded under the screw. Clip the other end of the wire and strip back the jacket to expose the raw wire.

Attach the wire to a grounding point or rod sunk into the ground 8 feet deep. Be sure to check local grounding code requirements as they vary by location.

Ordering Information

Model	Description	Stock No.
LP-N	In-line Lightning Surge Protector 50 ohm, N-Female to N-female	3996042

Technical Specifications

Impedance		50
Insulation Resistance		≥ 5000
Contact Resistance (MΩ)	Inner Conductor (MΩ)	≤ 1
	Outer Conductor (MΩ)	≤ 1
Pressure AC (Vmin)		2500V 1min 2500V 1min - No breakdown and no arcing phenomenon
Frequency Range (MHz)		DC-3000
Peak Power		200
Initial Discharge Voltage (V)		230
Peak Discharge Current (KA)		10/20
Insertion Loss (dB)		≤ 0.50
VSWR		≤ 1.20
Weight (g)		110

