

# ANT-271-002

## 75 Ohm F-Female/F-Female Lightning Arrester



### Applications

- TV Antennas including HDTV
- Satellite Dish Antennas
- 75 Ohm 4G/5G Signal Booster Antennas
- AM / FM / XM Radio Antennas
- Coaxial Cable Modem Internet Connections



### Product Features

- Designed for TV, Satellite, AM, FM And Cable TV/Internet Use
- Compatible with 75 Ohm 4G/5G Signal Boosters
- Bi-Directional Protection - High Quality Construction - Outdoor Rated
- Very Low RF Insertion Loss (Signal Attenuation) - DC Pass-Through
- 230V Gas Discharge Tube with Multi-Strike Capability Shunts Damaging Surges, Transients, and Lightning Energy to Ground
- Connect Coaxial Surge Protector to Antenna Signal Feedline and Earth Ground

### Ordering Information

Part No.	Description
ANT-271-002	Coaxial Lightning Arrester with 75 Ohm F Female Connectors

### General Description

This gas discharge tube lightning suppressor features dual 75 Ohm F-Female connectors, a replaceable gas tube and low signal insertion loss and interference.

It is intended for use with Television (TV), CATV, Satellite (Dish) and Radio Antennas and Cable Internet applications.

This arrester is also compatible with 75 Ohm outdoor antennas and cabling using on some 4G/5G Signal Boosters (amplifiers).

Pro-Grade 230V arresters absorb 2.5 times the energy of typical 90V arresters for better protection of your home and equipment.

With dual F-Female connectors, the arrester sits inline with your coax cabling. It passes DC for applications such as remote amplifiers and LNAs. Both ports are equally protected - it can be installed in either orientation. The housing ground lug provides superior grounding.

Coaxial lightning suppressors should be installed between outdoor antennas and equipment to protect from high-energy electrical pulses carried through the coax cable either from a direct or nearby lightning strike. Arresters should be installed outdoors as close as possible to the equipment to be protected, typically at the point where the coax cable enters the building.

### Electrical Specifications

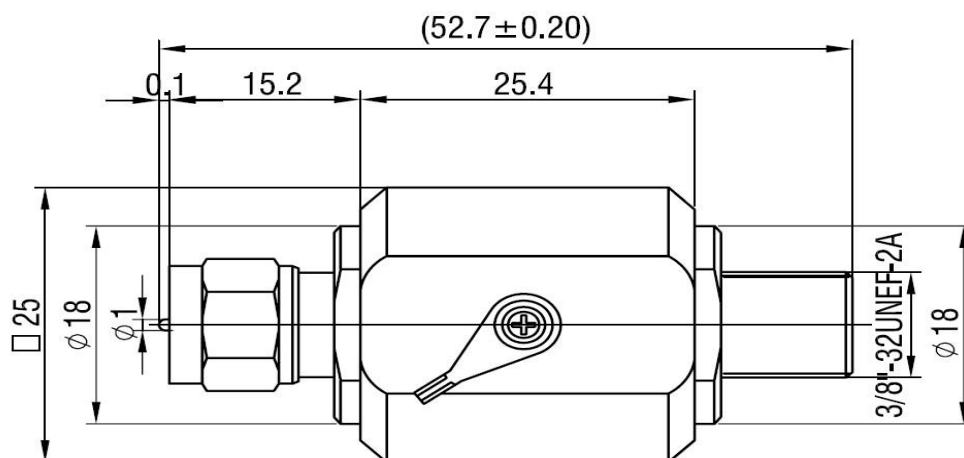
Parameter	Rating
Impedance	75 $\Omega$
Frequency Range Max	DC-1.2 GHz
Dielectric Withstanding	500 V (RMS)
Contact Resistance	Center conductor $\leq 10$ m $\Omega$ , Outer conductor $\leq 5$ m $\Omega$
Insulation Resistance	$\geq 1000$ M $\Omega$
DC Break-Down Voltage	230 V (100 V/s test waveform at 100 V/s)
Impulse Break-Down Voltage	< 700 V (1 KV/us test waveform at 1 KV/us)
Nominal AC Discharge Current	20 A
Arc Voltage (@ 1A)	$\sim 15$ V
Holdover Voltage	80 V
Impulse Discharge Current	5 A (1 shot 10/350 us) 20 (10 shot 8/20 us) 25 A (1 shot 8/20 us) 100 A (300 shots 10/1000 us)

### Mechanical Specifications

Parameter	Rating
Connector Types	F-Female / F-Female
Ground Lug	M4 Screw Lug - 8 AWG Max Wire Diameter
Shell/Body	Nickel Plated Brass
Conductor	CuSnZn3 Plated Brass
Insulator	PTFE
Mating	3/8"-32UNEF-2A(B)
Durability	$\geq 500$ cycles
Temperature range	-40°C to +85°C

Operation of this device outside the parameter ranges given above may cause permanent damage.

### Mechanical Dimensions



	<div>dimensions in millimeter (mm)</div>					3	SHELL/BODY	BRASS	3	NICKEL	
Register						2	INSULATOR	TEFLON	2		
						1	CONDUCTOR	BRASS	1	CuSnZn3	
Old base drawing number						CODE	DESCRIPTION	MATERIAL	QTY	FINISH	
base drawing number						Title		Part Number			
signature	Mark	Num.	File number	signature	Date	F type Lighting protection		Version	QTY	Weight (KG)	Scale
	Design				V1.2						
Date	Drawing				Total			Pages	The	Page	
	Check										
	Approval										
						OUTLINE DRAWING					

# ANT-271-002

75 Ohm F-Female/F-Female Lightning Arrester



## Contact Information

For the latest specifications, additional product information, worldwide sales and information about Proxicast:

Web: [www.proxicast.com](http://www.proxicast.com) Tel: 1-877-777-7694

Email: [sales@proxicast.com](mailto:sales@proxicast.com) 1-412-213-2477

Proxicast • 312 Sunnyfield Drive, Suite 200 • Glenshaw, PA 15116 USA

For technical questions and application information:

Email: [support@proxicast.com](mailto:support@proxicast.com)

## Important Notice

The information contained herein is believed to be reliable. Proxicast makes no warranties regarding the information contained herein. Proxicast assumes no responsibility or liability whatsoever for any of the information contained herein. Proxicast assumes no responsibility or liability whatsoever for the use of the information contained herein. The information contained herein is provided "AS IS, WHERE IS" and with all faults, and the entire risk associated with such information is entirely with the user. All information contained herein is subject to change without notice.

The information contained herein or any use of such information does not grant, explicitly or implicitly, to any party any patent rights, licenses, or any other intellectual property rights, whether with regard to such information itself or anything described by such information. Proxicast products are not warranted or authorized for use as critical components in medical, life-saving, or life-sustaining applications, or other applications where a failure would reasonably be expected to cause severe personal injury or death.