

CableFree 0-6GHz RF Surge Protector

Product Description

The CableFree Surge Arrester for RF cables (0-6GHz, including IF cables) uses high-quality components throughout the design, with stable performance, from over current to over-voltage all have made comprehensive protection. The internal structure includes surge protection for RF cable surges which can prevent your systems and equipment from surge damage caused by electrostatic discharge or lightning strike.

Due to its superior RF performance the unit is ideal for 5GHz Radio Links (IEEE 802.11a, 802.11n, 802.11ac) and other 5.2 - 5.8 GHz ISM and UNII applications, as well as 3.5GHz 4G/5G/LTE applications. Another feature of this surge protector is that it will pass DC power voltages including up to 48V DC, ensuring that it is suitable for applications where DC is carried through the coax cable such as remote radio heads, Microwave Outdoor Units (ODUs), remote amplifiers and LNA's. One specific application is Split Mount Microwave (IDU + ODU) where the power from IDU to ODU is carried up the IF (Intermediate Frequency) cable along with the IF signals.

- Two inline RF N connectors for LMR200, LMR400, LMR600 or similar cables
- Supports RF signals from 0 to 6GHz with provision for DC power on central core
- Supports 2.4GHz, 3.5GHz, 5GHz, 5.8GHz WLAN, WiMax, LTE, 4G & 5G signals
- Supports IDU-ODU connections for Split-Mount Microwave links with 48V DC on centre core
- One Earth Grounding tag (must be connected to a suitable safety earth)
- Excellent performance discharge capability, which can prevent equipment damage caused by transient voltage differences between power supply, network, earth and other equipment.
- Adopt multi-level protection circuit, low residual voltage, and excellent protective effect.
- Extremely quick response and large surge protection capacity.
- Excellent stable signal transmission performance and long working life.
- Composite SPD apply to the lightning protection for Unpowered RF signals as well as Powered RF/IF devices

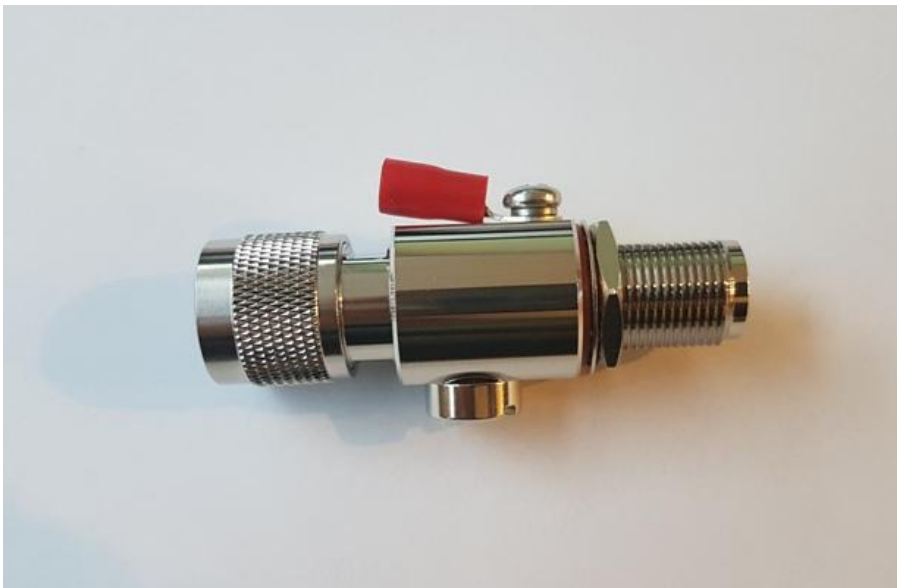
Product Parameters

Model	CF-SURGE-RF-6GHz-48V
Freq Range	0-6GHz
Connector	N-Male to N-Female Bulkhead
Body Material	Zinc Plated Brass
Connector Material	Zinc Plated Brass
Centre Pin Material	Gold Plated Brass
Impedance	50Ω Nominal
V.S.W.R	1.3:1 Max.
DC Breakdown Voltage	230 +/- 20% (100V/s speed)
Pulse Breakdown Voltage	<600V (100V/s speed)
AC current range	20A
Pulse current range	200A
Over-voltage protection	>150V (100mA, <150ms)
Isolation resistor	1000m ohms
Transmission loss	-1.5dB
Gap can	1.5P
Weight	210 gr
Dimensions	23 x 64 x34mm
Operating Temp.	-10C~+80C
Storage Temp.	-40C~+80C

Product Installation

1. This device is suited for Indoor location, or installation in a suitable waterproof/weatherproof enclosure
2. This product should be installed between customer wireless network antenna and the radio port on the equipment that needs to be protected
3. The output interface is connected with the radio equipment that requires protection
4. The Ground Earthing tag must be connected to a suitable ground safety earth. If in doubt, consult a qualified electrician.
5. Connect the radio devices to the RF ports using suitable RF cables such as LMR200, LMR400, LMR600, and equivalents
6. Ensure any outdoor cables are weatherproof external-grade cables

Product Photograph



Disclaimer:

As with all commercial surge protectors, this product is intended to prevent damage due to power surges, ESD events and indirect lightning strikes but cannot guarantee full protection in every case especially direct lightning strikes. A direct strike can contain 5 billion joules, which over 10 microseconds is equal to 500 trillion watts. Ensure you carefully earth and ground all outdoor equipment in accordance with regulations.

Wireless Excellence does not accept responsibility for damage caused by direct strikes or 3rd party installations

T: +44 (0870) 495 9169
F: +44 (0871) 918 7618
E: sales@cablefree.net
W: www.cablefree.net

Wireless Excellence Limited
The Oxford Science Park,
G6, Magdalen Centre
Robert Robinson Avenue,

Note: This product cannot guarantee full protection in every case especially direct lightning strikes
Wireless Excellence retains rights to amend product specifications at any time without notice