



RF Equipment Protection High Power

Novaris high power surge protectors suit applications including MF, HF and VHF transmitters to 50kW. The spark gap arrester has an optical arc sensor which may be used to momentarily interrupt the transmitter.

Product Series **CEIA - 078 - 1** Options
 Connector Size _____

CEIA-078

CEIA-158

CEIA-318



Electrical Specifications	
Connection type	Series
Modes of protection	Signal-Earth
Maximum discharge current (8/20µs)	I_{max} 100kA
Power rating	>50kW limited only by coaxial cable
Surge element	Spark gap, gap setting: 2mm / 10kW
Spark over voltage	2.6kV for 2mm gap
Characteristic impedance	50Ω
Insertion loss	<0.1dB to 500MHz <0.2db to 1GHz (gap setting: 1mm)
Return loss	>26dB to 500MHz >20dB to 1GHz (gap setting: 1mm)
Arc sensor	Optical detector utilising photodiode, feeding transmitter interface to provide momentary shutdown
Power requirements	Arc sensor: 12VDC @ 35mA
Transmission medium	Arc detector fed to transmitter via optic fibre. Alternate metallic cable available.

Mechanical Specifications	
Operating temperature / humidity	-40 to +85°C / 0 to 90% non-condensing
Connection type	7/8" EIA 1 5/8" EIA 3 1/8" EIA
Mounting	Bulkhead / flange
Environmental	IP 55
Enclosure	Brass and copper

Options	
Spark gap only, no TX controller	Standard
1RU 19" rack, one TX controller only	1
3RU 19" rack, up to 14 TX controllers	n*

* Denotes number of TX controllers

Standards Compliance
ITU-T K.44
AS/NZS 1768
IEEE C62.41
BS 6651
CP 33
IEC 61643-21
UL497B