

## RF Equipment Protection up to 3GHz

Novaris gas discharge surge protectors are capable of passing RF signals to 3GHz (limited by connector type). N-type female / female protectors are suitable for bulkhead mounting.



C N - FF - 90 - 3 - [\*]

Product Series \_\_\_\_\_  
 Connector \_\_\_\_\_  
 Gender \_\_\_\_\_ Options  $f_c$   $U_c$

CN-MF-90-3    CN-FF-90-3    CN-MF-230-3    CN-FF-230-3    CN-MF-350-3    CN-FF-350-3    CN-MF-600-3    CN-FF-600-3    CN-MF-1000-3    CN-FF-1000-3

Electrical Specifications											
Connection type		Series									
Modes of protection		Signal-Earth									
Sparkover voltage	$U_c$	90VDC	230VDC	350VDC	600VDC	1000VDC					
Maximum discharge current (8/20 $\mu$ s)	$I_{max}$	20kA									
Power rating		0 - 40W	40 - 125W	125 - 300W	300-800W	800-2000W					
Maximum working frequency	$f_c$	3GHz									
Voltage protection level @ 5kV (10/700 $\mu$ s)	$U_p$	<650V	<820V	<1.1kV	<1.3kV	<1.8kV					
Impulse durability		C2 8/20 $\mu$ s, 5kA, 10 times									
Overstressed fault mode		Mode 3									
Characteristic impedance		50 $\Omega$ (75 $\Omega$ F-type and BNC)									
Capacitance (line-shield @1MHz)		<1pF									
VSWR		<1.1:1									
Return loss		>26dB									
Insertion loss		<0.1dB									

Mechanical Specifications											
Operating temperature / humidity		-40 to +85°C / 5 to 95% non-condensing									
Connection type		N-type									
Connection orientation		M / F	F / F	M / F	F / F	M / F	F / F	M / F	F / F	M / F	F / F
Mounting		Inline / bulkhead (N-type only)									
Environmental		IP 55									
Enclosure / colour		Brass / Nickel Plated									
Weight		150g									

Connector type variation											
BNC		B									
7/16 DIN		D (Mounting bracket not available)									
F-type		-	F	-	F	-	F	-	F	-	F
N-type (bulkhead mount female)		N	Standard	N	Standard	N	Standard	N	Standard	N	Standard
UHF		U									
SMA		S									

Dimensions												
Configuration		CB-MF	CB-FF	CD-MF	CD-FF	CF-FF	CN-MF	CN-FF	CU-MF	CU-FF	CT-MF	CT-FF
Width		25mm		Ø40mm		25mm						
Height		25mm		25mm								
Maximum length		58mm	52mm	70mm	73mm	50mm	60mm	60mm	57mm	54mm		

### Options [\*]

90° mounting bracket	M
DIN rail mounting clip	D
G rail mounting clip	G
Earth stud	E

### Standards Compliance

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