

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 _____ Options
 Connector _____ f_c
 Gender _____ 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 (8/20μs)	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 (10/700μs)	U _p	<650V	<820V	<1.1kV	<1.3kV	<1.8kV
Impulse durability		C2 8/20μs, 5kA, 10 times				
Overstressed fault mode		Mode 3				
Characteristic impedance		50Ω (75Ω 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