



Description: Adaptor, BNC female – F male.

## DATA SHEET

### Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 $\Omega$ nominal			
	Better Than	Measured – Worst case of 5 measurements		
Return Loss Gated of BNCF-FM	22 dB	$\geq 25.7$ dB	5 MHz – 500 MHz	IEC 61169-1
	21 dB	$\geq 24.0$ dB	500 MHz – 860 MHz	
	20 dB	$\geq 23.3$ dB	860 MHz – 1.000 MHz	
	17 dB	$\geq 20.5$ dB	1.000 MHz – 1.750 MHz	
	16 dB	$\geq 19.4$ dB	1.750 MHz – 2.150 MHz	
	14 dB	$\geq 17.8$ dB	2.150 MHz – 3.000 MHz	
	19 dB	$\geq 22.4$ dB	1.218 MHz	
Insertion Loss	0.13 dB	$\leq 0.1$ dB	5 MHz – 3.000 MHz	
Shielding Effectiveness (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz		$\leq 0.26$ m $\Omega$ /item	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		$\geq 105.8$ dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		$\geq 101.1$ dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		$\geq 95.2$ dB	IEC 62153-4-4
Common Path Distortion	$\leq -110$ dBc		EN 50117	
Amp. Rating	$\leq 4$ A @ 60 V.			ANSI/SCTE 109 2005
Dielectric Strength	$\geq 2$ kV.			IEC 61169-1
Insulation Resistance	$\geq 29.99$ G $\Omega$ @ 500 V.			IEC 61169-1

### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +60°C	
Temperature range Installation	-5°C to +50°C	

### Mechanical

	Specification	Standard
Interface	BNC female	IEC 61169-8
	F male	IEC 61169-24

### Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Tinbronze	ASTM B605
Insulator	Teflon	

In order to continue to supply the best products, PPC reserves the right to change the products and specifications at any time without prior notice.

### Measurement setup:

Nm-BNCm – **BNCF-FM** – Nm-Ff.

All results are the worst case result of measurement of 5 adaptors.

All tests are performed using instruments calibrated in accordance to our ISO 9001 certification.

Return Loss, Insertion Loss and Shielding are measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards.

CPD (Common Path Distortion) are measured with hp Spectrum Analyzer hp 8591E, according to SCTE standard.

In case of over current ( $\geq 4$  A.) there is a risk for high temperature inside the adaptor, which can cause damage of the insulator.

Further test reports, technical specifications and installation instructions can be obtained on request.

