



Description: Adaptor, BNC female – F male Push On.

## 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	35 dB	$\geq 38.4$ dB	5 MHz – 500 MHz	IEC 61169-1
	34 dB	$\geq 37.0$ dB	500 MHz – 860 MHz	
	33 dB	$\geq 36.5$ dB	860 MHz – 1.000 MHz	
	20 dB	$\geq 23.2$ dB	1.000 MHz – 1.750 MHz	
Insertion Loss	0.08 dB	$\leq 0.05$ dB	5 MHz – 500 MHz	
	0.10 dB	$\leq 0.07$ dB	500 MHz – 860 MHz	
	0.10 dB	$\leq 0.07$ dB	860 MHz – 1.000 MHz	
	0.16 dB	$\leq 0.13$ dB	1.000 MHz – 1.750 MHz	
Shielding Effectiveness (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz $\leq 3.9$ m $\Omega$ /item			IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz $\geq 91.1$ dB			IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz $\geq 88.1$ dB			IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz $\geq 86.7$ dB Class: A			IEC 62153-4-4 EN 50117
Common Path Distortion	$\leq -110$ dBc			ANSI/SCTE 109 2005
Amp. Rating	$\geq 4$ A. @ 60 V.			
Dielectric Strength	$\geq 2$ KV.			IEC 61169-1
Insulation Resistance	$\geq 29.99$ M $\Omega$ @ 500 V.			IEC 61169-1

### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +60°C	
Corrosion Protection		ASTM B 117-94

### Mechanical

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

### Material and Finish

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

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-Ff, EX6-0,5 m. cable-EX6, Ff-Ff - **BNCFFM-PUSHON** - BNCM-0,5 m cable-EX6,Nm-Ff.

All Measured results are the worst case of measurement on 5 adaptors.

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

Return Loss (Is measured as a Time Domain Measurement of Return Loss of the Adaptor) and Insertion Loss is measured with Network Analyzer hp 8753D and S-Parameter Test Set 85047A, according to IEC standards.

Shielding Effectiveness are measured with Network Analyzer hp 8753D and S-Parameter Test Set 85047A and CoMeT Tube, according to IEC standards.

CPD (Common Path Distortion) are measured with hp Spectrum Analyzer hp 8591E, according to ANSI/SCTE 109 2005 standard, in a period of 10 minutes.

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

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