



Description: Hardline Connector, E120-FF.  
(Measured with TCF TX1015 Cable)

### DATA SHEET

#### Electrical

	Specification		Standard
Frequency Range	5 MHz – 3.000 MHz		
Impedance	75 Ω nominal		
	Better Than	Measured – Worst case of 5 measurements	
Return Loss Gated of E120-FF	34 dB	≥ 37.0 dB	IEC 61169-1
	30 dB	≥ 33.7 dB	
	29 dB	≥ 32.2 dB	
	22 dB	≥ 25.8 dB	
	18 dB	≥ 21.9 dB	
	14 dB	≥ 17.0 dB	
	27 dB	≥ 30.1 dB	
Insertion Loss	0.13 dB	≤ 0.10 dB	5 MHz – 3.000 MHz
Shielding Effectiveness of Assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 1.23 mΩ/item		IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 102.6 dB		IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 87.3 dB		IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 96.8 dB		IEC 62153-4-4
Common Path Distortion	≤ -110 dBc		ANSI/SCTE 109 2005
Inner Conductor Resistance	≤ 2.0 mΩ @ 1 A DC.		IEC 61169-1
Amp. Rating	≤ 4 A @ 60 V.		
Dielectric Strength	≥ 3 kV.		IEC 61169-1
Insulation Resistance	≥ 29.99 GΩ @ 500 V.		IEC 61169-1

#### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +65°C	
Temperature range Installation	-5°C to +50°C	
Sealing Test	IPX8 – 1 meter / 24 hours	IEC 60529
Red Dye		ANSI/SCTE 60
Corrosion Protection		ASTM B 117-94

#### Mechanical

	Specification	Standard
Interface	F female	IEC 61169-24
Cable Retention	≥ 80 kgf	ANSI/SCTE 99

#### Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Tinbronze	ASTM B605
Compression ring	NiSn (NITIN) plated Brass	ASTM B605
O'ring	EPDM	
Insulator	Polycarbonate/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-58f, 58m-Fm, E120-FF – Cable – E120-FF, 58m-Fm, Nm-58f

All measurements are done with Times Fiber TFC TX1015 cable, length 0.8 meter.

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

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 connector, which can cause damage of the insulator, and / or the cable.

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

