



Description: Hardline Connector, G003 – F female, Chassis mount.
(Measured with Bedea Telass LR 3.3/13.5 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	18 dB 22 dB 21 dB 16 dB 15 dB 15 dB	≥ 21.4 dB ≥ 25.1 dB ≥ 23.7 dB ≥ 19.2 dB ≥ 18.7 dB ≥ 18.7 dB	5 MHz – 500 MHz 500 MHz – 860 MHz 860 MHz – 1.000 MHz 1.000 MHz – 1.750 MHz 1.750 MHz – 2.150 MHz 2.150 MHz – 3.000 MHz IEC 61169-1
Insertion Loss of assembly	0.20 dB 0.26 dB 0.29 dB 0.45 dB 0.49 dB 0.50 dB	≤ 0.17 dB ≤ 0.23 dB ≤ 0.26 dB ≤ 0.42 dB ≤ 0.46 dB ≤ 0.47 dB	5 MHz – 500 MHz 500 MHz – 860 MHz 860 MHz – 1.000 MHz 1.000 MHz – 1.750 MHz 1.750 MHz – 2.150 MHz 2.150 MHz – 3.000 MHz
Shielding Effectiveness of assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0.45 mΩ/item Screening Attenuation @ 30 – 1.000 MHz ≥ 112.4 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ 115.5 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ 112.0 dB Class: A++		IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4 EN 50117
Common Path Distortion	≤ -110 dBc		ANSI/SCTE 109 2005
Amp. Rating	≤ 4 A @ 60 V.		
Dielectric Strength	≥ 2 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
Pull Strength	≥ 150 kgf	ANSI/SCTE 99

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Brass & Au (Gold) plated Brass	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-Fm, **G003-FF-C-S** – 1 m. cable – **G003-FF-C-S**, Nm Fm.

All measurements are done with G003-FF-C-S mounted on Bedea Telass LR 3.3/13.5 cable, length 1.0 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 (≥ 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.

Insertion Force & Withdrawal Force of centre conductor of
G003-FF-C-S

According to Standard: IEC 61169-24

Test	1	2	3	4	5	6	
Gauge	0,635	0,850	1,136	0,635	1,136	0,635	mm
Connector #1							
Insert	4,798	14,508	19,138	3,045	17,342	2,708	N
Pull Out	0,903	1,957	6,046	0,871	6,794	0,668	N
Connector #2							
Insert	3,780	10,479	19,447	2,535	16,677	2,286	N
Pull Out	0,874	1,642	6,172	0,817	6,430	0,714	N
Connector #3							
Insert	5,988	13,203	19,308	3,537	18,247	2,757	N
Pull Out	1,528	1,900	6,380	1,009	6,610	0,923	N
Connector #4							
Insert	3,301	10,860	17,442	3,179	17,676	2,430	N
Pull Out	1,185	2,312	6,332	1,013	6,576	0,805	N
Connector #5							
Insert	5,737	10,731	19,735	3,225	17,425	2,987	N
Pull Out	1,155	1,981	7,428	0,927	6,732	0,926	N