



Description: Hardline Connector, A025 – F male.
(Measured with PPC Perfect Flex P6QVRM 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 A025-FM	34 dB 34 dB 33 dB 29 dB 27 dB 25 dB	≥ 37.2 dB ≥ 37.0 dB ≥ 36.4 dB ≥ 32.5 dB ≥ 30.7 dB ≥ 28.0 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
Return Loss of assembly	23 dB 22 dB 22 dB 20 dB 17 dB 13 dB	≥ 26.3 dB ≥ 25.5 dB ≥ 27.7 dB ≥ 23.0 dB ≥ 20.0 dB ≥ 16.2 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	0.11 dB 0.23 dB 0.29 dB 0.33 dB 0.51 dB 0.62 dB	≤ 0.08 dB ≤ 0.20 dB ≤ 0.26 dB ≤ 0.30 dB ≤ 0.48 dB ≤ 0.59 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 A025-FM (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0.69 mΩ/item Screening Attenuation @ 30 – 1.000 MHz ≥ 107.3 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ 95.6 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ 85.6 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
Inner Conductor Resistance	≤ 10 mΩ @ 1 A DC.			IEC 61169-1
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 male	IEC 61169-24
Cable Retention	≥ 15 kgf	ANSI/SCTE 99

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Tinbronze	ASTM B605
O'ring	EPDM	
Insulator	Teflon & 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, **A025-FM** – Cable – **A025-FM**, Nm-Ff.

All measurements are done with PPC Perfect Flex P6QVRM 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.

