Item Number:
A025-FM

Praesto, February 10, 2015 – Rev. 00

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	≥ 37.2 dB	5 MHz – 500 MHz	IEC 61169-1
	34 dB	≥ 37.0 dB	500 MHz – 860 MHz	
	33 dB	≥ 36.4 dB	860 MHz – 1.000 MHz	
	29 dB	≥ 32.5 dB	1.000 MHz – 1.750 MHz	
	27 dB	≥ 30.7 dB	1.750 MHz – 2.150 MHz	
	25 dB	≥ 28.0 dB	2.150 MHz – 3.000 MHz	
Return Loss of assembly	23 dB	≥ 26.3 dB	5 MHz – 500 MHz	IEC 61169-1
	22 dB	≥ 25.5 dB	500 MHz – 860 MHz	
	22 dB	≥ 27.7 dB	860 MHz – 1.000 MHz	
	20 dB	≥ 23.0 dB	1.000 MHz – 1.750 MHz	
	17 dB	≥ 20.0 dB	1.750 MHz – 2.150 MHz	
	13 dB	≥ 16.2 dB	2.150 MHz – 3.000 MHz	
Insertion Loss of Assembly	0.11 dB	≤ 0.08 dB	5 MHz – 500 MHz	
	0.23 dB	≤ 0.20 dB	500 MHz – 860 MHz	
	0.29 dB	≤ 0.26 dB	860 MHz – 1.000 MHz	
	0.33 dB	≤ 0.30 dB	1.000 MHz – 1.750 MHz	
	0.51 dB	≤ 0.48 dB	1.750 MHz – 2.150 MHz	
	0.62 dB	≤ 0.59 dB	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	

PPC Denmark
Branch of PPC Broadband Inc., a Belden Brand
Vaerkstedsvej 14
4720 Praesto
DENMARK

Tel: +45 5599 1722
Fax: +45 5599 2722
Email: ppceurope@ppc-online.com
URL: www.ppc-online.com – www.ppc.dk

Item Number:
A025-FM

Praesto, February 10, 2015 – Rev. 00

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.

PPC Denmark
Branch of PPC Broadband Inc., a Belden Brand
Vaerkstedsvej 14
4720 Praesto
DENMARK

Tel: +45 5599 1722
Fax: +45 5599 2722
Email: ppceurope@ppc-online.com
URL: www.ppc-online.com – www.ppc.dk