



Description: Hardline Connector, A025 – IEC male.  
(Measured with PPC Perfect Flex P6CT77VRM Cable)

### 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 Gated of A025-IECM	26 dB	$\geq 29.9$ dB	IEC 61169-1
	24 dB	$\geq 27.2$ dB	
	23 dB	$\geq 26.1$ dB	
	17 dB	$\geq 20.6$ dB	
	14 dB	$\geq 17.8$ dB	
	11 dB	$\geq 14.3$ dB	
Return Loss of assembly	25 dB	$\geq 28.7$ dB	IEC 61169-1
	24 dB	$\geq 27.5$ dB	
	22 dB	$\geq 25.7$ dB	
	12 dB	$\geq 15.2$ dB	
	8 dB	$\geq 11.1$ dB	
	5 dB	$\geq 8.3$ dB	
Insertion Loss	0.13 dB	$\leq 0.1$ dB	5 MHz – 3.000 MHz
Shielding Effectiveness of A025-IECM (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz $\leq 0.65$ m $\Omega$ /item		IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz $\geq 105.5$ dB		IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz $\geq 97.9$ dB		IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz $\geq 96.8$ dB		IEC 62153-4-4
	Class: A++		EN 50117
Common Path Distortion	$\leq -110$ dBc		ANSI/SCTE 109 2005
Inner Conductor Resistance	$\leq 7$ m $\Omega$ @ 1 A DC.		IEC 61169-1
Amp. Rating	$\leq 4$ A @ 60 V.		
Dielectric Strength	$\geq 2$ kV.		IEC 61169-1
Insulation Resistance	$\geq 29.99$ G $\Omega$ @ 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	IEC male	IEC 61169-2
Cable Retention	$\geq 15$ kgf	ANSI/SCTE 99

#### Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) Plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) Plated Brass	ASTM B605
O'ring	EPDM	
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-58f, 58m-IECf, - **A025-IECM** – Cable – **A025-IECM**, 58m-IECf, Nm-58f.

All measurements are done with PPC Perfect Flex P6CT77VRM cable, length 0.5 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 ( $\geq 8$  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.

