



Description: Hardline Connector, D015 – IEC male.  
(Measured with Bedea Telass LR 2.2/8.8 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 D015-IECM	30 dB	$\geq 33.2$ dB	5 MHz – 500 MHz	IEC 61169-1
	26 dB	$\geq 29.5$ dB	500 MHz – 860 MHz	
	25 dB	$\geq 28.3$ dB	860 MHz – 1.000 MHz	
	19 dB	$\geq 22.8$ dB	1.000 MHz – 1.750 MHz	
	17 dB	$\geq 20.7$ dB	1.750 MHz – 2.150 MHz	
	14 dB	$\geq 17.7$ dB	2.150 MHz – 3.000 MHz	
	23 dB	$\geq 26.4$ dB	1.218 MHz	
Insertion Loss	0.13 dB	$\leq 0.10$ dB	5 MHz – 3.000 MHz	
Shielding Effectiveness of assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz		$\leq 0.18$ m $\Omega$ /m	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		$\geq 123.7$ dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		$\geq 126.0$ dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		$\geq 124.4$ dB	IEC 62153-4-4
Common Path Distortion	$\leq -110$ dBc		EN 50117	
Inner Conductor Resistance	$\leq 1.5$ m $\Omega$ @ 1 A DC.		ANSI/SCTE 109 2005	
Amp. Rating	$\leq 8$ A @ 60 V.		IEC 61169-1	
Dielectric Strength	$\geq 3$ 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	$\geq 125$ kgf	ANSI/SCTE 99

### Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Pin	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-IECf – **D015-IECM** – 65 cm cable – **D015-IECM**, 58m-IECf, Nm-58f.

All measurements are done with Bedea Telass LR 2.2/8.8 cable, length 0.65 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.

