



Description: Hardline Connector, G009 – IEC male.  
(Measured with Commscope CA 516 J Cable)

## DATA SHEET

### Electrical

	Specification		Standard
Frequency Range	5 MHz – 3.000 MHz		
Impedance	75 $\Omega$ nominal		
	Better Than	Measured – Worst case of 4 measurements	
Return Loss Gated of D015-58MS	28 dB 28 dB 27 dB 23 dB 21 dB 18 dB 26 dB	$\geq$ 31.9 dB $\geq$ 31.1 dB $\geq$ 30.5 dB $\geq$ 26.8 dB $\geq$ 24.8 dB $\geq$ 21.0 dB $\geq$ 29.5 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 1.218 MHz IEC 61169-1
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 $\leq$ 0.28 m $\Omega$ /m Screening Attenuation @ 30 – 1.000 MHz $\geq$ 124.5 dB Screening Attenuation @ 1.000 – 2.000 MHz $\geq$ 125.5 dB Screening Attenuation @ 2.000 – 3.000 MHz $\geq$ 104.2 dB		IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4
Screening Class of G009-IECM	A++		EN 50117
Common Path Distortion	$\leq$ -110 dBc		ANSI/SCTE 109 2005
Inner Conductor Resistance	$\leq$ 1.5 m $\Omega$ @ 1 A DC.		IEC 61169-1
Amp. Rating	$\leq$ 8 A @ 60 V.		
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
Inner conductor	NiSn (NITIN) plated Brass	ASTM B605
Compression Ring	NiSn (NITIN) plated Brass	
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 – **G009-IECM** – 1 m. cable – **G009-IECM** – 58m-IECf, Nm-58f.

All measurements are done with Commscope CA 516 J cable, length 0.4 meter.

All results are the worst case result of measurement of 4 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.

