



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 Ω 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 Ω /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 Ω @ 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 Ω @ 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 (≥ 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.

