



Description: Hardline Connector, G052 – 5/8 Male.
(Measured with Commscope QR540 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 of assembly	24 dB	≥ 27.7 dB	IEC 61169-1
	20 dB	≥ 23.4 dB	
	20 dB	≥ 23.5 dB	
	20 dB	≥ 23.3 dB	
	20 dB	≥ 27.6 dB	
	19 dB	≥ 22.2 dB	
Gated Return Loss Connector	30 dB	≥ 33.3 dB	IEC 61169-1
	25 dB	≥ 28.5 dB	
	25 dB	≥ 28.0 dB	
	25 dB	≥ 28.0 dB	
	25 dB	≥ 35.6 dB	
	25 dB	≥ 28.9 dB	
Insertion Loss	0.13 dB	≤ 0.10 dB	5 MHz – 3.000 MHz
Shielding Effectiveness of assembly (Measured with CoMet)	Transfer Impedance @ 5 – 30 MHz ≤ 0.09 m Ω /m		IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 123.6 dB		IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 130.2 dB		IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 127.2 dB		IEC 62153-4-4
Common Path Distortion	Class: A++		EN 50117
Common Path Distortion	≤ -110 dBc		ANSI/SCTE 109 2005
Inner Conductor Resistance	≤ 1.0 m Ω @ 1 A DC.		IEC 61169-1
Amp. Rating	≤ 15 A.		
Dielectric Strength	≥ 3 kV.		IEC 61169-1
Insulation Resistance	≥ 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
Corrosion Protection		ASTM B 117-94

Mechanical

	Specification	Standard
Interface	5/8 male	IEC 61169-24
Cable Retention	≥ 200 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	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, **G052-58M** – Cable – **G052-58M**, Nm-58f

All measurements are done with customer Commscope QR540-ACT cable, length 0.8m meter.

All results are the worst case result of measurement of only 1 assembly.

All tests are performed using instruments calibrated in accordance to 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 Rohde & Schwarz FPC1000 Spectrum Analyzer according to SCTE standard.

In case of over current (≥ 15 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 by request.

