



Description: Hardline Connector, G052 – 5/8 Male with plastic tube.  
(Measured with Commscope QR540 ASS 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	22 dB 17 dB 16 dB 15 dB	≥ 25.1 dB ≥ 20.2 dB ≥ 19.0 dB ≥ 18.2 dB	5 MHz – 500 MHz 500 MHz – 860 MHz 860 MHz – 1.000 MHz 1.000 MHz – 1.750 MHz	IEC 61169-1, 9.2.1.4
Gated Return Loss of G052-5/8M	27 dB 22 dB 21 dB 20 dB	≥ 30.0 dB ≥ 25.3 dB ≥ 24.4 dB ≥ 23.4 dB	5 MHz – 500 MHz 500 MHz – 860 MHz 860 MHz – 1.000 MHz 1.000 MHz – 1.750 MHz	IEC 61169-1, 9.2.1.4
Insertion Loss of Assembly	0.05 dB 0.07 dB 0.10 dB 0.11 dB	≤ 0.02 dB ≤ 0.04 dB ≤ 0.07 dB ≤ 0.08 dB	5 MHz – 500 MHz 500 MHz – 860 MHz 860 MHz – 1.000 MHz 1.000 MHz – 1.750 MHz	
Shielding Effectiveness - Measured with CoMeT	Transfer Impedance @ 5 – 30 MHz ≤ 0.7 mΩ/item			IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 101.2 dB			IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 98.8 dB			IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 94.4 dB			IEC 62153-4-4
	Class: A+			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Amp. Rating	≤ 15 A. @ 60 V.			
Dielectric Strength	≥ 3 KV.			IEC 61169-1, 9.2.1.6
Insulation Resistance	≥ 29.99 GΩ @ 500 V.			IEC 61169-1, 9.2.1.5

### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +85°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	5/8 male	ANSI/SCTE 92
Pull Strength	≥ 125 kgf	ANSI/SCTE 99

### Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Compression ring	NiSn (NITIN) plated Brass	ASTM B605
Mandrel	NiSn (NITIN) plated Brass	ASTM B605
Mandrel Insulator	Polyester	
Inner Conductor	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:**

**G052-58M-T – Cable – G052-58M-T.**

All measurements are done with Commscope QR540 ASS cable.

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

Return Loss, Gated Return Loss (Time Domain Measurement of Return Loss of 1 connector in setup) Insertion Loss and Shielding are measured with hp Network Analyzer hp 8753D and S-Parameter Test Set 85047A, according to IEC standards.

CPD (Common Path Distortion) are measured with hp Spectrum Analyzer hp 8591E, according to ANSI/SCTE standard.

In case of over current ( $\geq 15$  A.) there is a risk for high temperature inside the connector, which will cause damage of the insulator and / or the cable.

