



Description: Hardline connector, G003 to 5/8" male with swivel  
(Measured with DRAKA COAX 3 CT 33 S cable.)

## DATA SHEET

### Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
	Better Than	Measured – Worst case of 2 measurements		
Return Loss Gated of G003-58MS connector	30 dB	≥33,7 dB	5 MHz – 500 MHz	IEC 61169-1
	25 dB	≥28,3 dB	500 MHz – 860 MHz	
	24 dB	≥27,6 dB	860 MHz – 1.000 MHz	
	24 dB	≥27,6 dB	1.000 MHz – 1.750 MHz	
	23 dB	≥26,2 dB	1.750 MHz – 2.150 MHz	
	18 dB	≥21,0 dB	2.150 MHz – 3.000 MHz	
	N/A	28,4 dB	1218 MHz	
Return Loss Assembly	24 dB	≥27,5 dB	5 MHz – 500 MHz	IEC 61169-1
	20 dB	≥23,7 dB	500 MHz – 860 MHz	
	19 dB	≥22,4 dB	860 MHz – 1.000 MHz	
	19 dB	≥22,1 dB	1.000 MHz – 1.750 MHz	
	17 dB	≥20,8 dB	1.750 MHz – 2.150 MHz	
	13 dB	≥16,0 dB	2.150 MHz – 3.000 MHz	
	N/A	24,4 dB	1.218 MHz	
Shielding Effectiveness Assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz		≤ 0,09 mΩ/m	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		≥ -118,2 dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ -117,4 dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ -111,7 dB	IEC 62153-4-4
Class: A++.			EN 50117	
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Amp. Rating	≤ 16 A.			
Dielectric Strength	≥ 3 kV.			IEC 61169-1
Insulation Resistance	≥ 29.99 GΩ @ 500 V.			IEC 61169-1

### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +60°C	
Corrosion Protection		ASTM B 117-94
Sealing Test	IPX8 – 1 meter/ 24 hours	IEC 60529

### Mechanical

	Specification	Standard
Interface	5/8" male	ANSI/SCTE 92
Cable Retention	≥ 180 kgf	ANSI/SCTE 99

### Material and finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Brass	ASTM B605
O rings	EPDM	
Insulators	Polycarbonate / PEHD	

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:**

TA-NM-58F – **G003-58MS**, cable 1.0 m, **G003-58MS** - TA-NM-58F

All measurements are done with DRAKA COAX 3 CT 33S cable, length 1.0 m.

All results are worst case of 5 jumpers.

All tests are performed using instruments calibrated in accordance to ISO 9001 certification.

Return Loss, Insertion Loss and Shielding are measured with Rohde & Schwarz ZNB-8 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 ( $\geq 16$  A.) there is a risk of high temperature inside connector, which could cause damage to the cable.

Further test reports, technical specifications and installation instructions can be obtained on request.

