



Description: Hardline Splicer G052-G003.
(Measured with Draka coax3 CT33 S Cable).

DATA SHEET

Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
	Better Than	Measured – Worst case of 5 measurements		
Return Loss (Assembly)	-22 dB -18 dB -17 dB -16 dB -19 dB -14 dB N/A	-25,3 dB -21,7 dB -20,9 dB -19,7 dB -22,9 dB -17,3 dB -27,3 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 1218 MHz	IEC 61169-1
Return Loss (Gated G003-SPL)	-29 dB -27 dB -27 dB -26 dB -27 dB -29 dB N/A	-32,8 dB -30,6 dB -30,7 dB -29,4 dB -30,8 dB -32,1 dB -29,7 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 1218 MHz	IEC 61169-1
Insertion Loss	0.13 dB	0.1 dB		
Shielding Effectiveness (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0,09 mΩ/m Screening Attenuation @ 30 – 1.000 MHz ≥ -112,8 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ -110,4 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ -114,6 dB Class: A ++			IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4 EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Inner Conductor Resistance	≤ 1 mΩ @ 1 A DC.			IEC 61169-1
Amp. Rating	≤ 15 A.			
Dielectric Strength	≥ 2 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	
Temperature range Instalation	-5°C to +50°C	
Sealing Test	IPX8-1 meter / 24 hours	IEC 60529
Corrosion Protection		ASTM B 117-94

Mechanical

	Specification	Standard
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
Compression ring	NiSn (NITIN) plated Brass	
O ring	EPDM	
Insulator	PEHD/Polycarbonate	

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 – G003-58M, Cable – **G003-SPL** – Cable, G003-58M - TA-NM-58F

All measurements are done with Draka coax 3 CT33 S cable, length 0.5 meter.

All results are worst case of 5 samples.

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 (≥ 15 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.

