



Description: Quad Shield RG59 Perfect Flex Jumper, SignalTight F male – F male, Length 1.5 m (59”).

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	28 dB 32 dB 31 dB 24 dB 20 dB 15 dB	≥ 31.4 dB ≥ 35.0 dB ≥ 34.7 dB ≥ 27.3 dB ≥ 23.3 dB ≥ 18.9 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	IEC 61169-1
Gated Return Loss of F male	28 dB 29 dB 29 dB 28 dB 27 dB 27 dB	≥ 31.2 dB ≥ 32.2 dB ≥ 32.7 dB ≥ 31.2 dB ≥ 30.7 dB ≥ 30.6 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	IEC 61169-1
Insertion Loss	0.38 dB 0.47 dB 0.52 dB 0.67 dB 0.76 dB 0.91 dB	≤ 0.35 dB ≤ 0.44 dB ≤ 0.49 dB ≤ 0.64 dB ≤ 0.73 dB ≤ 0.88 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	
Shielding Effectiveness (Measured with CoMet)	Transfer Impedance @ 5 – 30 MHz ≤ 0.9 mΩ/m Transfer Impedance @ 5 – 30 MHz ≤ 1.3 mΩ/item Screening Attenuation @ 30 – 1.000 MHz ≥ 105.8 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ 101.2 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ 95.5 dB Class: A ++			IEC 62153-4-3 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
Amp. Rating	≥ 4 A @ 60 V.			
Dielectric Strength	≥ 2 KV.			IEC 61169-1
Insulation Resistance	≥ 29.99 MΩ @ 500 V.			IEC 61169-1

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
Corrosion Protection		ASTM B 117-94

Mechanical

	Specification	Standard
Interface	F male	IEC 61169-24
Cable Retention	≥ 25 kgf	ANSI/SCTE 99

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
O'ring	EPDM	

Cable: PPC Perfect Flex (P59QVVRF)

	Construction	
Cable type	Quad Shield	
Jacket	Flame Retardant PVC – White	
Braid	Aluminium Wires	
Shield	Aluminium/Polymer/ Aluminium Foil	
Dielectric	Polyethylene	
Inner conductor	Copper Covered Steel	
Screening Class	A++	EN50117

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-Ff – **JPLUS59Q59W** – Nm-Ff.

All results are the worst case result of measurement of 5 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 (≥ 4 A.) there is a risk for high temperature inside the connector, which can cause damage on the cable.

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

