



Description: 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	35 dB 31 dB 29 dB 22 dB 19 dB 14 dB	\geq 38.4 dB \geq 34.6 dB \geq 32.3 dB \geq 25.6 dB \geq 22.6 dB \geq 17.2 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	30 dB 30 dB 30 dB 30 dB 30 dB	\geq 33.5 dB \geq 34.1 dB \geq 34.4 dB \geq 33.4 dB \geq 33.1 dB \geq 33.0 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	0.34 dB 0.43 dB 0.47 dB 0.63 dB 0.70 dB 0.83 dB	\leq 0.31 dB \leq 0.40 dB \leq 0.44 dB \leq 0.60 dB \leq 0.67 dB \leq 0.80 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 \leq 3.3 m Ω /m Transfer Impedance @ 5 – 30 MHz \leq 4.9 m Ω /item Screening Attenuation @ 30 – 1.000 MHz \geq 96.0 dB Screening Attenuation @ 1.000 – 2.000 MHz \geq 92.4 dB Screening Attenuation @ 2.000 – 3.000 MHz \geq 91.0 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	\leq -110 dBc			ANSI/SCTE 109 2005
Amp. Rating	\geq 4 A @ 60 V.			
Dielectric Strength	\geq 2 KV.			IEC 61169-1
Insulation Resistance	\geq 29.99 M Ω @ 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	\geq 25 kgf	ANSI/SCTE 99

Material and Finish

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

Cable: PPC Perfect Flex (P59T77VYBF)

	Construction	
Cable type	Trishield	
Jacket	Flame Retardant PVC – White	
Braid	Aluminium Wires	
1st & 3rd Shield	Aluminium/Polymer/ Aluminium Foil	
Dielectric	Polyethylene	
Inner conductor	Copper Covered Steel	

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 – **JPLUS59T59W** – 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.

