



Description: Jumper, Full Copper cable, SignalTight® F male, length 0.50 m (20").

## DATA SHEET

### Electrical

	Specification			Standard
<b>Frequency Range</b>	5 MHz – 3.000 MHz			
<b>Impedance</b>	75 Ω nominal			
	<b>Better Than</b>	<b>Measured – Worst case of 5 measurements</b>		
<b>Return Loss</b>	27 dB	≥ 30.9 dB	5 MHz – 500 MHz	IEC 61169-1
	26 dB	≥ 29.6 dB	500 MHz – 860 MHz	
	24 dB	≥ 27.6 dB	860 MHz – 1.000 MHz	
	20 dB	≥ 23.3 dB	1.000 MHz – 1.750 MHz	
	19 dB	≥ 22.4 dB	1.750 MHz – 2.150 MHz	
	17 dB	≥ 20.1 dB	2.150 MHz – 3.000 MHz	
	22 dB	≥ 25.9 dB	1.218 MHz	
<b>Insertion Loss</b>	0.11 dB	≤ 0.08 dB	5 MHz – 500 MHz	
	0.14 dB	≤ 0.11 dB	500 MHz – 860 MHz	
	0.15 dB	≤ 0.12 dB	860 MHz – 1.000 MHz	
	0.19 dB	≤ 0.16 dB	1.000 MHz – 1.750 MHz	
	0.22 dB	≤ 0.19 dB	1.750 MHz – 2.150 MHz	
	0.25 dB	≤ 0.22 dB	2.150 MHz – 3.000 MHz	
	0.16 dB	≤ 0.13 dB	1.218 MHz	
<b>Shielding Effectiveness (Measured with CoMet)</b>	Transfer Impedance @ 5 – 30 MHz		≤ 1.25 mΩ/m	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		≥ 109.1 dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ 100.4 dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ 98.7 dB	IEC 62153-4-4
	Class: A+			EN 50117
<b>Common Path Distortion</b>	≤ -110 dBc			ANSI/SCTE 109 2005
<b>Amp. Rating</b>	≤ 4 A @ 60 V.			
<b>Dielectric Strength</b>	≥ 2 kV.			IEC 61169-1
<b>Insulation Resistance</b>	≥ 29.99 GΩ @ 500 V.			IEC 61169-1

### Environmental

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

### Mechanical

	Specification	Standard
<b>Interface</b>	F male	IEC 61169-24
<b>Cable Retention</b>	≥ 21 kgf	ANSI/SCTE 99

### Material and Finish

	Specification	Standard
<b>Housing</b>	NiSn (NITIN) plated Brass	ASTM B605
<b>O'ring</b>	EPDM	

### Cable - PPC Perfect Flex (P6CBS90QVRM)

	Construction	
<b>Cable type</b>	Standard Shield RG6 series	
<b>Jacket</b>	Flame Retardant PVC – Black – Reach Compliant	
<b>Braid</b>	90% - Copper wires	
<b>1<sup>st</sup> Shield</b>	Copper foil bonded to dielectric	
<b>Dielectric</b>	Foamed PE Dielectric	
<b>Inner conductor</b>	Solid copper	

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 – **JPLUS6SC20-L** – Nm-Ff.

All results are the worst case result of measurement of 5 jumpers.

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 ( $\geq 4$  A.) there is a risk for high temperature inside the connector, which can cause damage of the cable.

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

