



Description: Drop Connector, F male SignalTight™ for 4.9 – 5.1 and PE cables.  
(Measured with Cavell 1.1/4.8 LO 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 of connector - Gated	32 dB	≥ 35.7 dB	IEC 61169-1
	29 dB	≥ 32.1 dB	
	27 dB	≥ 30.9 dB	
	24 dB	≥ 27.8 dB	
	24 dB	≥ 27.3 dB	
	24 dB	≥ 27.2 dB	
Insertion Loss of assembly	0.22 dB	≤ 0.19 dB	
	0.29 dB	≤ 0.26 dB	
	0.32 dB	≤ 0.29 dB	
	0.47 dB	≤ 0.44 dB	
	0.56 dB	≤ 0.53 dB	
	0.73 dB	≤ 0.70 dB	
Shielding Effectiveness of connector (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0.58 mΩ/item		IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 107.0 dB		IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 102.9 dB		IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 97.7 dB		IEC 62153-4-4
Class: A++		EN 50117	
Shielding Effectiveness of assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 9.2 mΩ/m		IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 91.7 dB		IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 96.1 dB		IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 90.6 dB		IEC 62153-4-4
Class: B		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 GΩ @ 500 V.		IEC 61169-1

### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +60°C	
Temperature range Installation	-5°C to +50°C	
Sealing test	IPX8 – 1 meter / 24 hours	
Corrosion Protection		ASTM B 117-94

### Mechanical

	Specification	Standard
Interface	F male	IEC 61169-24
Cable Retention	≥ 21 kgf	ANSI/SCTE 99
Approved compression tool	VT150-Rev 2, VT-300, CT2-AS-EX, EX59/6CAT	

### Material and Finish

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

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, **EX6PEPLUS** – Cable – **EX6PEPLUS**, Nm-Ff.

All measurements are done with Cavel 1,1/4,8 LO cable.

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 effectiveness of assembly are measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 2 connectors mounted on 1 meter cable.

Shielding effectiveness of connector is measured with Rohde & Schwarz ZNB8 Network Analyzer, according to IEC standards, with 1 connector mounted on 1 cm cable.

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 insulator, and / or the cable.

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

