



Description: AquaTight® Drop Connector, F male, for 4.9 – 5.1 and PE cables.  
(Measured with Bedea Coax 9 Cable)

## DATA SHEET

### Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
	Better Than	Measured – Worst result of 5 measurements		
Return Loss of Assembly	28 dB	≥ 31.2 dB	5 MHz – 500 MHz	IEC 61169-1, 9.2.1.4
	24 dB	≥ 27.3 dB	500 MHz – 860 MHz	
	24 dB	≥ 27.2 dB	860 MHz – 1.000 MHz	
	16 dB	≥ 19.9 dB	1.000 MHz – 1.750 MHz	
Gated Return Loss of EX6PE	24 dB	≥ 37.3 dB	5 MHz – 500 MHz	IEC 61169-1, 9.2.1.4
	29 dB	≥ 32.9 dB	500 MHz – 860 MHz	
	28 dB	≥ 31.3 dB	860 MHz – 1.000 MHz	
	22 dB	≥ 25.3 dB	1.000 MHz – 1.750 MHz	
Insertion Loss of Assembly	0.07 dB	≤ 0.04 dB	5 MHz – 500 MHz	
	0.08 dB	≤ 0.05 dB	500 MHz – 860 MHz	
	0.09 dB	≤ 0.06 dB	860 MHz – 1.000 MHz	
	0.13 dB	≤ 0.10 dB	1.000 MHz – 1.750 MHz	
Shielding Effectiveness (Measured with CoMet)	Transfer Impedance @ 5 – 30 MHz		≤ 1.4 mΩ/item	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		≥ 100.3 dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ 99.6 dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ 97.9 dB	IEC 62153-4-4
	Class: A+			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Amp. Rating	≤ 4 A @ 60 V.			
Dielectric Strength	≥ 2 KV.			IEC 61169-1, 9.2.1.6
Insulation Resistance	≥ 29.99 MΩ @ 500 V.			IEC 61169-1, 9.2.1.5

### 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	IEC 60529
Corrosion Protection		ASTM B 117-94

### Mechanical

	Specification	Standard
Interface	F male	IEC 61169-24
Pull Strength	≥ 25 kgf	ANSI/SCTE 99
Approved Compression Tool	VT150DK-rev. 2, VT-300 & CT2-AS-EX	

### Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
O'ring	EPDM	
Continuity Spring	Beryllium Copper	
Weather Seal	Silicone Rubber	

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, **EX6PEWSPLUS** – Bedea Coax 9 Cable – **EX6PEWSPLUS**, Nm-Ff.

Measurements are done on 5 assemblies.

All tests performed using instruments calibrated in accordance to our ISO 9001 certification.

Return Loss, Gated Return Loss (Time Domain Measurement of Return Loss of 1 connector in setup) Insertion Loss and Shielding are measured with hp Network Analyzer hp 8753D and S-Parameter Test Set 85047A, according to IEC standards.

CPD (Common Path Distortion) are measured with hp Spectrum Analyzer hp 8591E, according to ANSI/SCTE standard.

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

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

