



Description: Compression Connector, EX6-49/83, F male.
(Measured with PPC P6T77VVRF 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	30 dB	≥ 33.6 dB	5 MHz – 500 MHz	IEC 61169-1
	29 dB	≥ 32.9 dB	500 MHz – 860 MHz	
	29 dB	≥ 32.5 dB	860 MHz – 1.000 MHz	
	27 dB	≥ 30.8 dB	1.000 MHz – 1.750 MHz	
	26 dB	≥ 29.3 dB	1.750 MHz – 2.150 MHz	
	22 dB	≥ 25.2 dB	2.150 MHz – 3.000 MHz	
	29 dB	≥ 32.0 dB	1.218 MHz	
Insertion Loss	0.13 dB	≤ 0.1 dB	5 MHz – 3.000 MHz	
Shielding Effectiveness of connector (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz		≤ 0.21 m Ω /item	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		≥ 122.3 dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ 121.7 dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ 108.3 dB	IEC 62153-4-4
Common Path Distortion	Class: A++		EN 50117	
Amp. Rating	≤ 4 A @ 60 V.			ANSI/SCTE 109 2005
Dielectric Strength	≥ 2 kV.			IEC 61169-1
Insulation Resistance	≥ 29.99 G Ω @ 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	VT150DK-rev. 2, VT-300 & CT2-AS-EX	

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 - **EX6-49/83** – Cable – **EX6-49/83** – Nm-Ff

All measurements are done with PPC Perfect Flex, P6T77VVRF 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 (≥ 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.

