



Description: Compression Connector, EX651XLNT.
(Measured with Cavel DG113 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	28 dB	≥ 31.0 dB	5 MHz – 500 MHz	IEC 61169-1
	28 dB	≥ 41.2 dB	500 MHz – 860 MHz	
	28 dB	≥ 38.9 dB	860 MHz – 1.000 MHz	
	25 dB	≥ 28.9 dB	1.000 MHz – 1.750 MHz	
	22 dB	≥ 25.8 dB	1.750 MHz – 2.150 MHz	
	22 dB	≥ 25.1 dB	2.150 MHz – 3.000 MHz	
Insertion Loss of assembly	0.17 dB	≤ 0.14 dB	5 MHz – 500 MHz	
	0.22 dB	≤ 0.19 dB	500 MHz – 860 MHz	
	0.24 dB	≤ 0.21 dB	860 MHz – 1.000 MHz	
	0.35 dB	≤ 0.32 dB	1.000 MHz – 1.750 MHz	
	0.36 dB	≤ 0.33 dB	1.750 MHz – 2.150 MHz	
	0.41 dB	≤ 0.38 dB	2.150 MHz – 3.000 MHz	
Shielding Effectiveness of assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 6.57 m Ω /m			IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 88.8 dB			IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 80.6 dB			IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 79.0 dB			IEC 62153-4-4
	Class: B			EN 50117
Shielding Effectiveness of connector (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0.50 m Ω /item			IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 111.6 dB			IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 110.0 dB			IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 104.6 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
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 – Cable breaks before pulled out of connector	ANSI/SCTE 99
Approved compression tool	VT150DK-rev 2, VT200, CT2-AS, EX59/6CATU	

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:

EX651XLNT – 1 m. Cable – EX651XLNT.

All measurements are done with 1 meter **Cavel DG113** 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 a very short piece of 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.

