Item Number:
R001-3512M

Praesto, November 8, 2016 – Rev. 00

Description: Hardline Connector, R001-3512M.
(Measured with Commscope 75D 6.0 / 23.2 CER 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 Gated of R001-3512M	33 dB	≥ 36.2 dB	5 MHz – 500 MHz	IEC 61169-1
	29 dB	≥ 32.3 dB	500 MHz – 860 MHz	
	29 dB	≥ 32.0 dB	860 MHz – 1.000 MHz	
	26 dB	≥ 29.1 dB	1.000 MHz – 1.750 MHz	
	18 dB	≥ 21.1 dB	1.750 MHz – 2.150 MHz	
	13 dB	≥ 16.3 dB	2.150 MHz – 3.000 MHz	
	28 dB	≥ 31.7 dB	1.218 MHz	
Insertion Loss	0.13 dB	≤ 0.10 dB	5 MHz – 3.000 MHz	
Shielding Effectiveness	Class: A++			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Inner Conductor Resistance	≤ 1.0 mΩ @ 1 A DC.			IEC 61169-1
Amp. Rating	≤ 15 A @ 60 V.			
Dielectric Strength	≥ 3 kV.			IEC 61169-1
Insulation Resistance	≥ 29.99 GΩ @ 500 V.			IEC 61169-1

Environmental

	Specification	Standard
Temperature range Operating	-40°C to +65°C	
Temperature range Installation	-5°C to +50°C	
Sealing Test	IPX8 – 1 meter / 24 hours	IEC 60529
Red Dye		ANSI/SCTE 60
Corrosion Protection		ASTM B 117-94

Mechanical

	Specification	Standard
Interface	3.5/12 male	IEC 61169-14
Cable Retention	≥ 300 kgf.	ANSI/SCTE 99

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Brass	ASTM B605
Compression ring	NiSn (NITIN) plated Brass	ASTM B605
O'ring	EPDM	
Insulator	Polycarbonate/Polyethylene	

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.

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Measurement setup:

Nm-58f, 58m-3512f, **R001-3512M** – Cable – **R001-3512M**, 58m-3512f, Nm-58f

All measurements are done with Commscope 75D 6.0 / 23.2 CER cable, length 1.0 meter.

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

Due to size of the connector, it is not possible to measure Screening Effectiveness.

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

Return Loss and Insertion Loss 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 (≥ 15 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.

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