



Description: Hardline Connector, A025 - 3.5/12 male.
(Measured with PPC P6T77VRM Cable)

DATA SHEET

Electrical

	Specification		Standard	
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
Return Loss Gated of A025-3512M	Better Than	Measured – Worst case of 5 measurements	IEC 61169-1	
	30 dB	≥ 33.7 dB		5 MHz – 500 MHz
	29 dB	≥ 32.9 dB		500 MHz – 860 MHz
	29 dB	≥ 32.5 dB		860 MHz – 1.000 MHz
	25 dB	≥ 28.4 dB		1.000 MHz – 1.750 MHz
Return Loss of assembly	23 dB	≥ 26.5 dB	1.750 MHz – 2.150 MHz	
	20 dB	≥ 23.6 dB	2.150 MHz – 3.000 MHz	
	24 dB	≥ 27.3 dB	5 MHz – 500 MHz	
	23 dB	≥ 26.8 dB	500 MHz – 860 MHz	
	24 dB	≥ 27.0 dB	860 MHz – 1.000 MHz	
Insertion Loss	22 dB	≥ 25.9 dB	1.000 MHz – 1.750 MHz	
	19 dB	≥ 22.8 dB	1.750 MHz – 2.150 MHz	
	13 dB	≥ 16.7 dB	2.150 MHz – 3.000 MHz	
Shielding Effectiveness of A025-3512M (Measured with CoMeT)	0.13 dB	≤ 0.10 dB	5 MHz – 3.000 MHz	
Common Path Distortion	Transfer Impedance @ 5 – 30 MHz		≤ 0.60 mΩ/item	
	Screening Attenuation @ 30 – 1.000 MHz		≥ 106.4 dB	
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ 106.9 dB	
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ 99.9 dB	
Inner Conductor Resistance	Class: A++		EN 50117	
Amp. Rating	≤ -110 dBc		ANSI/SCTE 109 2005	
Dielectric Strength	≤ 5 mΩ @ 1 A DC.		IEC 61169-1	
Insulation Resistance	≤ 4 A @ 60 V.			
	≥ 2 kV.		IEC 61169-1	
	≥ 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	≥ 15 kgf	ANSI/SCTE 99

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Brass	ASTM B605
O'ring	EPDM	
Insulator	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.

Measurement setup:

Nm-58f, 58m-3512f – **A25-3512M** - cable – **A025-3512M** – 58m-3512f, Nm-58f.

All measurements are done with PPC P6T77VRM cable, length 0.5 meter.

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 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 (≥ 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.

