



Description: Hardline connector, E047-3512M male.
(Measured with NEXANS 2,77 /11,43/ cable.)

DATA SHEET

Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
	Better Than	Measured – Worst case of 2 measurements		
Return Loss Gated of connector E047-3512M	-35 dB	-38,5 dB	5 MHz – 500 MHz	IEC 61169-1
	-31 dB	-34,3 dB	500 MHz – 860 MHz	
	-30 dB	-33,8 dB	860 MHz – 1.000 MHz	
	-30 dB	-33,8 dB	1.000 MHz – 1.750 MHz	
	-30 dB	-35,8 dB	1.750 MHz – 2.150 MHz	
	-27 dB	-30,7 dB	2.150 MHz – 3.000 MHz	
	N/A	-34,0 dB	1218 MHz	
Return Loss Assembly	-29 dB	-32,3 dB	5 MHz – 500 MHz	IEC 61169-1
	-26 dB	-29,5 dB	500 MHz – 860 MHz	
	-26 dB	-29,4 dB	860 MHz – 1.000 MHz	
	-25 dB	-28,4 dB	1.000 MHz – 1.750 MHz	
	-25 dB	-29,9 dB	1.750 MHz – 2.150 MHz	
	-25 dB	-28,2 dB	2.150 MHz – 3.000 MHz	
	N/A	-28,7 dB	1.218 MHz	
Insertion Loss	≤ -0,13 dB	≤ -0,1 dB		
Shielding Effectiveness Assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0,09 mΩ/m			IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ -124,5 dB			IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ -126,6 dB			IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ -125,8 dB			IEC 62153-4-4
	Class: A++			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Amp. Rating	≤ 16 A.			
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 +60°C	
Corrosion Protection		ASTM B 117-94
Sealing Test	IPX8 – 1 meter/ 24 hours	IEC 60529

Mechanical

	Specification	Standard
Interface	3,5/12 male	IEC 61169-14
Cable Retention	≥ 130 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-rings	EPDM	
Insulators	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.

Measurement setup:

TA-NM-3512F – **E047-3512M** – cable 0,8 m – **E047-3512M** - TA-NM-58F

All measurements are done with NEXANS 2,7 /11,43 cable, length 0,8 m.

All results are worst case of 5 jumpers.

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

Return Loss, Insertion Loss and Shielding measured with Rohde & Schwarz ZNB-8 Network Analyzer, according to IEC standards.

CPD (Common Path Distortion) measured with Rohde & Schwarz FPC1000 Spectrum Analyzer, according to SCTE standard.

In case of over current (≥ 16 A.) there is a risk of high temperature inside connector, which could cause damage to the cable.

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

