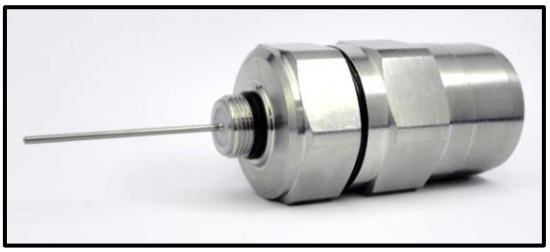
Item Number:
R082-58M

Praesto, June 15, 2016 – Rev. 00



Description: Hardline Connector, R082 – 5/8 male.
(Measured mounted on VDK3 cable, length 0.90 m.)

PRELIMINARY DATA SHEET

Electrical

	Specification			Standard
Frequency Range	**5 MHz – 3.000 MHz**			
Impedance	**75 Ω nominal**			
	Better Than	**Measured** – 1 measurement		
Return Loss Gated of R082-58M	36 dB	≥ 39.5 dB	5 MHz – 500 MHz	IEC 61169-1
	30 dB	≥ 33.4 dB	500 MHz – 860 MHz	
	28 dB	≥ 31.3 dB	860 MHz – 1.000 MHz	
	22 dB	≥ 25.3 dB	1.000 MHz – 1.750 MHz	
	21 dB	≥ 24.0 dB	1.750 MHz – 2.150 MHz	
	18 dB	≥ 21.8 dB	2.150 MHz – 3.000 MHz	
	25 dB	≥ 28.7 dB	1.218 MHz	
Return Loss of assembly	29 dB	≥ 32.3 dB	5 MHz – 500 MHz	IEC 61169-1
	27 dB	≥ 30.9 dB	500 MHz – 860 MHz	
	23 dB	≥ 26.9 dB	860 MHz – 1.000 MHz	
	15 dB	≥ 18.4 dB	1.000 MHz – 1.750 MHz	
	14 dB	≥ 17.0 dB	1.750 MHz – 2.150 MHz	
	12 dB	≥ 15.1 dB	2.150 MHz – 3.000 MHz	
	21 dB	≥ 24.0 dB	1.218 MHz	
Insertion Loss of Assembly	0.10 dB	≤ 0.07 dB	5 MHz – 500 MHz	
	0.13 dB	≤ 0.10 dB	500 MHz – 860 MHz	
	0.15 dB	≤ 0.12 dB	860 MHz – 1.000 MHz	
	0.22 dB	≤ 0.19 dB	1.000 MHz – 1.750 MHz	
	0.27 dB	≤ 0.24 dB	1.750 MHz – 2.150 MHz	
	0.36 dB	≤ 0.33 dB	2.150 MHz – 3.000 MHz	
	0.17 dB	≤ 0.14 dB	1.218 MHz	
Shielding Effectiveness	Class: A++			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Inner Conductor Resistance	≤ 1 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	5/8 male	ANSI/SCTE 92
Cable Retention	≥ 200 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, NITRIL	
Insulator	Polycarbonate, Polyethylene	

PPC Denmark
Branch of PPC Broadband Inc., a Belden Brand
Vaerkstedsvej 14
4720 Praesto
DENMARK

Tel: +45 5599 1722
Fax: +45 5599 2722
Email: ppceurope@ppc-online.com
URL: www.ppc-online.com – www.ppc.dk

Measurement setup:

Nm-58f, **R082-58M** – 0.90 m. cable – **R082-58M**, Nm-58f.

All measurements are done with VDK3 cable.

All results are result of measurement of 1 assembly.

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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Tel: +45 5599 1722
Fax: +45 5599 2722
Email: ppceurope@ppc-online.com
URL: www.ppc-online.com – www.ppc.dk