



Description: Hardline Connector, PP320QR.  
(Measured with Commscope QR 320-JC Cable.)

## DATA SHEET

### Electrical

	Specification		Standard
Frequency Range	5 MHz – 3.000 MHz		
Impedance	75 $\Omega$ nominal		
	Better Than	Measured – Worst case of 5 measurements	
Return Loss Gated of PP320QR	33 dB 33 dB 32 dB 27 dB 25 dB 21 dB 30 dB	$\geq 36.5$ dB $\geq 38.0$ dB $\geq 35.9$ dB $\geq 30.1$ dB $\geq 28.9$ dB $\geq 24.9$ dB $\geq 33.4$ dB	5 MHz – 500 MHz 500 MHz – 860 MHz 860 MHz – 1.000 MHz 1.000 MHz – 1.750 MHz 1.750 MHz – 2.150 MHz 2.150 MHz – 3.000 MHz 1.218 MHz
Insertion Loss	0.13 dB	$\leq 0.10$ dB	5 MHz – 3.000 MHz
Shielding Effectiveness of Assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz $\leq 0.10$ m $\Omega$ /m Screening Attenuation @ 30 – 1.000 MHz $\geq 121.8$ dB Screening Attenuation @ 1.000 – 2.000 MHz $\geq 125.7$ dB Screening Attenuation @ 2.000 – 3.000 MHz $\geq 118.1$ dB Class: A++		IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4 EN 50117
Common Path Distortion	$\leq -110$ dBc		ANSI/SCTE 109 2005
Inner Conductor Resistance	$\leq 1.3$ m $\Omega$ @ 1 A DC.		IEC 61169-1
Amp. Rating	$\leq 15$ A @ 60 V.		
Dielectric Strength	$\geq 3$ kV.		IEC 61169-1
Insulation Resistance	$\geq 29.99$ G $\Omega$ @ 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	$\geq 60$ 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	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:**

Nm-58f, **PP320QR** – Cable – **PP320QR**, Nm-58f.

All measurements are done with Commscope QR320-JC cable, length 1.0 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 ( $\geq 15$  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.

