



Description: Hardline Splice Reducer, H073 – H011.  
(Measured with Belden Coax 3 FB & TKF Coax 3 Bamboe Cable).

## DATA SHEET

### Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
	<b>Better Than</b>	<b>Measured</b> – Worst case of 5 measurements		
Return Loss of Assembly	21 dB	≥ 24.8 dB	5 MHz – 500 MHz	IEC 61169-1, 9.2.1.4
	18 dB	≥ 21.3 dB	500 MHz – 860 MHz	
	18 dB	≥ 21.3 dB	860 MHz – 1.000 MHz	
	15 dB	≥ 18.3 dB	1.000 MHz – 1.750 MHz	
Gated Return Loss of H073-H011-SPR	28 dB	≥ 31.5 dB	5 MHz – 500 MHz	IEC 61169-1, 9.2.1.4
	25 dB	≥ 28.4 dB	500 MHz – 860 MHz	
	24 dB	≥ 27.7 dB	860 MHz – 1.000 MHz	
	23 dB	≥ 26.7 dB	1.000 MHz – 1.750 MHz	
Insertion Loss of Assembly	0.08 dB	≤ 0.05 dB	5 MHz – 500 MHz	
	0.10 dB	≤ 0.07 dB	500 MHz – 860 MHz	
	0.11 dB	≤ 0.08 dB	860 MHz – 1.000 MHz	
	0.15 dB	≤ 0.12 dB	1.000 MHz – 1.750 MHz	
Shielding Effectiveness of assembly (Measured with CoMet)	Transfer Impedance @ 5 – 30 MHz ≤ 0.8 mΩ/item			IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz ≥ 101.2 dB			IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz ≥ 90.8 dB			IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz ≥ 82.4 dB			IEC 62153-4-4
Shielding Effectiveness of Splice Reducer	Class: A++			EN50117
Inner Conductor Resistance	≤ 1.0 mΩ @ 1 A DC.			IEC 61169-1, 9.2.3
Dielectric Strength	≥ 3 KV.			IEC 61169-1, 9.2.1.6
Amp. Rating	≤ 15 A @ 60 V.			
Insulation Resistance	≥ 29.99 GΩ @ 500 V.			IEC 61169-1, 9.2.1.5
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005

### Environmental

	Specification	Standard
Temperature range Operating	-40°C to +85°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
Pull Strength	≥ 180 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	EDPM	
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, H011-58m, Coax 3 FB, **H073-H011-SPR**, Coax 3 Bamboe, H073-58m, Nm-58f.

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

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

Return Loss, Gated Return Loss (Time Domain Measurement of Return Loss of 1 connector in setup) Insertion Loss and Shielding are measured with hp Network Analyzer hp 8753D and S-Parameter Test Set 85047A, according to IEC standards.

CPD (Common Path Distortion) are measured with hp Spectrum Analyzer hp 8591E, according to ANSI/SCTE standard.

In case of over current ( $\geq 15$  A.) there is a risk for high temperature inside the connector, which will cause damage of the insulator, and / or the cable.

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

