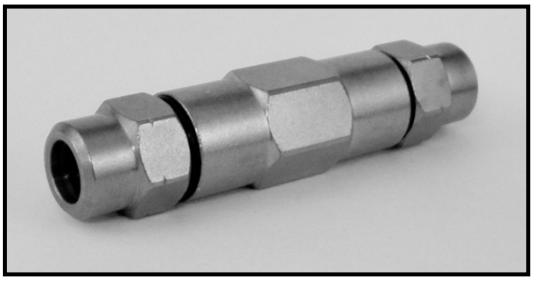
Item Number:
A025-SPL

Praesto, December 21, 2015 – Rev. 05



Description: Hardline Splicer, A025 - SPL.
(Measured with Bedea Coax 9 Cable)

DATA SHEET

Electrical

	Specification			Standard
Frequency Range	**5 MHz – 3.000 MHz**			
Impedance	**75 Ω nominal**			
	Better Than	**Measured** – Worst case of 5 measurements		
Return Loss (Gated)	28 dB	≥ 31.5 dB	5 MHz – 500 MHz	IEC 61169-1
	28 dB	≥ 35.6 dB	500 MHz – 860 MHz	
	28 dB	≥ 32.2 dB	860 MHz – 1.000 MHz	
	23 dB	≥ 26.9 dB	1.000 MHz – 1.750 MHz	
	22 dB	≥ 25.0 dB	1.750 MHz – 2.150 MHz	
	21 dB	≥ 24.0 dB	2.150 MHz – 3.000 MHz	
Insertion Loss of Assembly	0.13 dB	≤ 0.10 dB	5 MHz – 500 MHz	
	0.17 dB	≤ 0.14 dB	500 MHz – 860 MHz	
	0.19 dB	≤ 0.16 dB	860 MHz – 1.000 MHz	
	0.26 dB	≤ 0.23 dB	1.000 MHz – 1.750 MHz	
	0.29 dB	≤ 0.26 dB	1.750 MHz – 2.150 MHz	
	0.35 dB	≤ 0.32 dB	2.150 MHz – 3.000 MHz	
Shielding Effectiveness of Assembly (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 2.47 mΩ/item Screening Attenuation @ 30 – 1.000 MHz ≥ 97.6 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ 100.3 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ 91.1 dB Class: A+			IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4 EN 50117
Shielding A025-SPL	Class: A++			EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
Inner Conductor Resistance	≤ 2 mΩ @ 1 A DC.			IEC 61169-1
Amp. Rating	≤ 4 A @ 60 V.			
Dielectric Strength	≥ 2 KV.			IEC 61169-1
Insulation Resistance	≥ 29.99 GΩ @ 500 V.			IEC 61169-1

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
Cable Retention	≥ 25 kgf	ANSI/SCTE 99

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Tinbronze	ASTM B605
Compression ring	NiSn (NITIN) plated Brass	ASTM B605
O'ring	EPDM & Nitril	
Insulator	Polyethylene	

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Measurement setup:

A025-5/8 male – cable - **A025-SPL** – cable – A025-5/8 male.

All measurements are done with Bedea Coax 9 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.

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