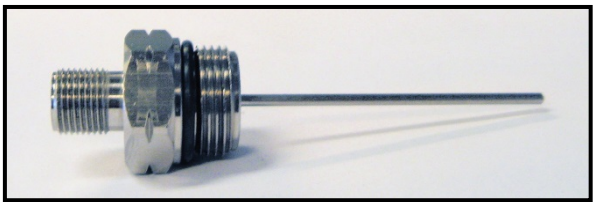
Item Number:
58M-FF47-S

Praesto, June 27, 2016 – Rev. 02



Description: Adaptor, 5/8 male – F female.

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	31 dB 28 dB 27 dB 25 dB 25 dB 25 dB	≥ 34.2 dB ≥ 31.4 dB ≥ 30.5 dB ≥ 28.8 dB ≥ 28.8 dB ≥ 29.0 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	IEC 61169-1
Insertion Loss	0.06 dB 0.07 dB 0.08 dB 0.09 dB 0.10 dB 0.12 dB	≤ 0.03 dB ≤ 0.04 dB ≤ 0.05 dB ≤ 0.06 dB ≤ 0.07 dB ≤ 0.09 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	
Shielding Effectiveness (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz ≤ 0.58 mΩ/item Screening Attenuation @ 30 – 1.000 MHz ≥ 112.5 dB Screening Attenuation @ 1.000 – 2.000 MHz ≥ 113.2 dB Screening Attenuation @ 2.000 – 3.000 MHz ≥ 111.3 dB Class: A++			IEC 62153-4-3 IEC 62153-4-4 IEC 62153-4-4 IEC 62153-4-4 EN 50117
Common Path Distortion	≤ -110 dBc			ANSI/SCTE 109 2005
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
Interface	5/8 male (KSM) F	ANSI/SCTE 92 IEC 61169-24

Material and Finish

	Specification	Standard
Housing	NiSn (NITIN) plated Brass	ASTM B605
Inner conductor	NiSn (NITIN) plated Brass & Gold (Au) plated Brass	ASTM B605
O'ring	EPDM	
Insulator	Polycarbonate/Polyethylene	

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Measurement setup:

Nm-58f, **58M-FF47-S**, Nm-Fm.

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.

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

Insertion Force & Withdrawal Force of center conductor of F female on
58M-FF47-S
According to Standard: IEC 61169-24

Test	**1**		**2**		**3**		**4**		**5**		**6**	
Gauge	0,635		0,850		1,136		0,635		1,136		0,635	mm
Connector #1												
Insert	4,675		9,642		17,705		2,602		15,111		3,132	N
Pull Out	0,865		1,722		5,267		0,723		5,314		0,762	N
Connector #2												
Insert	4,605		9,534		16,512		2,492		17,617		2,147	N
Pull Out	0,931		1,910		4,542		0,740		4,116		0,729	N
Connector #3												
Insert	5,298		11,347		19,820		4,797		18,22		3,150	N
Pull Out	1,103		2,561		5,102		0,792		5,031		0,933	N
Connector #4												
Insert	4,348		8,683		16,738		2,642		14,456		2,256	N
Pull Out	0,779		1,733		6,426		0,746		6,632		0,715	N
Connector #5												
Insert	3,919		9,712		16,425		2,503		16,828		3,084	N
Pull Out	0,929		1,996		5,819		0,800		5,536		0,867	N

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