



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

DATA SHEET

Electrical

	Specification			Standard
Frequency Range	5 MHz – 3.000 MHz			
Impedance	75 Ω nominal			
Return Loss	Better Than	Measured	– Worst case of 5 measurements	IEC 61169-1
	31 dB	≥ 34.2 dB	5 MHz – 500 MHz	
	28 dB	≥ 31.4 dB	500 MHz – 860 MHz	
	27 dB	≥ 30.5 dB	860 MHz – 1.000 MHz	
	25 dB	≥ 28.8 dB	1.000 MHz – 1.750 MHz	
	25 dB	≥ 28.8 dB	1.750 MHz – 2.150 MHz	
Insertion Loss	0.06 dB	≤ 0.03 dB	5 MHz – 500 MHz	
	0.07 dB	≤ 0.04 dB	500 MHz – 860 MHz	
	0.08 dB	≤ 0.05 dB	860 MHz – 1.000 MHz	
	0.09 dB	≤ 0.06 dB	1.000 MHz – 1.750 MHz	
	0.10 dB	≤ 0.07 dB	1.750 MHz – 2.150 MHz	
	0.12 dB	≤ 0.09 dB	2.150 MHz – 3.000 MHz	
Shielding Effectiveness (Measured with CoMeT)	Transfer Impedance @ 5 – 30 MHz		≤ 0.58 mΩ/item	IEC 62153-4-3
	Screening Attenuation @ 30 – 1.000 MHz		≥ 112.5 dB	IEC 62153-4-4
	Screening Attenuation @ 1.000 – 2.000 MHz		≥ 113.2 dB	IEC 62153-4-4
	Screening Attenuation @ 2.000 – 3.000 MHz		≥ 111.3 dB	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	

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, **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