



SFX-ADF

7-16 DIN Female for 1/2 in SFX-500 cable

General Specifications

Interface	7-16 DIN Female
Body Style	Straight

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 6000 MHz
Cable Impedance	50 ohm
3rd Order IMD, typical	-115 dBm @ 1800 MHz
3rd Order IMD Test Method	Two +43 dBm carriers
RF Operating Voltage, maximum (vrms)	707.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	0.40 mOhm
Inner Contact Resistance, maximum	1.50 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	870.0 W @ 900 MHz
Peak Power, maximum	15.60 kW
Shielding Effectiveness	110 dB

Outline Drawing

Mechanical Specifications

Outer Contact Attachment Method	Radial compression
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Silver
Inner Contact Plating	Silver
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Connector Retention Tensile Force	707 N 159 lbf
Connector Retention Torque	2.00 N-m 1.50 ft lb
Insertion Force	200.00 N 44.96 lbf
Insertion Force Method	IEC 61169-4:15.2.4
Pressurizable	No

Dimensions

Nominal Size	1/2 in
Diameter	29.00 mm 1.14 in
Length	51.00 mm 2.01 in

SFX-ADF

POWERED BY



Weight	72.00 g 0.16 lb
Width	29.00 mm 1.14 in

Environmental Specifications

Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Storage Temperature	-65 °C to +100 °C (-85 °F to +212 °F)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Mechanical Shock Test Method	IEC 60068-2-27
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

Standard Conditions

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F
Return Loss Note	Measurements taken using a .9 m (3 ft) jumper assembly

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
0.05–1.0 GHz	1.05	32.00
1.0–2.0 GHz	1.08	28.30
2.0–2.5 GHz	1.10	26.40
2.5–5.0 GHz	1.29	18.00
5.0–6.0 GHz	1.38	16.00

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours
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