

SFX-ANF



Type N Female for 1/2 in SFX-500 cable

OBSOLETE

This product was discontinued on: December 2, 2015

Product Classification

Product Type Wireless and radiating connector

General Specifications

Body Style Straight
Cable Family SFX-500
Inner Contact Attachment Method Captivated
Inner Contact Plating Gold
Interface N Female
Outer Contact Attachment Method Radial compression
Outer Contact Plating Silver
Pressurizable No

Dimensions

Width 20.57 mm | 0.81 in
Length 57.91 mm | 2.28 in
Diameter 20.57 mm | 0.81 in
Nominal Size 1/2 in

Electrical Specifications

3rd Order IMD at Frequency -115 dBm @ 1800 MHz
3rd Order IMD Test Method Two +43 dBm carriers
Average Power at Frequency 600.0 W @ 900 MHz
Cable Impedance 50 ohm
Connector Impedance 50 ohm

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dc Test Voltage	2000 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 6000 MHz
Outer Contact Resistance, maximum	0.25 mOhm
Peak Power, maximum	10 kW
RF Operating Voltage, maximum (vrms)	707 V
Shielding Effectiveness	110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0.05–1.0 GHz	1.05	32.26
1.0–2.0 GHz	1.08	28.3
2.0–2.5 GHz	1.1	26.45
2.5–5.0 GHz	1.29	18
5.0–6.0 GHz	1.38	16

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	1.4 N-m 12.356 in lb
Insertion Force	27.98 N 6.29 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Mechanical Shock Test Method	IEC 60068-2-27

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)
Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F

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Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net 64 g | 0.141 lb

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours