Product Specifications

POWERED BY ANDREW

SFX-ANM

Type N Male A Series for 1/2 in SFX-500 cable

General Specifications

Interface	N Male
Body Style	Straight
Mounting Angle	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	2000 V
Outer Contact Resistance, maximum	0.25 mOhm
Inner Contact Resistance, maximum	1.00 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	600.0 W @ 900 MHz
Peak Power, maximum	10.00 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	Gold
Attachment Durability	25 cycles
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-16:9.5
Connector Retention Tensile Force	890 N | 200 lbf
Connector Retention Torque	2.00 N-m | 1.50 ft lb
Insertion Force	28.00 N | 6.29 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Pressurizable	No
Coupling Nut Proof Torque	1.70 N-m | 1.25 ft lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.6

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Product Specifications

SFX-ANM

Coupling Nut Retention Force	450.00 N | 101.16 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11

Dimensions

Nominal Size	1/2 in
Diameter	20.60 mm | 0.81 in
Length	58.00 mm | 2.28 in
Weight	64.00 g | 0.14 lb
Width	20.60 mm | 0.81 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
Moisture Resistance Test Method	IEC 60068-2-3
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
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

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* Footnotes

Immersion Depth	Immersion at specified depth for 24 hours

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