

Product Classification

Product Type Product Brand

General Specifications

Body Style	Straight
Cable Family	FSJ1-50A
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	N Male
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Silver
Pressurizable	No
Dimensions	
Height	20.32 mm 0.8 in
Width	20.32 mm 0.8 in

Width	20.32 mm	0.8 in
Length	33.27 mm	1.31 in
Diameter	20.32 mm	0.8 in
Nominal Size	1/4 in	

Outline Drawing

Type N Male for 1/4 in FSJ1-50A cable

Wireless and radiating connector

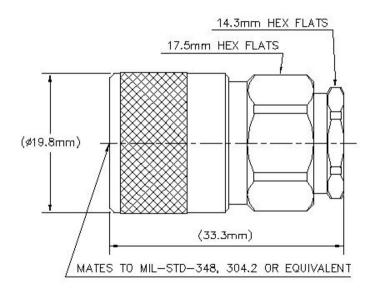
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Electrical Specifications

Average Power at Frequency	0.4 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1600 V
Inner Contact Resistance, maximum	1 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 18000 MHz
Outer Contact Resistance, maximum	0.25 m0hm
Peak Power, maximum	6.4 kW
RF Operating Voltage, maximum (vrms)	565 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-4100 MHz	1.05	33
4100-6200 MHz	1.09	28
6200–11000 MHz	1.18	22
11000–18000 MHz	1.23	20

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Mechanical Specifications

Connector Retention Tensile Force	449.27 N 101 lbf
Coupling Nut Proof Torque	1.7 N-m 15.046 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	445 N 100.04 lbf
Coupling Nut Retention Force Method	IEC 61169-16:9.3.11
Insertion Force	124.55 N 28 lbf
Insertion Force Method	IEC 61169-16:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-4:17
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Storage Temperature-65 °C to +125 °C (-85 °F to +257 °F)Attenuation, Ambient Temperature20 °C 68 °FAverage Power, Ambient Temperature40 °C 104 °FAverage Power, Inner Conductor Temperature100 °C 212 °FCorrosion Test MethodIEC 60068-2-11Immersion Depth1 mImmersion Test MatingMatedImmersion Test MethodIEC 60529:2001, IP68Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-14	Operating Temperature	-55 °C to +85 °C (-67 °F to +185 °F)
Average Power, Ambient Temperature40 °C 104 °FAverage Power, Inner Conductor Temperature100 °C 212 °FCorrosion Test MethodIEC 60068-2-11Immersion Depth1 mImmersion Test MatingMatedImmersion Test MethodIEC 60529:2001, IP68Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14	Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
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Corrosion Test MethodIEC 60068-2-11Immersion Depth1 mImmersion Test MatingMatedImmersion Test MethodIEC 60529:2001, IP68Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14	Average Power, Ambient Temperature	40 °C 104 °F
Immersion Depth1 mImmersion Test MatingMatedImmersion Test MethodIEC 60529:2001, IP68Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14	Average Power, Inner Conductor Temperature	100 °C 212 °F
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Immersion Test MethodIEC 60529:2001, IP68Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14	Immersion Depth	1 m
Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14	Immersion Test Mating	Mated
Thermal Shock Test MethodIEC 60068-2-14	Immersion Test Method	IEC 60529:2001, IP68
	Moisture Resistance Test Method	IEC 60068-2-3
Vibration Test Method IEC 60068-2-6	Thermal Shock Test Method	IEC 60068-2-14
	Vibration Test Method	IEC 60068-2-6

Packaging and Weights

Weight, net

49.18 g | 0.108 lb

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

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REACH-SVHC

ROHS



Compliant as per SVHC revision on www.commscope.com/ProductCompliance Compliant

* Footnotes

Immersion Depth

Immersion at specified depth for 24 hours

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