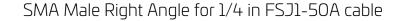
F1TSR-HF





Product Classification

Product TypeWireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleRight angleCable FamilyFSJ1-50AInner Contact Attachment MethodSolderInner Contact PlatingGoldInterfaceSMA Male

Outer Contact Attachment Method Clamp
Outer Contact Plating Trimetal
Pressurizable No

Dimensions

 Height
 0.74 in | 18.796 mm

 Width
 0.43 in | 10.922 mm

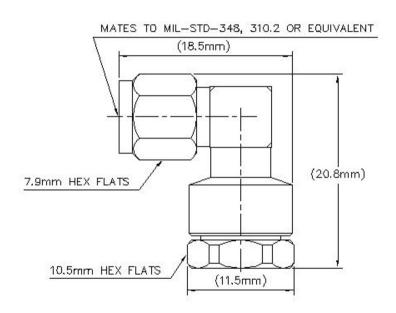
 Length
 0.82 in | 20.828 mm

 Right Angle Length
 0.74 in | 18.796 mm

Nominal Size 1/4 in

Outline Drawing





Electrical Specifications

Peak Power, maximum

Attenuation, Ambient Temperature	20 °C	68 °F
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Average Power at Frequency 0.4 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage1000 V

Inner Contact Resistance, maximum 3 mOhm

Insulation Resistance, minimum 5000 MOhm

Operating Frequency Band 0 – 18000 MHz

Outer Contact Resistance, maximum2.5 mOhm

RF Operating Voltage, maximum (vrms) 565 V

COMMSCOPE°

2.5 kW

F1TSR-HF

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–2700 MHz	1.06	31
2700–4000 MHz	1.07	30
4000–6000 MHz	1.12	25
6000–9000 MHz	1.2	21
9000–10200 MHz	1.23	20
10000–12000 MHz	1.26	19
12000–16200 MHz	1.29	18
16200–18000 MHz	1.44	15

Mechanical Specifications

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Connector Retention Tensile Force	101 lbf 449.27 N
Coupling Nut Proof Torque	15.05 in lb 1.7 N-m
Coupling Nut Proof Torque Method	IEC 61169-15:9.3.6
Coupling Nut Retention Force	40.47 lbf 180.019 N
Coupling Nut Retention Force Method	IEC 61169-15:9.3.11
Insertion Force	4.95 lbf 22.019 N
Insertion Force Method	IEC 61169-15:9.3.5
Interface Durability	500 cycles
Interface Durability Method	IEC 61169-15:9.5
Mechanical Shock Test Method	IEC 60068-2-27

Environmental Specifications

Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)
Storage Temperature	-65 °C to +125 °C (-85 °F to +257 °F)
Average Power, Ambient Temperature	40 °C 104 °F
Average Power, Inner Conductor Temperature	100 °C 212 °F
Corrosion Test Method	IEC 60068-2-11
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated

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F1TSR-HF

Water Jetting Test Method

IEC 60529:2001, IP65

Packaging and Weights

Weight, net 8.76 g | 0.019 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

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

ROHS Compliant



