

# F1TSF-BH

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SMA Female Bulkhead for 1/4 in FSJ1-50A cable

## Product Classification

Product Type	Wireless and radiating connector
Product Brand	HELIAX®

## General Specifications

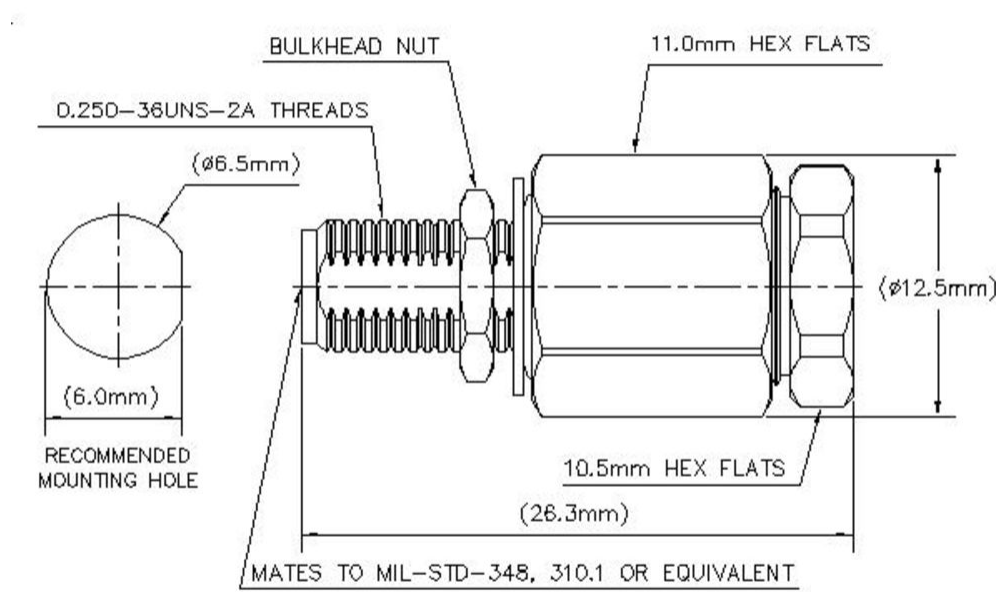
Body Style	Bulkhead
Cable Family	FSJ1-50A
Inner Contact Attachment Method	Solder
Inner Contact Plating	Gold
Interface	SMA Female
Mounting Angle	Straight
Outer Contact Attachment Method	Tab-flare
Outer Contact Plating	Trimetal
Pressurizable	No

## Dimensions

Height	0.49 in   12.446 mm
Width	0.49 in   12.446 mm
Length	0.89 in   22.606 mm
Diameter	0.49 in   12.446 mm
Nominal Size	1/4 in

## Outline Drawing

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## Electrical Specifications

Attenuation, Ambient Temperature	20 °C   68 °F
Average Power at Frequency	0.4 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	1000 V
Inner Contact Resistance, maximum	3 mOhm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 18000 MHz
Outer Contact Resistance, maximum	2.5 mOhm
Peak Power, maximum	5 kW
RF Operating Voltage, maximum (vrms)	500 V

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## Shielding Effectiveness

-110 dB

## VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
824–2700 MHz	1.12	25.6
3000–6000 MHz	1.15	23.6
6000–8000 MHz	1.15	23.6
8000–10000 MHz	1.2	21.2
10000–12000 MHz	1.26	19
12000–14000 MHz	1.26	19
14000–18000 MHz	1.33	17

## Mechanical Specifications

Connector Retention Tensile Force	80 lbf   355.858 N
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Insertion Force	22 lbf   97.861 N
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

Operating Temperature	-55 °C to +85 °C (-67 °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

## Packaging and Weights

Weight, net	10.57 g   0.023 lb
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## 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant

