

#### 4.3-10 Male Right Angle for 1/4 in FSJ1-50A cable

#### **Product Classification**

**Product Type**Wireless and radiating connector

Silver

Product BrandHELIAX®Product SeriesFSJ1-50A

### General Specifications

Body StyleRight angleCable FamilyFSJ1-50AInner Contact Attachment MethodCaptivated

Interface4.3-10 MaleMounting AngleRight angleOuter Contact Attachment MethodClamp

Outer Contact Plating Trimetal

#### **Dimensions**

**Inner Contact Plating** 

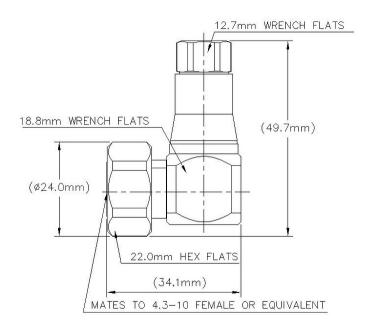
 Length
 49.78 mm | 1.96 in

 Diameter
 23.88 mm | 0.94 in

Nominal Size 1/4 in



### Outline Drawing



### **Electrical Specifications**

**3rd Order IMD Dynamic Test Method** Two +43 dBm carriers

**3rd Order IMD Dynamic, typical** -116 dB **Insertion Loss Coefficient, typical** 0.05

Average Power at Frequency 600.0 W @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage1600 VInner Contact Resistance, maximum0.8 mOhmInsulation Resistance, minimum5000 MOhmOperating Frequency Band0 - 6000 MHzOuter Contact Resistance, maximum1.5 mOhm

Peak Power, maximum10 kWRF Operating Voltage, maximum (vrms)707 V

**Shielding Effectiveness** 



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-110 dB

#### VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45-2700 MHz	1.025	38.17
2700-4000 MHz	1.052	31.92
4000-6000 MHz	1.083	27.99

#### Mechanical Specifications

Attachment Durability 25 cycles

**Connector Retention Tensile Force** 449.27 N | 101 lbf

Coupling Nut Proof Torque10 N-m | 88.507 in lbCoupling Nut Retention Force449.98 N | 101.16 lbf

Interface Durability 100 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test Method IEC 60068-2-27

#### **Environmental Specifications**

Operating Temperature-55 °C to +85 °C (-67 °F to +185 °F)Storage Temperature-55 °C to +85 °C (-67 °F to +185 °F)

Attenuation, Ambient Temperature20 °C | 68 °FAverage Power, Ambient Temperature40 °C | 104 °FCorrosion Test MethodIEC 60068-2-11

Immersion Depth1 mImmersion Test MatingMated

**Immersion Test Method** IEC 60529:2001, IP68

Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

**Weight, net** 96.61 g | 0.213 lb



## Regulatory Compliance/Certifications

Agency Classification

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

\* Footnotes

**Insertion Loss Coefficient, typical** 0.05√ freq (GHz) (not applicable for elliptical waveguide)

**Immersion Depth** Immersion at specified depth for 24 hours

