# F2TDM-PL 苏州启道 - 康普安德鲁HELIAX中国区独家授权总代理



#### 7-16 DIN Male Positive Lock for 3/8 in FSJ2-50 cable

#### **Product Classification**

**Product Type** Wireless and radiating connector

**Product Brand HELIAX®** 

### General Specifications

**Body Style** Straight FSJ2-50 **Cable Family Inner Contact Attachment Method** Captivated

**Inner Contact Plating** Silver

Interface 7-16 DIN Male

**Mounting Angle** Straight **Outer Contact Attachment Method** Crush-flare Trimetal **Outer Contact Plating** 

**Pressurizable** No

#### Dimensions

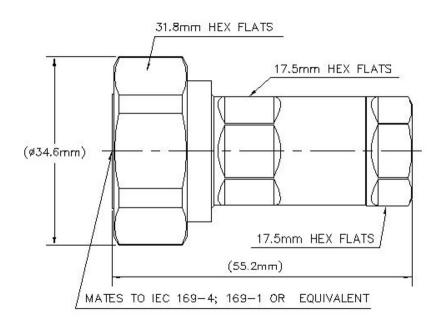
Height 34.54 mm | 1.36 in Width 34.54 mm | 1.36 in Length 55.12 mm | 2.17 in Diameter 34.54 mm | 1.36 in

**Nominal Size** 3/8 in

## Outline Drawing



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## **Electrical Specifications**

3rd Order IMD at Frequency -97 dBm @ 910 MHz 3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical 0.05 dB

0.7 kW @ 900 MHz **Average Power at Frequency** 

**Cable Impedance** 50 ohm **Connector Impedance** 50 ohm 2300 V dc Test Voltage Inner Contact Resistance, maximum 0.4 m0hm Insulation Resistance, minimum 10000 MOhm **Operating Frequency Band** 0 - 8000 MHz **Outer Contact Resistance, maximum** 1.5 mOhm

Peak Power, maximum 13.2 kW RF Operating Voltage, maximum (vrms) 813 V **Shielding Effectiveness** -110 dB

### VSWR/Return Loss

**VSWR Frequency Band** Return Loss (dB)

0-960 MHz 1.03 37.6



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960-2200 MHz	1.06	30.8
2200-2700 MHz	1.08	28.5
2700-4000 MHz	1.08	28.4
4000-6000 MHz	1.29	18
6000-8000 MHz	1.38	16

#### Mechanical Specifications

Connector Retention Tensile Force671.68 N | 151 lbfConnector Retention Torque2.7 N-m | 23.897 in lbCoupling Nut Proof Torque35 N-m | 309.776 in lbCoupling Nut Retention Force1000 N | 224.81 lbf

Coupling Nut Retention Force Method MIL-C-39012C-3.25, 4.6.22

Insertion Force 199.99 N | 44.96 lbf

**Insertion Force Method** IEC 61169-1:15.2.4

Interface Durability500 cyclesInterface Durability MethodIEC 61169-4:17Mechanical Shock Test MethodIEC 60068-2-27

### **Environmental Specifications**

Operating Temperature  $-55 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  (-67  $^{\circ}\text{F}$  to  $+185 \,^{\circ}\text{F}$ )

Storage Temperature  $-65 \,^{\circ}\text{C}$  to  $+125 \,^{\circ}\text{C}$  (-85  $^{\circ}\text{F}$  to  $+257 \,^{\circ}\text{F}$ )

Attenuation, Ambient Temperature20 °C | 68 °FAverage Power, Ambient Temperature40 °C | 104 °FAverage Power, Inner Conductor Temperature100 °C | 212 °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

Packaging and Weights



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**Weight, net** 133.03 g | 0.293 lb

## Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

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

ROHS Compliant/Exempted



#### \* Footnotes

**Insertion Loss, typical** 0.05v<sup>-</sup>freq (GHz) (not applicable for elliptical waveguide)

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

