# F2TDM-PL



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

### **Product Classification**

**Product Type**Wireless and radiating connector

Product Brand HELIAX®
Product Series FSJ2-50

General Specifications

Body StyleStraightCable FamilyFSJ2-50Inner Contact Attachment MethodCaptivated

Inner Contact Plating Silver

**Interface** 7-16 DIN Male

Mounting Angle Straight

 Outer Contact Attachment Method
 Crush-flare

 Outer Contact Plating
 Trimetal

**Pressurizable** No

### **Dimensions**

 Height
 34.54 mm | 1.36 in

 Width
 34.54 mm | 1.36 in

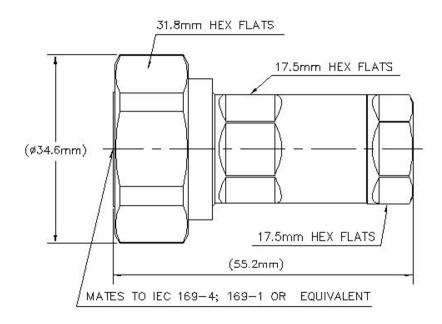
 Length
 55.12 mm | 2.17 in

 Diameter
 34.54 mm | 1.36 in

Nominal Size 3/8 in

## Outline Drawing





### **Electrical Specifications**

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

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 0.7 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2300 VInner Contact Resistance, maximum0.4 mOhmInsulation Resistance, minimum10000 MOhmOperating Frequency Band0 - 8000 MHzOuter Contact Resistance, maximum1.5 mOhmPeak Power, maximum13.2 kW

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

### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**0–960 MHz** 1.027 37.51



## F2TDM-PL

960-2200 MHz	1.059	30.86
2200-2700 MHz	1.078	28.51
2700-4000 MHz	1.079	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 MethodMIL-C-39012C-3.25, 4.6.22Insertion Force199.99 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



# F2TDM-PL

**Weight, net** 133.03 g | 0.293 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.andrew.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



### \* Footnotes

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

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

