

# F2PDM-C

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



## OBSOLETE

### Replaced By:

F2TDF-PL	7-16 DIN Female Positive Lock for 3/8 in FSJ2-50 cable
F2TDM-PL	7-16 DIN Male Positive Lock for 3/8 in FSJ2-50 cable

## Product Classification

<b>Product Type</b>	Wireless and radiating connector
<b>Product Brand</b>	HELIAX®

## General Specifications

<b>Body Style</b>	Straight
<b>Cable Family</b>	FSJ2-50
<b>Inner Contact Attachment Method</b>	Captivated
<b>Inner Contact Plating</b>	Silver
<b>Interface</b>	7-16 DIN Male
<b>Mounting Angle</b>	Straight
<b>Outer Contact Attachment Method</b>	Self-clamping
<b>Outer Contact Plating</b>	Silver
<b>Pressurizable</b>	No

## Dimensions

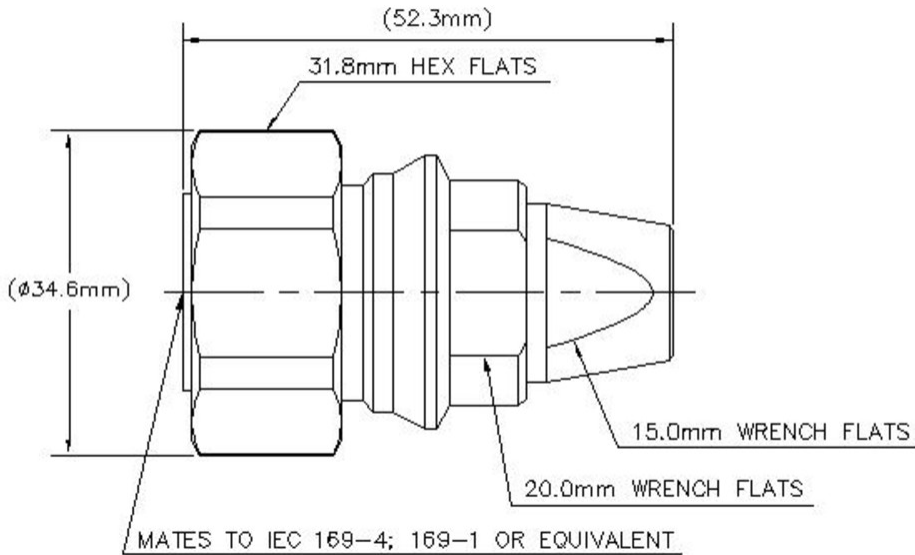
<b>Height</b>	36.07 mm   1.42 in
<b>Length</b>	52.32 mm   2.06 in
<b>Diameter</b>	36.07 mm   1.42 in

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Nominal Size

3/8 in

## Outline Drawing



## Electrical Specifications

<b>3rd Order IMD at Frequency</b>	-112 dBm @ 910 MHz
<b>3rd Order IMD Test Method</b>	Two +43 dBm carriers
<b>Average Power at Frequency</b>	0.7 kW @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	2300 V
<b>Inner Contact Resistance, maximum</b>	0.4 mOhm
<b>Insulation Resistance, minimum</b>	10000 MOhm
<b>Operating Frequency Band</b>	0 – 6000 MHz
<b>Outer Contact Resistance, maximum</b>	1.5 mOhm
<b>Peak Power, maximum</b>	13.2 kW
<b>RF Operating Voltage, maximum (vrms)</b>	813 V
<b>Shielding Effectiveness</b>	-110 dB

## VSWR/Return Loss

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Frequency Band	VSWR	Return Loss (dB)
45–2000 MHz	1.06	32

## Mechanical Specifications

Connector Retention Tensile Force	671.68 N   151 lbf
Connector Retention Torque	3.7 N-m   32.748 in lb
Coupling Nut Proof Torque	35 N-m   309.776 in lb
Coupling Nut Proof Torque Method	IEC 61169-16:9.3.11
Coupling Nut Retention Force	1000 N   224.81 lbf
Coupling Nut Retention Force Method	IEC 61169-17:9.3.11
Insertion Force	889.64 N   200 lbf
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)
Attenuation, Ambient Temperature	20 °C   68 °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
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
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	123 g   0.271 lb
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## \* Footnotes

### **Immersion Depth**

Immersion at specified depth for 24 hours