F4PDR-C



7-16 DIN Male Right Angle for 1/2 in FSJ4-50B cable

OBSOLETE

This product was discontinued on: July 27, 2013

Replaced By:

F4DR-C 7-16 DIN Male Right Angle for 1/2 in FSJ4-50B cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®

General Specifications

Body StyleRight angleCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivated

Inner Contact Plating Gold

Interface7-16 DIN MaleMounting AngleRight angleOuter Contact Attachment MethodCrush-flareOuter Contact PlatingTrimetalPressurizableNo

Dimensions

 Width
 31.75 mm | 1.25 in

 Length
 60.96 mm | 2.4 in

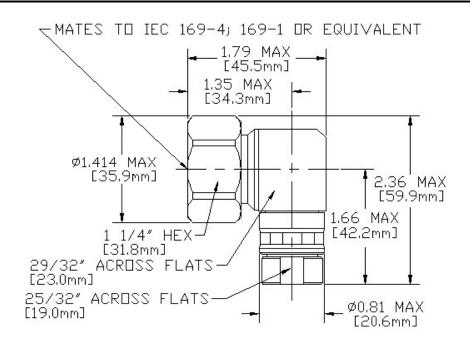
 Right Angle Length
 45.72 mm | 1.8 in

 Diameter
 40.39 mm | 1.59 in

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency -120 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 1.0 kW @ 900 MHz

Cable Impedance 50 ohm **Connector Impedance** 50 ohm dc Test Voltage 2500 V **Inner Contact Resistance, maximum** 0.8 m0hm Insulation Resistance, minimum 5000 MOhm 0 - 5200 MHz **Operating Frequency Band Outer Contact Resistance, maximum** 1.5 m0hm 15.6 kW Peak Power, maximum RF Operating Voltage, maximum (vrms) 884 V

VSWR/Return Loss

Shielding Effectiveness

Frequency Band VSWR Return Loss (dB)

50–1000 MHz 1.04 34.16

COMMSCOPE®

-110 dB

F4PDR-C

1000-1900 MHz	1.04	34.16
1900-2200 MHz	1.07	29.42
2000-2700 MHz	1.1	26.45
2700-3600 MHz	1.13	24.29
3600-5000 MHz	1.25	19.09

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 889.64 N | 200 lbf

Connector Retention Torque 5.42 N-m | 47.998 in lb

Coupling Nut Proof Torque 24.86 N-m | 220.003 in lb

Coupling Nut Retention Force 1,000.85 N | 225 lbf

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

Insertion Force 200.17 N | 45 lbf
Insertion Force Method IEC 61169-1:15.2.4

Interface Durability 500 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test Method MIL-STD-202F, Method 213B, Test Condition C

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 Temperature $20 \, ^{\circ}\text{C} \mid 68 \, ^{\circ}\text{F}$ Average Power, Ambient Temperature $40 \, ^{\circ}\text{C} \mid 104 \, ^{\circ}\text{F}$

Corrosion Test Method MIL-STD-1344A, Method 1001.1, Test Condition A

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method MIL-STD-202F, Method 106F

Thermal Shock Test Method MIL-STD-202, Method 107, Test Condition A-1, Low Temperature -55 °C

Vibration Test Method IEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

COMMSCOPE®

F4PDR-C

Packaging and Weights

 $\textbf{Weight, net} \hspace{1.5cm} 207.36 \; \text{g} \; \mid \; 0.457 \; \text{lb}$

* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

