F4PDR

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

OBSOLETE

This product was discontinued on: October 5, 2006

Replaced By:

F4PDR-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 Style Right angle

 Inner Contact Attachment Method
 Solder

 Inner Contact Plating
 Silver

Interface 7-16 DIN Male

Mounting AngleRight angleOuter Contact Attachment MethodSelf-flareOuter Contact PlatingSilverPressurizableNo

Dimensions

 Width
 31.75 mm | 1.25 in

 Length
 60.96 mm | 2.4 in

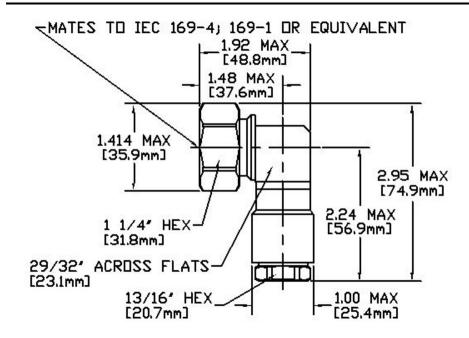
 Right Angle Length
 45.72 mm | 1.8 in

 Diameter
 35.56 mm | 1.4 in

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 1.0 kW @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2500 VInner Contact Resistance, maximum0.8 mOhmInsulation Resistance, minimum5000 MOhm

Operating Frequency Band 0 - 5200 MHz

Outer Contact Resistance, maximum 1.5 mOhm

Peak Power, maximum 15.6 kW

RF Operating Voltage, maximum (vrms) 884 ∨

Shielding Effectiveness -110 dB

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force 889.64 N | 200 lbf

Connector Retention Torque5.42 N-m | 47.998 in lbCoupling Nut Proof Torque24.86 N-m | 220.003 in lb

COMMSCOPE®

F4PDR

Coupling Nut Retention Force 1,000.85 N | 225 lbf

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

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 MIL-STD-202F, Method 204D, Test Condition B

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 281.23 g | 0.62 lb

* Footnotes

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

Immersion Depth Immersion at specified depth for 24 hours

