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®

Ordering Note CommScope® standard product (Global)

General Specifications

Body Style Right angle **Cable Family** FSJ4-50B **Inner Contact Attachment Method** Captivated **Inner Contact Plating** Gold | Silver Interface 7-16 DIN Male **Mounting Angle** Right angle **Outer Contact Attachment Method** Self-flare Trimetal **Outer Contact Plating Pressurizable** No

Dimensions

 Height
 1.67 in | 42.418 mm

 Width
 1.36 in | 34.544 mm

 Length
 2.79 in | 70.866 mm

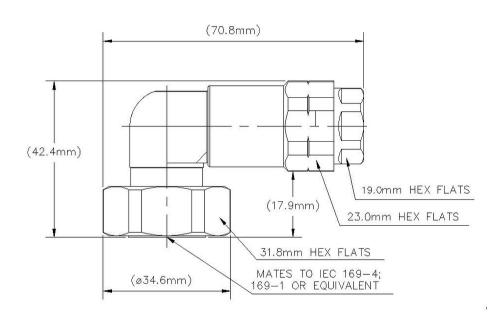
 Right Angle Length
 0.71 in | 18.034 mm

1/2 in

Nominal Size

Outline Drawing





Electrical Specifications

3rd Order IMD at Frequency -120 dBm @ 910 MHz

3rd Order IMD Test Method Two +43 dBm carriers

Insertion Loss, typical 0.05 dB

Attenuation, Ambient Temperature 20 °C | 68 °F

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 mOhm

Insulation Resistance, minimum 5000 MOhm

Operating Frequency Band 0 – 7500 MHz

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Outer Contact Resistance, maximum 1.5 mOhm
Peak Power, maximum 15.6 kW
RF Operating Voltage, maximum (vrms) 884 V
Shielding Effectiveness -110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
50–1000 MHz	1.04	34.16
1000–1900 MHz	1.04	34.16
1900–2200 MHz	1.07	29.42
2200–2700 MHz	1.1	26.45
2700–3600 MHz	1.13	24.29
3600–6000 MHz	1.25	19.09
6000–8800 MHz	1.67	12.01
8000-10200 MHz	1.67	12.01

Mechanical Specifications

Connector Retention Tensile Force100 lbf | 444.822 NConnector Retention Torque48 in lb | 5.423 N-mCoupling Nut Proof Torque220 in lb | 24.857 N-mCoupling Nut Retention Force225 lbf | 1,000.85 NCoupling Nut Retention Force MethodMIL-C-39012C-3.25, 4.6.22

Interface Durability 500 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test MethodMIL-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)

Average Power, Ambient Temperature 40 °C | 104 °F

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

Immersion Depth 1 m

Immersion Test Mating Unmated

Immersion Test Method IEC 60529:2001, IP68

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

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

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

Water Jetting Test Mating Unmated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 197.2 g | 0.435 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

Immersion Depth Immersion at specified depth for 24 hours

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

