F4HR-D



4.3-10 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 StyleRight angleCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivatedInner Contact PlatingSilver

Interface4.3-10 MaleMounting AngleStraightOuter Contact Attachment MethodCrush-flareOuter Contact PlatingTrimetal

Dimensions

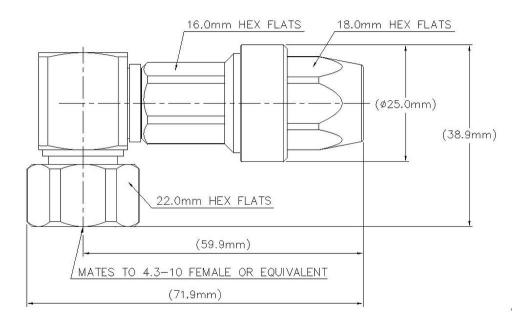
 Length
 2.83 in | 71.882 mm

 Diameter
 0.98 in | 24.892 mm

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

3rd Order IMD Dynamic Test Method

3rd Order IMD at Frequency -116 dBm @ 910 MHz

Two +43 dBm carriers

3rd Order IMD Dynamic, typical -116 dB **Insertion Loss, typical** 0.05 dB

Attenuation, Ambient Temperature 20 °C | 68 °F

Average Power at Frequency 600.0 W @ 900 MHz

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

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Operating Frequency Band 0 – 7500 MHz
Outer Contact Resistance, maximum 1.5 mOhm
Peak Power, maximum 22.5 kW
RF Operating Voltage, maximum (vrms) 884 V
Shielding Effectiveness -110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	40.09
1000–2700 MHz	1.05	32.26
2700–3800 MHz	1.07	30
3800–6000 MHz	1.2	21

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force200 lbf | 889.644 NConnector Retention Torque48 in lb | 5.423 N-mCoupling Nut Proof Torque88.51 in lb | 10 N-mCoupling Nut Retention Force101 lbf | 449.27 N

Interface Durability 100 cycles

Interface Durability MethodIEC 61169-4:9.5Mechanical 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 $-55 \,^{\circ}\text{C}$ to $+85 \,^{\circ}\text{C}$ (-67 $^{\circ}\text{F}$ to $+185 \,^{\circ}\text{F}$)

Average Power, Ambient Temperature 40 °C | 104 °F **Corrosion Test Method** IEC 60068-2-11

Immersion Depth1 mImmersion Test MatingMated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test Method IEC 60068-2-3

Thermal Shock Test Method IEC 60068-2-14



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Vibration Test Method IEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 133.3 g | 0.294 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.commscope.com/ProductCompliance

ROHS Compliant



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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