

4.3-10 Female for 1/2 in FSJ4-50B cable

Product Classification

Product Type Wireless and radiating connector

Product Brand HELIAX®

Product Series FSJ4-50B | FSJ4RK-50B

Ordering Note CommScope® standard product (Global)

General Specifications

Body Style Straight

Cable Family FSJ4-50B

Inner Contact Attachment Method Captivated

Inner Contact Plating Silver

Interface 4.3-10 Female

Mounting Angle Straight

Outer Contact Attachment Method Crush-flare

Outer Contact Plating Trimetal

Dimensions

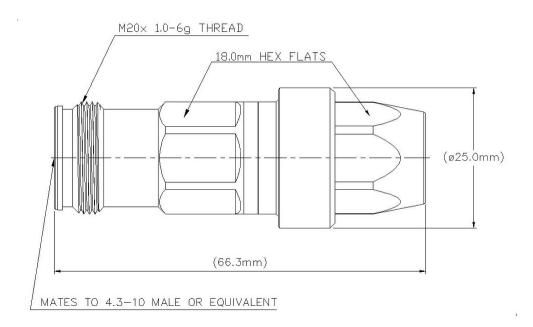
Length 66.29 mm | 2.61 in

Diameter 24.89 mm | 0.98 in

Nominal Size 1/2 in

Outline Drawing





Electrical Specifications

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

3rd Order IMD Dynamic Test Method Two +43 dBm carriers

3rd Order IMD Dynamic, typical -116 dB

Insertion Loss Coefficient, typical 0.05

Average Power at Frequency 600.0 W @ 900 MHz

Cable Impedance50 ohmConnector Impedance50 ohmdc Test Voltage2500 V

 Inner Contact Resistance, maximum
 0.8 mOhm

 Insulation Resistance, minimum
 5000 MOhm

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)

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45-1000 MHz	1.02	40.09
1000-2700 MHz	1.03	36.61
2700-3800 MHz	1.065	30.04
3800-6000 MHz	1.17	22.13

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 Torque10 N-m | 88.507 in lbCoupling Nut Retention Force449.27 N | 101 lbf

Interface Durability 100 cycles

Interface Durability Method IEC 61169-4:9.5

Mechanical Shock Test Method IEC 60068-2-27

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 MethodIEC 60068-2-11

Immersion Depth 1 m

Immersion Test Mating Mated

Immersion Test Method IEC 60529:2001, IP68

Moisture Resistance Test MethodIEC 60068-2-3Thermal Shock Test MethodIEC 60068-2-14Vibration Test MethodIEC 60068-2-6

Water Jetting Test Mating Mated

Water Jetting Test Method IEC 60529:2001, IP66

Packaging and Weights

Weight, net 102.67 g | 0.226 lb

Regulatory Compliance/Certifications

COMMSCOPE®

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

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

Immersion Depth Immersion at specified depth for 24 hours

