## F4NR-HC



#### Type N Male Right Angle 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 in Asia Pacific | CommScope® standard product

in Europe, the Middle East, and Africa

#### General Specifications

Body StyleRight angleCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivatedInner Contact PlatingGold | Silver

**Interface** N Male

Mounting AngleRight angleOuter Contact Attachment MethodSelf-flareOuter Contact PlatingTrimetalPressurizableNo

#### **Dimensions**

 Height
 46.48 mm | 1.83 in

 Width
 24.38 mm | 0.96 in

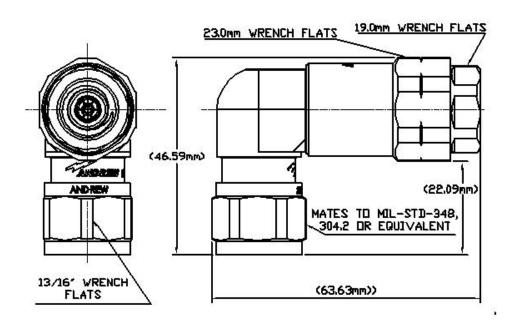
 Length
 63.75 mm | 2.51 in

 Right Angle Length
 22.1 mm | 0.87 in

Nominal Size 1/2 in

### Outline Drawing





#### **Electrical Specifications**

3rd Order IMD at Frequency -116 dBm @ 910 MHz
3rd Order IMD Test Method Two +43 dBm carriers

**Insertion Loss Coefficient, typical** 0.05

Average Power at Frequency 0.6 kW @ 900 MHz

Cable Impedance 50 ohm **Connector Impedance** 50 ohm 2000 V dc Test Voltage Inner Contact Resistance, maximum 2 m0hm Insulation Resistance, minimum 5000 MOhm **Operating Frequency Band** 0 - 10200 MHz **Outer Contact Resistance, maximum** 0.3 m0hm Peak Power, maximum 10 kW

RF Operating Voltage, maximum (vrms) 707 V
Shielding Effectiveness -110 dB

#### VSWR/Return Loss

Frequency Band VSWR Return Loss (dB)

**50–1000 MHz** 1.05 32.26

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1000-1900 MHz	1.06	30.72
1900-2200 MHz	1.06	30.72
2200-2700 MHz	1.08	28.3
2700-3600 MHz	1.19	21.24
3600-6000 MHz	1.19	21.24
6000-8800 MHz	1.25	19.09
8800-10200 MHz	1.29	-18

#### Mechanical Specifications

Connector Retention Tensile Force444.82 N | 100 lbfConnector Retention Torque5.42 N-m | 47.998 in lbCoupling Nut Proof Torque4.52 N-m | 39.997 in lbCoupling Nut Retention Force444.82 N | 100 lbf

**Coupling Nut Retention Force Method** MIL-C-39012C-3.23, 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 Depth** 1 m

Immersion Test Mating Unmated

**Immersion Test Method** IEC 60529:2001, IP68

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

**COMMSCOPE®** 

# F4NR-HC

**Weight, net** 160.9 g | 0.355 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 UK-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

