F4PDMV2-C



7-16 DIN Male 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 StyleStraightCable FamilyFSJ4-50BInner Contact Attachment MethodCaptivatedInner Contact PlatingSilver

Interface 7-16 DIN Male

Mounting AngleStraightOuter Contact Attachment MethodCrush-flareOuter Contact PlatingTrimetalPressurizableNo

Dimensions

 Length
 1.97 in | 50.038 mm

 Diameter
 1.36 in | 34.544 mm

Nominal Size 1/2 in

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

COMMSCOPE®

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Average Power at Frequency 1.0 kW @ 900 MHz

50 ohm **Cable Impedance Connector Impedance** 50 ohm 2500 V dc Test Voltage 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 15.6 kW Peak Power, maximum RF Operating Voltage, maximum (vrms) 884 V **Shielding Effectiveness** -110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss
0–2200 MHz	1.04	36
2200–2700 MHz	1.05	33
2700–3000 MHz	1.06	32

(dB)

Mechanical Specifications

Attachment Durability 25 cycles

Connector Retention Tensile Force200 lbf | 889.644 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

Insertion Force45 lbf200.17 NInsertion Force MethodIEC 61169-1:15.2.4

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 $-55 \,^{\circ}\text{C}$ 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 $+185 \,^{\circ}\text{F}$)

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Average Power, Ambient Temperature 40 °C | 104 °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 136.08 g | 0.3 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)

