

F4HM-D



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

Product Classification

Brand	HELIAX®
Product Type	Wireless and radiating connector

General Specifications

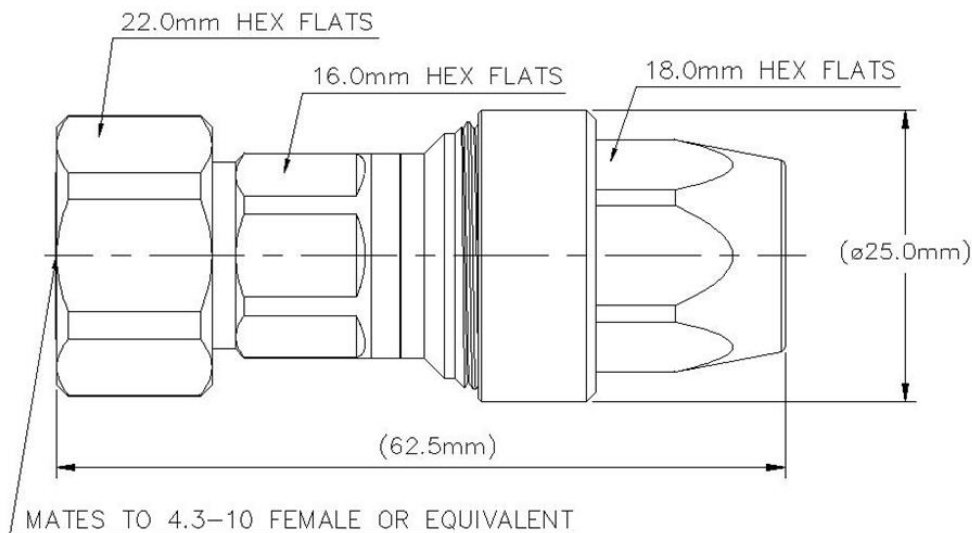
Interface	4.3-10 Male
Body Style	Straight
Mounting Angle	Straight
Ordering Note	CommScope® standard product (Global)

Electrical Specifications

Connector Impedance	50 ohm
Operating Frequency Band	0 – 7500 MHz
Cable Impedance	50 ohm
3rd Order IMD Dynamic, typical	-116.0 dB
3rd Order IMD Dynamic Test Method	Two +43 dBm carriers
3rd Order IMD, typical	-116 dBm @ 910 MHz
RF Operating Voltage, maximum (vrms)	884.00 V
dc Test Voltage	2500 V
Outer Contact Resistance, maximum	1.50 mOhm
Inner Contact Resistance, maximum	0.80 mOhm
Insulation Resistance, minimum	5000 MOhm
Average Power	600.0 W @ 900 MHz
Peak Power, maximum	22.50 kW
Insertion Loss, typical	0.05 dB
Shielding Effectiveness	-110 dB

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Outline Drawing



Mechanical Specifications

Outer Contact Attachment Method	Crush-flare
Inner Contact Attachment Method	Captivated
Outer Contact Plating	Trimetal
Inner Contact Plating	Silver
Attachment Durability	25 cycles
Interface Durability	100 cycles
Interface Durability Method	IEC 61169-4:9.5
Connector Retention Tensile Force	890 N 200 lbf
Connector Retention Torque	5.42 N-m 48.00 in lb
Coupling Nut Proof Torque	10.00 N-m 7.38 ft lb
Coupling Nut Retention Force	449.27 N 101.00 lbf

Dimensions

Nominal Size	1/2 in
Diameter	25.00 mm 0.98 in

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Length	62.45 mm 2.46 in
Weight	100.00 g 0.22 lb

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)
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66
Moisture Resistance Test Method	IEC 60068-2-3
Mechanical Shock Test Method	IEC 60068-2-27
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Corrosion Test Method	IEC 60068-2-11

Standard Conditions

Attenuation, Ambient Temperature	20 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F

Return Loss/VSWR

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	40.00
1000–2700 MHz	1.03	36.00
2700–3800 MHz	1.07	30.00
3800–6000 MHz	1.15	23.00

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
China RoHS SJ/T 11364-2014	Above Maximum Concentration Value (MCV)



* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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