F4A-PNRDM-8M-X

FSJ4-50B SureFlex® Jumper with interface types N Male Right Angle and 7-16 DIN Male, 8 m

Product Classification

I

Product Type	SureFlex® standard	
Product Brand	HELIAX® SureFlex®	
Product Series	FSJ4-50B	
General Specifications		
Attachment, Connector B	Field attachment	
Body Style, Connector A	Right angle	
Body Style, Connector B	Straight	
Interface, Connector A	N Male	
Interface, Connector B	7-16 DIN Male	
Specification Sheet Revision Level	А	
Dimensions		
Length	8 m 26.247 ft	
Nominal Size	1/2 in	
Electrical Specifications		
DTF, Connector A	-32 dB	
VSWR/Return Loss		
Frequency Band	VSWR, typical	Return
A AAAA MUU	4 406	05.04

Frequency Band	VSWR, typical	Return Loss, typical (dB)
0–3000 MHz	1.106	25.96
2.2–2.7 GHz	1.083	27.99

Jumper Assembly Sample Label

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F4A-PNRDM-8M-X



Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

Included Products

- F4HM-D 4.3-10 Male for 1/2 in FSJ4-50B cable
- F4HMP-D 4.3-10 Male Push Pull for 1/2 in FSJ4-50B cable
- F4PDMV2-C 7-16 DIN Male for 1/2 in FSJ4-50B cable

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F4HM-D



Product Classification

Product Type Product Brand

Product Series

Ordering Note

General Specifications

Body Style	Straight
Cable Family	FSJ4-50B
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Mounting Angle	Straight
Outer Contact Attachment Method	Crush-flare
Outer Contact Plating	Trimetal
Dimensions	
Length	62.48 mm 2.46 in

Lengui	02.4011111 2.40111
Diameter	24.89 mm 0.98 in
Nominal Size	1/2 in

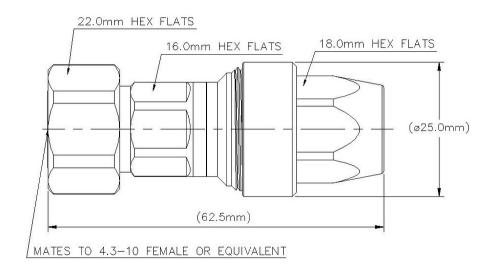
4.3-10 Male for 1/2 in FSJ4-50B cable

Wireless and radiating connector	
HELIAX®	
FSJ4-50B FSJ4RK-50B	
CommScope® standard product (Global)	

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Outline Drawing



Electrical Specifications

-116 dBm @ 910 MHz
Two +43 dBm carriers
-116 dB
0.05
600.0 W @ 900 MHz
50 ohm
50 ohm
2500 V
0.8 m0hm
5000 MOhm
0 – 7500 MHz
1.5 m0hm
22.5 kW
884 V

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F4HM-D

Shielding Effectiveness

-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	40.09
1000–2700 MHz	1.03	36.61
2700–3800 MHz	1.065	30.04
3800–6000 MHz	1.15	23.13

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	5.42 N-m 47.998 in lb
Coupling Nut Proof Torque	10 N-m 88.507 in lb
Coupling Nut Retention Force	449.27 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 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

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F4HM-D

Packaging and Weights

Weight, net

100 g | 0.22 lb

Regulatory Compliance/Certifications

AgencyClassificationCHINA-ROHSBelow maximum concentration valueISO 9001:2015Designed, manufactured and/or distributed under this quality management systemREACH-SVHCCompliant as per SVHC revision on www.commscope.com/ProductComplianceROHSCompliantUK-ROHSCompliantCompliantCompliant

* Footnotes

Insertion Loss Coefficient, typical	$0.05\sqrt{-}$ freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours

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F4HMP-D



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

Product Classification

Product Type

Product Brand

Product Series

Ordering Note

General Specifications

Body Style	Straight
Cable Family	FSJ4-50B
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Mounting Angle	Straight
Outer Contact Attachment Method	Crush-flare
Outer Contact Plating	Trimetal
Dimensions	

 Length
 62.48 mm |
 2.46 in

 Diameter
 27.94 mm |
 1.1 in

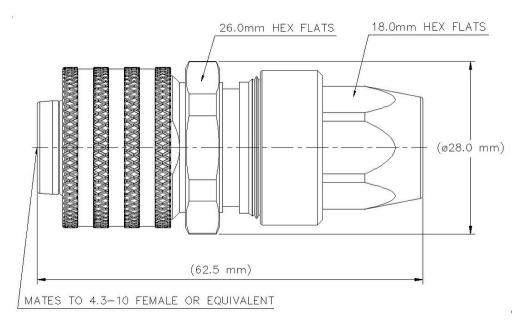
 Nominal Size
 1/2 in

Wireless and radiating connector HELIAX® FSJ4-50B | FSJ4RK-50B CommScope® standard product (Global)

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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 Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 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

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VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
45–1000 MHz	1.02	40.09
1000–2700 MHz	1.03	36.61
2700-3800 MHz	1.065	30.04
3800-6000 MHz	1.15	23.13

Mechanical Specifications

Attachment Durability	5 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	5.42 N-m 47.998 in lb
Interface Durability	25 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 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	IEC 60068-2-11
Immersion Depth	1 m
Immersion Test Mating	Mated
Immersion Test Method	IEC 60529:2001, IP68
Moisture Resistance Test Method	IEC 60068-2-3
Thermal Shock Test Method	IEC 60068-2-14
Vibration Test Method	IEC 60068-2-6
Water Jetting Test Mating	Mated
Water Jetting Test Method	IEC 60529:2001, IP66

Packaging and Weights

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F4HMP-D

Weight, net

Agency

123.37 g | 0.272 lb

Regulatory Compliance/Certifications

Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

* Footnotes

Immersion Depth Immersion at specified depth for 24 hours

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F4PDMV2-C



7-16 DIN Male for 1/2 in FSJ4-50B cable

Wireless and radiating connector

CommScope® standard product (Global)

FSJ4-50B | FSJ4RK-50B

HELIAX®

Product Type

Product Brand

Product Series

Ordering Note

General Specifications

Body Style	Straight
Cable Family	FSJ4-50B
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	7-16 DIN Male
Mounting Angle	Straight
Outer Contact Attachment Method	Crush-flare
Outer Contact Plating	Trimetal
Pressurizable	No
Dimensions	
Length	50.04 mm 1.97 in
Diameter	34.54 mm 1.36 in
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

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F4PDMV2-C

Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	1.0 kW @ 900 MHz
Cable Impedance	50 ohm
Connector Impedance	50 ohm
dc Test Voltage	2500 V
Inner Contact Resistance, maximum	0.8 m0hm
Insulation Resistance, minimum	5000 MOhm
Operating Frequency Band	0 – 7500 MHz
Outer Contact Resistance, maximum	1.5 m0hm
Peak Power, maximum	15.6 kW
RF Operating Voltage, maximum (vrms)	884 V
Shielding Effectiveness	-110 dB

VSWR/Return Loss

Frequency Band	VSWR	Return Loss (dB)
0–2200 MHz	1.032	36.06
2200–2700 MHz	1.046	32.96
2700–3000 MHz	1.052	31.92

Mechanical Specifications

Attachment Durability	25 cycles
Connector Retention Tensile Force	889.64 N 200 lbf
Connector Retention Torque	5.42 N-m 47.998 in lb
Coupling Nut Proof Torque	24.86 N-m 220.003 in lb
Coupling Nut Retention Force	1,000.85 N 225 lbf
Coupling Nut Retention Force Method	MIL-C-39012C-3.25, 4.6.22
Insertion Force	200.17 N 45 lbf
Insertion Force Method	IEC 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

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F4PDMV2-C

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 °C 68 °F
Average Power, Ambient Temperature	40 °C 104 °F
Corrosion Test Method	MIL-STD-1344A, Method 1001.1, Test Condition A
Immersion Depth	1 m
Immersion Test Mating	Mated
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 $^\circ\mathrm{C}$
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
UK-ROHS	Compliant



* Footnotes

Insertion Loss Coefficient, typical0.05√-freq (GHz) (not applicable for elliptical waveguide)Immersion DepthImmersion at specified depth for 24 hours

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