

# F4A-PDMDM-2M-X



FSJ4-50B SureFlex® Jumper with interface types 7-16 DIN Male and 7-16 DIN Male, 2 m

## Product Classification

Product Type	SureFlex® standard
Product Brand	HELIAX®   SureFlex®
Product Series	FSJ4-50B

## General Specifications

Attachment, Connector B	Field attachment
Body Style, Connector A	Straight
Body Style, Connector B	Straight
Interface, Connector A	7-16 DIN Male
Interface, Connector B	7-16 DIN Male
Specification Sheet Revision Level	A

## Dimensions

Length	2 m   6.562 ft
Nominal Size	1/2 in

## Electrical Specifications

DTF, Connector A	-32 dB
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## VSWR/Return Loss

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

# F4A-PDMDM-2M-X



## Environmental Specifications

**Immersion Test Method** Meets IEC 60529:2001, IP68 in mated condition

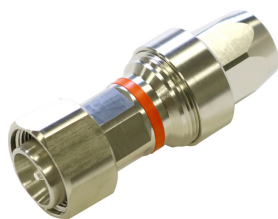
## Regulatory Compliance/Certifications

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

# F4HM-D



4.3-10 Male 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	ANDREW® standard product (Global)

## General Specifications

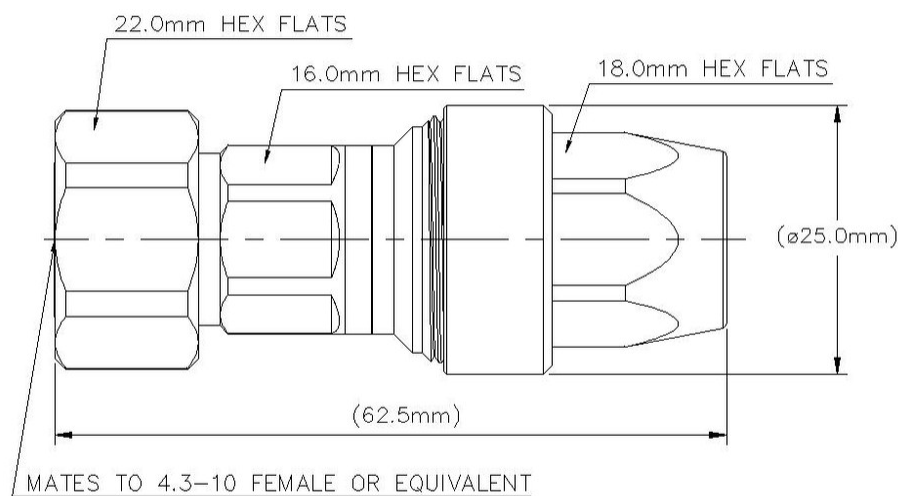
Body Style	Straight
Cable Family	FSJ4-50B
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Mounting Angle	Straight
Outer Contact Attachment Method	Crush-flare
Outer Contact Plating	Trimetal

## Dimensions

Length	62.48 mm   2.46 in
Diameter	24.89 mm   0.98 in
Nominal Size	1/2 in

# F4HM-D

## Outline Drawing



## Electrical Specifications

<b>3rd Order IMD at Frequency</b>	-116 dBm @ 910 MHz
<b>3rd Order IMD Dynamic Test Method</b>	Two +43 dBm carriers
<b>3rd Order IMD Dynamic, typical</b>	-116 dB
<b>Insertion Loss Coefficient, typical</b>	0.05
<b>Average Power at Frequency</b>	600.0 W @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	2500 V
<b>Inner Contact Resistance, maximum</b>	0.8 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 7500 MHz
<b>Outer Contact Resistance, maximum</b>	1.5 mOhm
<b>Peak Power, maximum</b>	22.5 kW
<b>RF Operating Voltage, maximum (vrms)</b>	884 V

# 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

# F4HM-D

## Packaging and Weights

**Weight, net** 100 g | 0.22 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## \* Footnotes

<b>Insertion Loss Coefficient, typical</b>	0.05√freq (GHz) (not applicable for elliptical waveguide)
<b>Immersion Depth</b>	Immersion at specified depth for 24 hours

# F4HMP-D



4.3-10 Male Push Pull 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	ANDREW® standard product (Global)

## General Specifications

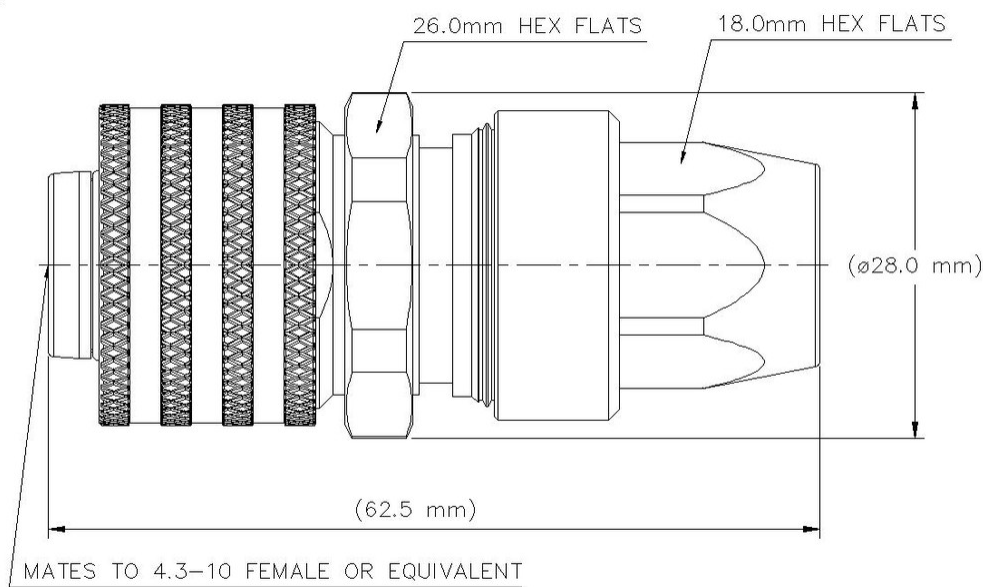
Body Style	Straight
Cable Family	FSJ4-50B
Inner Contact Attachment Method	Captivated
Inner Contact Plating	Silver
Interface	4.3-10 Male
Mounting Angle	Straight
Outer Contact Attachment Method	Crush-flare
Outer Contact Plating	Trimetal

## Dimensions

Length	62.48 mm   2.46 in
Diameter	27.94 mm   1.1 in
Nominal Size	1/2 in

# F4HMP-D

## Outline Drawing



## Electrical Specifications

<b>3rd Order IMD at Frequency</b>	-116 dBm @ 910 MHz
<b>3rd Order IMD Dynamic Test Method</b>	Two +43 dBm carriers
<b>3rd Order IMD Dynamic, typical</b>	-116 dB
<b>Insertion Loss Coefficient, typical</b>	0.05
<b>Average Power at Frequency</b>	600.0 W @ 900 MHz
<b>Cable Impedance</b>	50 ohm
<b>Connector Impedance</b>	50 ohm
<b>dc Test Voltage</b>	2500 V
<b>Inner Contact Resistance, maximum</b>	0.8 mOhm
<b>Insulation Resistance, minimum</b>	5000 MOhm
<b>Operating Frequency Band</b>	0 – 7500 MHz
<b>Outer Contact Resistance, maximum</b>	1.5 mOhm
<b>Peak Power, maximum</b>	22.5 kW
<b>RF Operating Voltage, maximum (vrms)</b>	884 V
<b>Shielding Effectiveness</b>	-110 dB



# F4HMP-D

## 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

# F4HMP-D

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**Weight, net** 123.37 g | 0.272 lb

## Regulatory Compliance/Certifications

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

## \* Footnotes

<b>Insertion Loss Coefficient, typical</b>	0.05√freq (GHz) (not applicable for elliptical waveguide)
<b>Immersion Depth</b>	Immersion at specified depth for 24 hours

# F4PDMV2-C



7-16 DIN Male 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	ANDREW® standard product (Global)

## 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
Insertion Loss Coefficient, typical	0.05
Average Power at Frequency	1.0 kW @ 900 MHz
Cable Impedance	50 ohm

# F4PDMV2-C

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	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

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

# F4PDMV2-C

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 °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
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## 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 <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## \* Footnotes

Insertion Loss Coefficient, typical	0.05√~freq (GHz) (not applicable for elliptical waveguide)
Immersion Depth	Immersion at specified depth for 24 hours