

F4A-PNMDM-6M-X



HELIAX® 1/2" SureFlex® Jumper with interface types N Male and 7-16 DIN Male, 6 m

Product Classification

| | |
|-----------------------|---------------------|
| Product Type | SureFlex® standard |
| Product Brand | HELIAX® SureFlex® |
| Product Series | RSJ4-50 |

General Specifications

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

Dimensions

| | |
|---------------------|-----------------|
| Length | 6 m 19.685 ft |
| Nominal Size | 1/2 in |

Electrical Specifications

| | |
|-------------------------|--------|
| DTF, Connector A | -32 dB |
|-------------------------|--------|

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-PNMDM-6M-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 | CommScope® standard product (Global) |

General Specifications

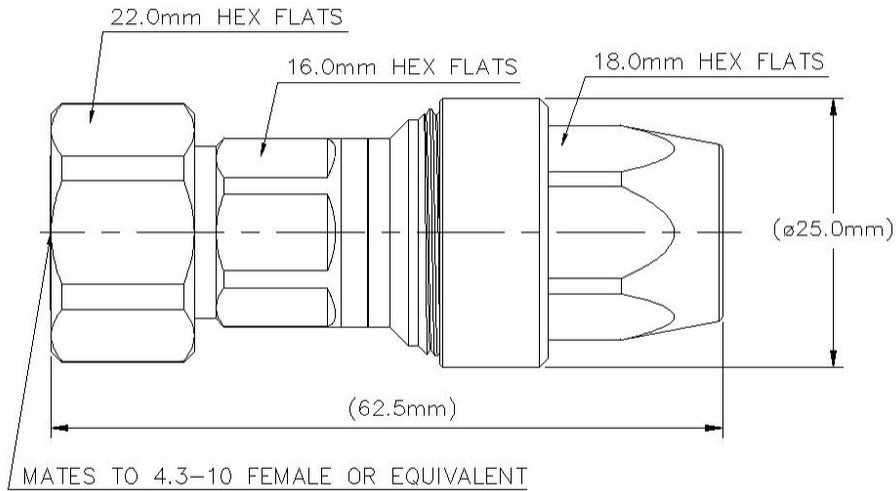
| | |
|--|-------------|
| Body Style | Straight |
| Cable Family | FSJ4-50B |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | 4.3-10 Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Crush-flare |
| Outer Contact Plating | Trimetal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

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

| | |
|---|----------------------|
| 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 |

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 www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



* Footnotes

Insertion Loss Coefficient, typical $0.05\sqrt{\text{freq (GHz)}}$ (not applicable for elliptical waveguide)

Immersion Depth 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 | CommScope® standard product (Global) |

General Specifications

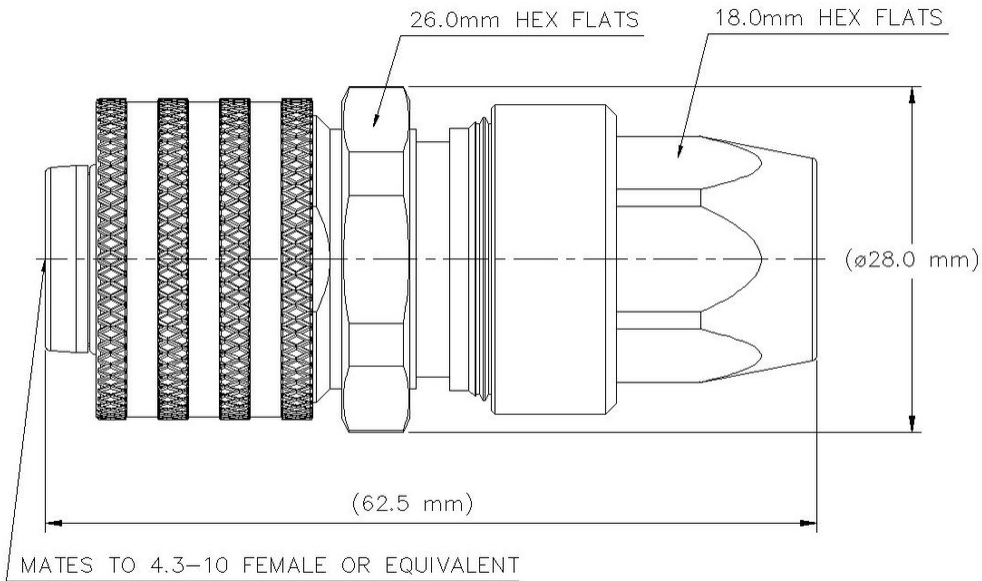
| | |
|--|-------------|
| Body Style | Straight |
| Cable Family | FSJ4-50B |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | 4.3-10 Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Crush-flare |
| Outer Contact Plating | Trimetal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

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

| | |
|---|----------------------|
| 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 |

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

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

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

Immersion Depth 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 | CommScope® 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 |

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 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

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 °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, typical | 0.05√freq (GHz) (not applicable for elliptical waveguide) |
| Immersion Depth | Immersion at specified depth for 24 hours |