

F4HM-F



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) |
| Warranty | Five years |

General Specifications

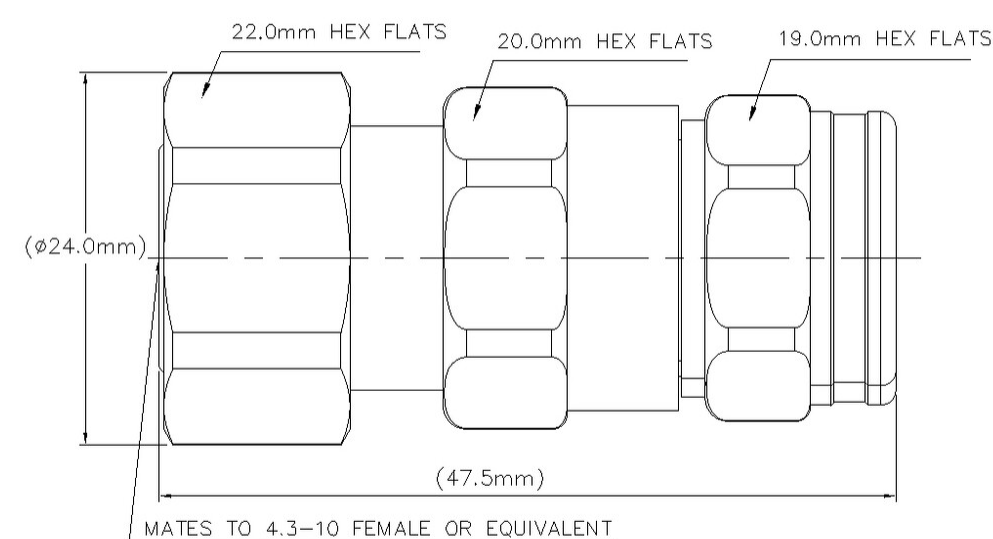
| | |
|---------------------------------|-------------|
| Body Style | Straight |
| Cable Family | FSJ4-50B |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | 4.3-10 Male |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Clamp |
| Outer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

Dimensions

| | |
|--------------|-------------------|
| Length | 47.5 mm 1.87 in |
| Diameter | 24 mm 0.945 in |
| Nominal Size | 1/2 in |

Outline Drawing

F4HM-F



Electrical Specifications

| | |
|--------------------------------------|----------------------|
| 3rd Order IMD at Frequency | -116 dBm @ 900 MHz |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| 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 | 2000 V |
| Impedance | 50 ohm |
| Inner Contact Resistance, maximum | 1 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Operating Frequency Band | 0 – 8800 MHz |
| Outer Contact Resistance, maximum | 1 mOhm |
| Peak Power, maximum | 22.5 kW |
| RF Operating Voltage, maximum (vrms) | 884 V |
| Shielding Effectiveness | -110 dB |

F4HM-F

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) | Gated VSWR | Gated Return Loss (dB) | VSWR, typical | Return Loss, typical (dB) |
|----------------|-------|------------------|------------|------------------------|---------------|---------------------------|
| 0–3000 MHz | 1.101 | 26.4 | 1.032 | 36 | | |
| 3000–4000 MHz | 1.253 | 19 | 1.041 | 34 | | |
| 4000–5000 MHz | 1.253 | 19 | 1.065 | 30 | | |
| 5000–6000 MHz | 1.253 | 19 | 1.106 | 26 | | |
| 6000–8800 MHz | | | 1.253 | 19 | 1.577 | 13 |

Mechanical Specifications

| | |
|-----------------------------------|------------------------|
| Attachment Durability | 25 cycles |
| Connector Retention Tensile Force | 445 N 100.04 lbf |
| Connector Retention Torque | 2.5 N-m 22.127 in lb |
| Coupling Nut Proof Torque | 10 N-m 88.507 in lb |
| Coupling Nut Retention Force | 449.27 N 101 lbf |
| Insertion Force | 66.72 N 14.999 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 | -45 °C to +85 °C (-49 °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 |

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Packaging and Weights

| | |
|--------------------|--------------------|
| Height, packed | 248.92 mm 9.8 in |
| Width, packed | 266.7 mm 10.5 in |
| Length, packed | 266.7 mm 10.5 in |
| Packaging quantity | 50 |
| Weight, net | 72.69 g 0.16 lb |

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|--|
| CHINA-ROHS | Below maximum concentration value |
| REACH-SVHC | Compliant as per SVHC revision on www.andrew.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



* Footnotes

| | |
|-------------------------------------|--|
| Warranty | For more information, please consult our Product Warranty guidelines |
| Insertion Loss Coefficient, typical | 0.05v~freq (GHz) (not applicable for elliptical waveguide) |
| Immersion Depth | Immersion at specified depth for 24 hours |