

L4DF-F



7-16 DIN Female for 1/2 in LDF4-50A cable

Product Classification

| | |
|----------------|-----------------------------------|
| Product Type | Wireless and radiating connector |
| Product Brand | HELIAX® |
| Product Series | LDF4-50A |
| Ordering Note | ANDREW® standard product (Global) |
| Warranty | Five years |

General Specifications

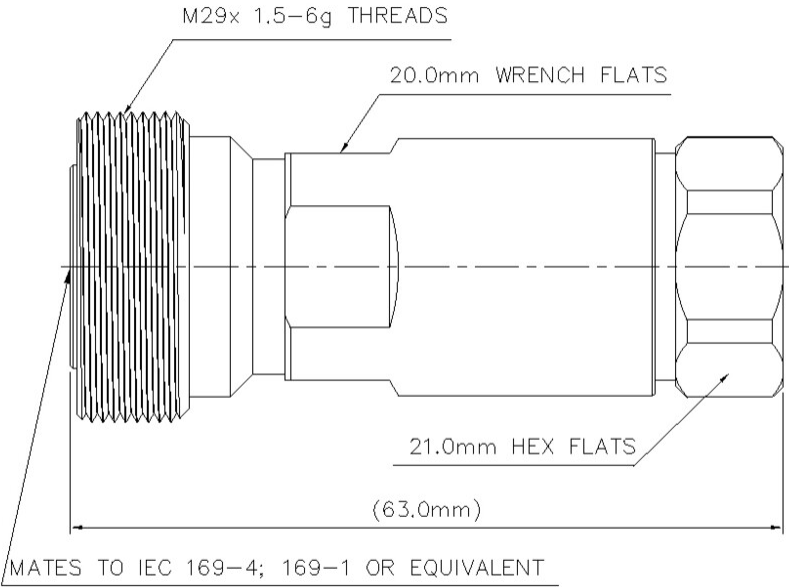
| | |
|---------------------------------|-----------------|
| Body Style | Straight |
| Cable Family | LDF4-50A |
| Inner Contact Attachment Method | Captivated |
| Inner Contact Plating | Silver |
| Interface | 7-16 DIN Female |
| Mounting Angle | Straight |
| Outer Contact Attachment Method | Clamp |
| Outer Contact Plating | Trimetal |

Dimensions

| | |
|--------------|------------------|
| Length | 63 mm 2.48 in |
| Diameter | 29 mm 1.142 in |
| Nominal Size | 1/2 in |

Outline Drawing

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Electrical Specifications

| | |
|---|-----------------------------|
| 3rd Order IMD at Frequency | -120 dBm @ 900 MHz |
| 3rd Order IMD Dynamic Test Method | Tapping/Impact, no rotation |
| 3rd Order IMD Dynamic, typical | -97 dBm |
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| Insertion Loss Coefficient, typical | 0.05 |
| Average Power at Frequency | 1.1 kW @ 900 MHz |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 4000 V |
| Impedance | 50 ohm |
| Inner Contact Resistance, maximum | 0.4 mOhm |
| Insulation Resistance, minimum | 10000 mOhm |
| Operating Frequency Band | 0 – 7500 MHz |
| Outer Contact Resistance, maximum | 1.5 mOhm |
| RF Operating Voltage, maximum (vrms) | 1415 V |

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VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) | Gated VSWR | Gated Return Loss (dB) | VSWR, typical | Return Loss, typical (dB) |
|----------------|------|------------------|------------|------------------------|---------------|---------------------------|
| 0–1000 MHz | 1.06 | 30.7 | 1.023 | 39 | | |
| 1000–2200 MHz | 1.12 | 24.94 | 1.036 | 35 | | |
| 2200–3000 MHz | 1.15 | 23.13 | 1.041 | 34 | | |
| 3000–4000 MHz | 1.2 | 20.83 | 1.041 | 34 | | |
| 4000–6000 MHz | 1.25 | 19.08 | 1.065 | 30 | | |
| 6000–7500 MHz | | | 1.119 | 25 | 1.484 | 14.2 |
| 7000–8800 MHz | | | 1.253 | 19 | 1.484 | 14.2 |

Mechanical Specifications

| | |
|-----------------------------------|------------------------|
| Attachment Durability | 25 cycles |
| Connector Retention Tensile Force | 600 N 134.885 lbf |
| Connector Retention Torque | 4.5 N-m 39.828 in lb |
| Insertion Force | 200 N 44.962 lbf |
| Insertion Force Method | IEC 61169-4:9.3.5 |
| Interface Durability | 500 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) |
| Corrosion Test Method | IEC 60068-2-11 |
| Immersion Depth | 1 m |
| Immersion Test Mating | Mated |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Thermal Shock Test Method | IEC 60068-2-14 |
| Vibration Test Method | IEC 60068-2-6 |

Packaging and Weights

L4DF-F

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

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