# L12PDM

7-16 DIN Male for 2-1/4 in LDF12-50 cable

OBSOLETE

This product was discontinued on: February 11, 2015

## Product Classification

| | |
|---|---|
| **Product Type** | Wireless and radiating connector |
| **Product Brand** | HELIAX® |
| **Ordering Note** | CommScope® non-standard product |

## General Specifications

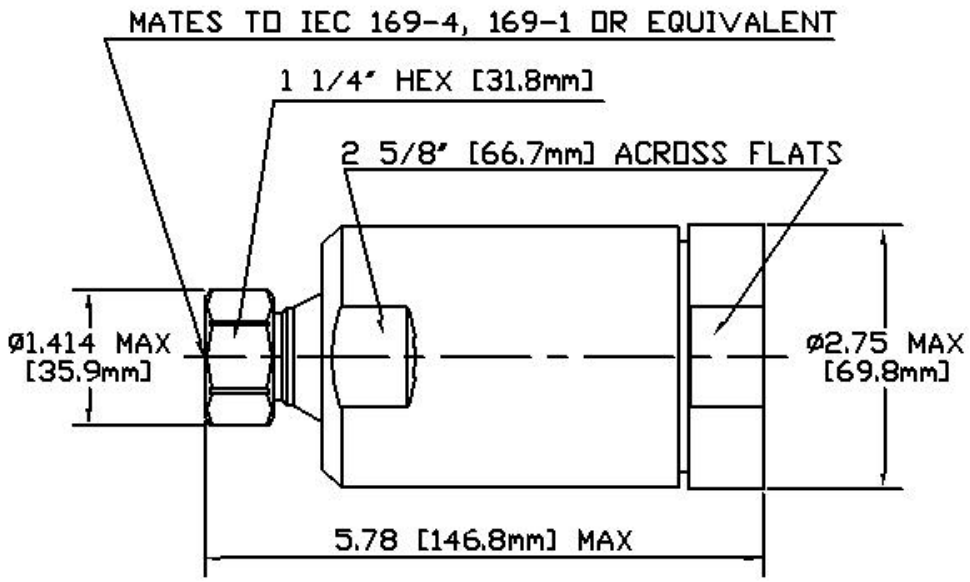
| | |
|---|---|
| **Body Style** | Straight |
| **Cable Family** | LDF12-50 |
| **Inner Contact Attachment Method** | Self-tapping |
| **Inner Contact Plating** | Silver |
| **Interface** | 7-16 DIN Male |
| **Mounting Angle** | Straight |
| **Outer Contact Attachment Method** | Self-flare |
| **Outer Contact Plating** | Trimetal |
| **Pressurizable** | No |

## Dimensions

| | |
|---|---|
| **Length** | 147.32 mm \| 5.8 in |
| **Diameter** | 71.12 mm \| 2.8 in |
| **Nominal Size** | 2-1/4 in |

## Outline Drawing

# L12PDM




## Electrical Specifications

| | |
|---|---|
| **Insertion Loss Coefficient, typical** | 0.05 |
| **Average Power at Frequency** | 3.0 kW @ 900 MHz |
| **Cable Impedance** | 50 ohm |
| **Connector Impedance** | 50 ohm |
| **dc Test Voltage** | 4000 V |
| **Inner Contact Resistance, maximum** | 0.8 mOhm |
| **Insulation Resistance, minimum** | 5000 MOhm |
| **Operating Frequency Band** | 0 – 2200 MHz |
| **Outer Contact Resistance, maximum** | 1.5 mOhm |
| **Peak Power, maximum** | 40 kW |
| **RF Operating Voltage, maximum (vrms)** | 1415 V |
| **Shielding Effectiveness** | -130 dB |

## VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|---|---|---|
| **45–1000 MHz** | 1.065 | 30.04 |
| **1010–1300 MHz** | 1.094 | 26.96 |
| **1310–2200 MHz** | 1.152 | 23.02 |

## Mechanical Specifications

| | |
|---|---|
| **Attachment Durability** | 25 cycles |
| **Coupling Nut Retention Force** | 1,000.85 N \| 225 lbf |
| **Coupling Nut Retention Force Method** | MIL-C-39012C-3.25, 4.6.22 |
| **Interface Durability** | 500 cycles |
| **Interface Durability Method** | IEC 61169-16:9.5 |
| **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 |
| **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-202F, Method 107G, 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

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|---|---|
| **Weight, net** | 1,542.24 g \| 3.4 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 |