

# L2PNF



Type N Female for 3/8 in LDF2-50 cable

## OBSOLETE

This product was discontinued on: December 31, 2010

### Replaced By:

|           |   |
|-----------|---|
| L2TNF-PL  | Type N Female Positive Lock for 3/8 in LDF2-50 cable                  |
| L2TNF-PLP | Type N Female (PEEK Insulator) Positive Lock for 3/8 in LDF2-50 cable |

## Product Classification

|                      |                                  |
|----------------------|----------------------------------|
| <b>Product Type</b>  | Wireless and radiating connector |
| <b>Product Brand</b> | HELIAX®                          |

## General Specifications

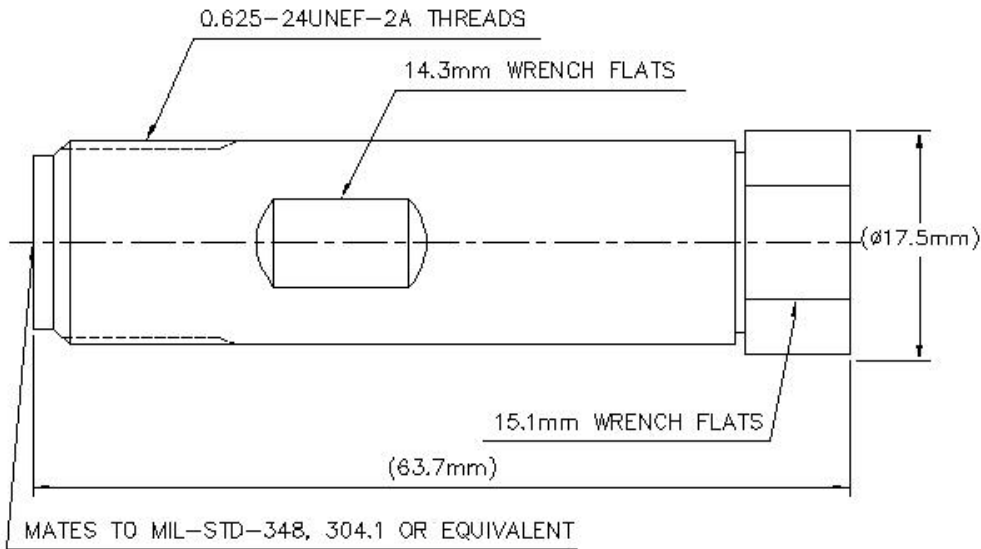
|  |            |
|--|------------|
| <b>Body Style</b>                      | Straight   |
| <b>Cable Family</b>                    | LDF2-50    |
| <b>Inner Contact Attachment Method</b> | Solder     |
| <b>Inner Contact Plating</b>           | Gold       |
| <b>Interface</b>                       | N Female   |
| <b>Mounting Angle</b>                  | Straight   |
| <b>Outer Contact Attachment Method</b> | Self-flare |
| <b>Outer Contact Plating</b>           | Silver     |
| <b>Pressurizable</b>                   | No         |

## Dimensions

|                     |                    |
|---------------------|--------------------|
| <b>Length</b>       | 63.75 mm   2.51 in |
| <b>Diameter</b>     | 17.53 mm   0.69 in |
| <b>Nominal Size</b> | 3/8 in             |

# L2PNF

## Outline Drawing



## Electrical Specifications

|   |                      |
|---|----------------------|
| <b>3rd Order IMD at Frequency</b>           | -112 dBm @ 910 MHz   |
| <b>3rd Order IMD Test Method</b>            | Two +43 dBm carriers |
| <b>Average Power at Frequency</b>           | 0.7 kW @ 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>    | 1 mOhm               |
| <b>Insulation Resistance, minimum</b>       | 5000 MOhm            |
| <b>Operating Frequency Band</b>             | 0 – 6000 MHz         |
| <b>Outer Contact Resistance, maximum</b>    | 0.25 mOhm            |
| <b>Peak Power, maximum</b>                  | 10 kW                |
| <b>RF Operating Voltage, maximum (vrms)</b> | 707 V                |
| <b>Shielding Effectiveness</b>              | -110 dB              |

## Mechanical Specifications

|  |                        |
|--|------------------------|
| <b>Connector Retention Tensile Force</b> | 671.68 N   151 lbf     |
| <b>Connector Retention Torque</b>        | 2.7 N-m   23.897 in lb |

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|  |                     |
|--|---------------------|
| <b>Coupling Nut Proof Torque Method</b>    | IEC 61169-16:9.3.11 |
| <b>Coupling Nut Retention Force</b>        | 445 N   100.04 lbf  |
| <b>Coupling Nut Retention Force Method</b> | IEC 61169-16:9.3.11 |
| <b>Insertion Force</b>                     | 124.55 N   28 lbf   |
| <b>Insertion Force Method</b>              | IEC 61169-16:9.3.5  |
| <b>Interface Durability</b>                | 500 cycles          |
| <b>Interface Durability Method</b>         | IEC 61169-4:17      |
| <b>Mechanical Shock Test Method</b>        | IEC 60068-2-27      |

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Operating Temperature</b>                      | -55 °C to +85 °C (-67 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -65 °C to +125 °C (-85 °F to +257 °F) |
| <b>Attenuation, Ambient Temperature</b>           | 20 °C   68 °F                         |
| <b>Average Power, Ambient Temperature</b>         | 40 °C   104 °F                        |
| <b>Average Power, Inner Conductor Temperature</b> | 100 °C   212 °F                       |
| <b>Corrosion Test Method</b>                      | IEC 60068-2-11                        |
| <b>Immersion Depth</b>                            | 1 m                                   |
| <b>Immersion Test Mating</b>                      | Mated                                 |
| <b>Immersion Test Method</b>                      | IEC 60529:2001, IP68                  |
| <b>Moisture Resistance Test Method</b>            | IEC 60068-2-3                         |
| <b>Thermal Shock Test Method</b>                  | IEC 60068-2-14                        |
| <b>Vibration Test Method</b>                      | IEC 60068-2-6                         |

## Packaging and Weights

|                    |                 |
|--------------------|-----------------|
| <b>Weight, net</b> | 91 g   0.201 lb |
|--------------------|-----------------|

## \* Footnotes

|                        |   |
|------------------------|---|
| <b>Immersion Depth</b> | Immersion at specified depth for 24 hours |
|------------------------|---|