

# L4-DMDM-SGW-D

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Base Product



D-CLASS LDF4-50A SureFlex® Jumper with interface types 7-16 DIN Male and 7-16 DIN Male with HELIAX® SureGuard weatherproofing

## Product Classification

|                       |                                |
|-----------------------|--------------------------------|
| <b>Product Type</b>   | SureFlex® D-CLASS, dynamic PIM |
| <b>Product Brand</b>  | HELIAX®   SureFlex®            |
| <b>Product Series</b> | LDF4-50A                       |

## General Specifications

|   |                  |
|---|------------------|
| <b>Attachment, Connector A</b>            | Factory attached |
| <b>Attachment, Connector B</b>            | Factory attached |
| <b>Body Style, Connector A</b>            | Straight         |
| <b>Body Style, Connector B</b>            | Straight         |
| <b>Interface, Connector A</b>             | 7-16 DIN Male    |
| <b>Interface, Connector B</b>             | 7-16 DIN Male    |
| <b>Specification Sheet Revision Level</b> | A                |

## Dimensions

|                     |        |
|---------------------|--------|
| <b>Nominal Size</b> | 1/2 in |
|---------------------|--------|

## Logo Image

# L4-DMDM-SGW-D



## Electrical Specifications

|  |                                    |
|--|------------------------------------|
| <b>3rd Order IMD Dynamic</b>             | -116 dBm                           |
| <b>3rd Order IMD Dynamic Test Method</b> | Two +43 dBm carriers per IEC 62037 |
| <b>DTF, Connector A</b>                  | -34 dB                             |
| <b>DTF, Connector B</b>                  | -34 dB                             |

## Jumper Assembly Sample Label



# L4-DMDM-SGW-D

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## Environmental Specifications

**Immersion Test Method** Meets IEC 60529:2001, IP68 in mated condition

**Weatherproofing Method** HELIAX® SureGuard weatherproofing boot

## Included Products

- HSG-M29-ADPT – HELIAX® SureGuard® sealing adapter for fully threaded device ports that will form a weather seal with the HELIAX® SureGuard Boots (HSG-LDF4, HSG-LDF4-DR, HSG-FSJ4 and HSG-FSJ4-DR)
- HSG-M29-ADPT-L – HELIAX® SureGuard® sealing adapter for fully threaded device ports that will form a weather seal with the HELIAX® SureGuard Boots (HSG-LDF4, HSG-LDF4-DR, HSG-FSJ4 and HSG-FSJ4-DR)
- LDF4-50A – LDF4-50A, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket Halogen free jacketing non-fire-retardant (General purpose cable for outdoor use only)

# HSG-M29-ADPT

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HELIAX® SureGuard® sealing adapter for fully threaded device ports that will form a weather seal with the HELIAX® SureGuard Boots (HSG-LDF4, HSG-LDF4-DR, HSG-FSJ4 and HSG-FSJ4-DR)

## Product Classification

|                      |                              |
|----------------------|------------------------------|
| <b>Product Type</b>  | Weatherproofing boot         |
| <b>Product Brand</b> | HELIAX®   SureGuard®         |
| <b>Ordering Note</b> | ANDREW® non-standard product |

## General Specifications

|                              |  |
|------------------------------|--|
| <b>Application</b>           | Provides moisture seal for fully threaded device ports |
| <b>Applications per Kit</b>  | Ten device connections                                 |
| <b>Color</b>                 | Black  |
| <b>Device Port Interface</b> | 7-16 DIN Female  |
| <b>Thread Size</b>           | M29  |

## Dimensions

|                       |                    |
|-----------------------|--------------------|
| <b>Width</b>          | 35.5 mm   1.398 in |
| <b>Length</b>         | 12 mm   0.472 in   |
| <b>Inner Diameter</b> | 28.3 mm   1.114 in |

## Material Specifications

|                      |                               |
|----------------------|-------------------------------|
| <b>Material Type</b> | Thermoplastic elastomer (TPE) |
|----------------------|-------------------------------|

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Installation temperature</b>                   | -40 °C to +65 °C (-40 °F to +149 °F)  |
| <b>Operating Temperature</b>                      | -40 °C to +85 °C (-40 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -55 °C to +85 °C (-67 °F to +185 °F)  |
| <b>UV Resistance Test Method</b>                  | ASTM G154-12a                         |
| <b>UV Resistance, minimum with no degradation</b> | ≥1000 hours                           |
| <b>Weather Resistance Test Method</b>             | IEC 60068-2-11   IEC 60529:2001, IP68 |

# HSG-M29-ADPT

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## Packaging and Weights

|                           |                    |
|---------------------------|--------------------|
| <b>Height, packed</b>     | 25.5 mm   1.004 in |
| <b>Width, packed</b>      | 120 mm   4.724 in  |
| <b>Length, packed</b>     | 140 mm   5.512 in  |
| <b>Packaging quantity</b> | 10                 |
| <b>Weight, gross</b>      | 37 g   0.082 lb    |

# HSG-M29-ADPT-L



HELIAX® SureGuard® sealing adapter for fully threaded device ports that will form a weather seal with the HELIAX® SureGuard Boots (HSG-LDF4, HSG-LDF4-DR, HSG-FSJ4 and HSG-FSJ4-DR)

## Product Classification

|                      |                              |
|----------------------|------------------------------|
| <b>Product Type</b>  | Weatherproofing boot         |
| <b>Product Brand</b> | HELIAX®   SureGuard®         |
| <b>Ordering Note</b> | ANDREW® non-standard product |

## General Specifications

|                              |  |
|------------------------------|--|
| <b>Application</b>           | Provides moisture seal for fully threaded device ports |
| <b>Applications per Kit</b>  | Ten device connections                                 |
| <b>Color</b>                 | Black  |
| <b>Device Port Interface</b> | 7-16 DIN Female  |
| <b>Thread Size</b>           | M29  |

## Dimensions

|                       |                    |
|-----------------------|--------------------|
| <b>Width</b>          | 41 mm   1.614 in   |
| <b>Length</b>         | 14.6 mm   0.575 in |
| <b>Inner Diameter</b> | 28.3 mm   1.114 in |

## Material Specifications

|                      |                               |
|----------------------|-------------------------------|
| <b>Material Type</b> | Thermoplastic elastomer (TPE) |
|----------------------|-------------------------------|

## Environmental Specifications

|   |                                       |
|---|---------------------------------------|
| <b>Installation temperature</b>                   | -40 °C to +65 °C (-40 °F to +149 °F)  |
| <b>Operating Temperature</b>                      | -40 °C to +85 °C (-40 °F to +185 °F)  |
| <b>Storage Temperature</b>                        | -55 °C to +85 °C (-67 °F to +185 °F)  |
| <b>UV Resistance Test Method</b>                  | ASTM G154-12a                         |
| <b>UV Resistance, minimum with no degradation</b> | ≥1000 hours                           |
| <b>Weather Resistance Test Method</b>             | IEC 60068-2-11   IEC 60529:2001, IP68 |

# HSG-M29-ADPT-L

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## Packaging and Weights

|                           |                   |
|---------------------------|-------------------|
| <b>Height, packed</b>     | 15 mm   0.591 in  |
| <b>Width, packed</b>      | 120 mm   4.724 in |
| <b>Length, packed</b>     | 140 mm   5.512 in |
| <b>Packaging quantity</b> | 10                |
| <b>Weight, gross</b>      | 55 g   0.121 lb   |

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CHINA-ROHS    | Below maximum concentration value  |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.andrew.com/ProductCompliance">www.andrew.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



# LDF4-50A

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LDF4-50A, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/2 in, black PE jacket Halogen free jacketing non-fire-retardant (General propose cable for outdoor use only)

## Product Classification

|                       |                                   |
|-----------------------|-----------------------------------|
| <b>Product Type</b>   | Coaxial wireless cable            |
| <b>Product Brand</b>  | HELIAX®                           |
| <b>Product Series</b> | LDF4-50A                          |
| <b>Ordering Note</b>  | ANDREW® standard product (Global) |

## General Specifications

|                         |  |
|-------------------------|--|
| <b>Product Number</b>   | 520094002/00   SZ520094902/00                    |
| <b>Flexibility</b>      | Standard   |
| <b>Jacket Color</b>     | Black  |
| <b>Performance Note</b> | Attenuation values typical, guaranteed within 5% |

## Dimensions

|                                 |                      |
|---------------------------------|----------------------|
| <b>Diameter Over Dielectric</b> | 12.954 mm   0.51 in  |
| <b>Diameter Over Jacket</b>     | 15.875 mm   0.625 in |
| <b>Inner Conductor OD</b>       | 4.826 mm   0.19 in   |
| <b>Outer Conductor OD</b>       | 13.97 mm   0.55 in   |
| <b>Nominal Size</b>             | 1/2 in               |

## Electrical Specifications

|  |                               |
|--|-------------------------------|
| <b>Cable Impedance</b>                 | 50 ohm ±1 ohm                 |
| <b>Capacitance</b>                     | 75.8 pF/m   23.104 pF/ft      |
| <b>dc Resistance, Inner Conductor</b>  | 1.48 ohms/km   0.451 ohms/kft |
| <b>dc Resistance, Outer Conductor</b>  | 2.69 ohms/km   0.82 ohms/kft  |
| <b>dc Test Voltage</b>                 | 4000 V                        |
| <b>Inductance</b>                      | 0.19 µH/m   0.058 µH/ft       |
| <b>Insulation Resistance</b>           | 100000 MOhms-km               |
| <b>Jacket Spark Test Voltage (rms)</b> | 8000 V                        |

# LDF4-50A

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|                                 |              |
|---------------------------------|--------------|
| <b>Operating Frequency Band</b> | 1 – 8800 MHz |
| <b>Peak Power</b>               | 40 kW        |
| <b>Velocity</b>                 | 88 %         |

## VSWR/Return Loss

| <b>Frequency Band</b> | <b>VSWR</b> | <b>Return Loss (dB)</b> |
|-----------------------|-------------|-------------------------|
| <b>680–800 MHz</b>    | 1.13        | 24.3                    |
| <b>800–960 MHz</b>    | 1.13        | 24.3                    |
| <b>1700–2200 MHz</b>  | 1.13        | 24.3                    |
| <b>2300–2700 MHz</b>  | 1.13        | 24.3                    |

## Material Specifications

|                                 |                           |
|---------------------------------|---------------------------|
| <b>Dielectric Material</b>      | Foam PE                   |
| <b>Jacket Material</b>          | PE                        |
| <b>Inner Conductor Material</b> | Copper-clad aluminum wire |
| <b>Outer Conductor Material</b> | Corrugated copper         |

## Mechanical Specifications

|  |                         |
|--|-------------------------|
| <b>Minimum Bend Radius, multiple Bends</b> | 127 mm   5 in           |
| <b>Minimum Bend Radius, single Bend</b>    | 50.8 mm   2 in          |
| <b>Number of Bends, minimum</b>            | 15                      |
| <b>Number of Bends, typical</b>            | 50                      |
| <b>Tensile Strength</b>                    | 113 kg   249.122 lb     |
| <b>Bending Moment</b>                      | 3.8 N-m   33.633 in lb  |
| <b>Flat Plate Crush Strength</b>           | 2 kg/mm   111.995 lb/in |

## Environmental Specifications

|   |                                      |
|---|--------------------------------------|
| <b>Installation temperature</b>                   | -40 °C to +60 °C (-40 °F to +140 °F) |
| <b>Operating Temperature</b>                      | -55 °C to +85 °C (-67 °F to +185 °F) |
| <b>Storage Temperature</b>                        | -70 °C to +85 °C (-94 °F to +185 °F) |
| <b>Attenuation, Ambient Temperature</b>           | 68 °F   20 °C                        |
| <b>Average Power, Ambient Temperature</b>         | 104 °F   40 °C                       |
| <b>Average Power, Inner Conductor Temperature</b> | 212 °F   100 °C                      |

# LDF4-50A

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## Packaging and Weights

**Cable weight**

0.22 kg/m | 0.148 lb/ft

## Regulatory Compliance/Certifications

**Agency**

**Classification**

CENELEC

EN 50575 compliant, Declaration of Performance (DoP) available

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.andrew.com/ProductCompliance](http://www.andrew.com/ProductCompliance)

ROHS

Compliant

UK-ROHS

Compliant

