L2-PDMDFPM-2F5

LDF2-50 Jumper with interface types 7-16 DIN Male and 7-16 DIN Female Panel Mount, 0.76 m

OBSOLETE

This product was discontinued on: August 15, 2017

Flat

Product Classification

| Product Type | | Wireless transmissi | ion cable assembly |
|------------------------------------|-------|---------------------|--------------------|
| Product Brand | | HELIAX® | |
| Product Series | | LDF2-50 | |
| General Specifications | | | |
| Body Style, Connector A | | Straight | |
| Body Style, Connector B | | Panel mount | |
| Interface, Connector A | | 7-16 DIN Male | |
| Interface, Connector B | | 7-16 DIN Female | |
| Specification Sheet Revision Level | | А | |
| Dimensions | | | |
| Length | | 0.76 m 2.493 ft | |
| Nominal Size | | 3/8 in | |
| Electrical Specifications | | | |
| DTF, Connector A | | -32 dB | |
| DTF, Connector B | | -32 dB | |
| VSWR/Return Loss | | | |
| Frequency Band | VSWR | | Return Loss (dB) |
| 700–3000 MHz | 1.222 | | 20.01 |

Jumper Assembly Sample Label

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L2-PDMDFPM-2F5



Environmental Specifications

Immersion Test Method

Meets IEC 60529:2001, IP68 in mated condition

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| A | |



Included Products

| 35422-23 | - | Heat Treated LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket |
|----------|---|---|
| L2TDM-PL | _ | 7-16 DIN Male Positive Lock for 3/8 in LDF2-50 cable |
| L2TKM-PL | - | 4.1/9.5 Mini-Din Male connector with LDF2-50 cable |
| LDF2-50 | _ | LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket |

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35422-23

Heat Treated LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

| Product Classification | |
|---------------------------------|--|
| Product Type | Coaxial wireless cable |
| Product Brand | HELIAX® SureFlex® |
| Product Series | LDF2-50 |
| General Specifications | |
| Flexibility | Standard |
| Jacket Color | Black |
| Performance Note | Attenuation values typical, guaranteed within 5% |
| Dimensions | |
| Diameter Over Dielectric | 8.636 mm 0.34 in |
| Diameter Over Jacket | 11.176 mm 0.44 in |
| Inner Conductor OD | 3.048 mm 0.12 in |
| Outer Conductor OD | 9.652 mm 0.38 in |
| Nominal Size | 3/8 in |
| Electrical Specifications | |
| Cable Impedance | 50 ohm ±1 ohm |
| Capacitance | 75.5 pF/m 23.012 pF/ft |
| dc Resistance, Inner Conductor | 3.478 ohms/km 1.06 ohms/kft |
| dc Resistance, Outer Conductor | 2.854 ohms/km 0.87 ohms/kft |
| dc Test Voltage | 2500 V |
| Inductance | 0.19 μH/m 0.058 μH/ft |
| Insulation Resistance | 100000 MOhms-km |
| Jacket Spark Test Voltage (rms) | 5000 V |
| Operating Frequency Band | 1 – 13000 MHz |
| Peak Power | 15.6 kW |
| Velocity | 85 % |

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Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) |
|-----------------|------------------------|-------------------------|--------------------|
| 1.0 | 0.332 | 0.101 | 15.6 |
| 1.5 | 0.407 | 0.124 | 15.6 |
| 2.0 | 0.471 | 0.143 | 15.6 |
| 10.0 | 1.059 | 0.323 | 7.28 |
| 20.0 | 1.503 | 0.458 | 5.13 |
| 30.0 | 1.847 | 0.563 | 4.17 |
| 50.0 | 2.397 | 0.73 | 3.22 |
| 85.0 | 3.146 | 0.959 | 2.45 |
| 88.0 | 3.203 | 0.976 | 2.41 |
| 100.0 | 3.421 | 1.043 | 2.25 |
| 108.0 | 3.559 | 1.085 | 2.17 |
| 150.0 | 4.219 | 1.286 | 1.83 |
| 174.0 | 4.558 | 1.389 | 1.69 |
| 200.0 | 4.901 | 1.494 | 1.57 |
| 204.0 | 4.952 | 1.509 | 1.56 |
| 300.0 | 6.062 | 1.847 | 1.27 |
| 400.0 | 7.057 | 2.151 | 1.09 |
| 450.0 | 7.513 | 2.29 | 1.03 |
| 460.0 | 7.601 | 2.317 | 1.01 |
| 500.0 | 7.947 | 2.422 | 0.97 |
| 512.0 | 8.048 | 2.453 | 0.96 |
| 600.0 | 8.761 | 2.67 | 0.88 |
| 700.0 | 9.519 | 2.901 | 0.81 |
| 800.0 | 10.232 | 3.119 | 0.75 |
| 824.0 | 10.398 | 3.169 | 0.74 |
| 894.0 | 10.869 | 3.313 | 0.71 |
| 960.0 | 11.299 | 3.444 | 0.68 |
| 1000.0 | 11.554 | 3.521 | 0.67 |
| 1218.0 | 12.874 | 3.924 | 0.6 |
| 1250.0 | 13.059 | 3.98 | 0.59 |
| 1500.0 | 14.446 | 4.403 | 0.53 |

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35422-23

| 1700.0 | 15.49 | 4.721 | 0.5 |
|---------|--------|--------|------|
| 1794.0 | 15.964 | 4.866 | 0.48 |
| 1800.0 | 15.994 | 4.875 | 0.48 |
| 2000.0 | 16.97 | 5.172 | 0.45 |
| 2100.0 | 17.443 | 5.316 | 0.44 |
| 2200.0 | 17.908 | 5.458 | 0.43 |
| 2300.0 | 18.365 | 5.597 | 0.42 |
| 2500.0 | 19.257 | 5.869 | 0.4 |
| 2700.0 | 20.122 | 6.133 | 0.38 |
| 3000.0 | 21.376 | 6.515 | 0.36 |
| 3400.0 | 22.978 | 7.003 | 0.34 |
| 3600.0 | 23.754 | 7.24 | 0.32 |
| 3700.0 | 24.136 | 7.356 | 0.32 |
| 3800.0 | 24.514 | 7.471 | 0.31 |
| 3900.0 | 24.888 | 7.586 | 0.31 |
| 4000.0 | 25.26 | 7.699 | 0.31 |
| 4100.0 | 25.627 | 7.811 | 0.3 |
| 4200.0 | 25.992 | 7.922 | 0.3 |
| 4300.0 | 26.354 | 8.032 | 0.29 |
| 4400.0 | 26.713 | 8.142 | 0.29 |
| 4500.0 | 27.069 | 8.25 | 0.28 |
| 4600.0 | 27.422 | 8.358 | 0.28 |
| 4700.0 | 27.773 | 8.465 | 0.28 |
| 4800.0 | 28.12 | 8.571 | 0.27 |
| 4900.0 | 28.466 | 8.676 | 0.27 |
| 5000.0 | 28.809 | 8.781 | 0.27 |
| 6000.0 | 32.121 | 9.79 | 0.24 |
| 8000.0 | 38.244 | 11.656 | 0.2 |
| 8800.0 | 40.551 | 12.359 | 0.19 |
| 10000.0 | 43.894 | 13.378 | 0.18 |
| 12000.0 | 49.209 | 14.998 | 0.16 |
| | | | |

Material Specifications

Dielectric Material

Jacket Material

Foam PE

ΡE

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35422-23

| Inner Conductor Material | Copper-clad aluminum wire |
|---------------------------|---------------------------|
| Outer Conductor Material | Corrugated copper |
| Mechanical Specifications | |

| Minimum Bend Radius, multiple Bends | 95.25 mm 3.75 in |
|-------------------------------------|-------------------------|
| Minimum Bend Radius, single Bend | 40.64 mm 1.6 in |
| Number of Bends, minimum | 15 |
| Number of Bends, typical | 50 |
| Tensile Strength | 113 kg 249.122 lb |
| Bending Moment | 1.9 N-m 16.816 in lb |
| Flat Plate Crush Strength | 2 kg/mm 111.995 lb/in |

Environmental Specifications

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

Packaging and Weights

Cable weight

0.12 kg/m | 0.081 lb/ft

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



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L2TDM-PL



7-16 DIN Male Positive Lock for 3/8 in LDF2-50 cable

Product Classification

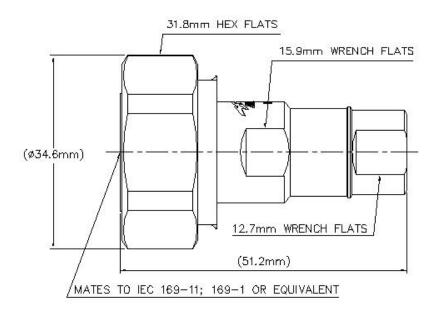
| Product Type | Wireless and radiating connector | |
|---------------------------------|----------------------------------|--|
| Product Brand | HELIAX® | |
| Product Series | LDF2-50 | |
| General Specifications | | |
| Body Style | Straight | |
| Cable Family | LDF2-50 | |
| Inner Contact Attachment Method | Captivated | |
| Inner Contact Plating | Silver | |
| Interface | 7-16 DIN Male | |
| Mounting Angle | Straight | |
| Outer Contact Attachment Method | Ring-flare | |
| Outer Contact Plating | Trimetal | |
| Pressurizable | No | |
| Dimensions | | |
| Height | 34.54 mm 1.36 in | |
| Width | 34.54 mm 1.36 in | |
| Length | 51.31 mm 2.02 in | |
| Diameter | 34.54 mm 1.36 in | |
| Nominal Size | 3/8 in | |
| | | |

Outline Drawing

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Electrical Specifications

| 3rd Order IMD at Frequency | -107 dBm @ 910 MHz |
|--------------------------------------|----------------------|
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| Insertion Loss Coefficient, typical | 0.05 |
| Average Power at Frequency | 0.7 kW @ 900 MHz |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 2500 V |
| Inner Contact Resistance, maximum | 0.4 mOhm |
| Insulation Resistance, minimum | 10000 MOhm |
| Operating Frequency Band | 0 – 10000 MHz |
| Outer Contact Resistance, maximum | 1.5 m0hm |
| Peak Power, maximum | 15.6 kW |
| RF Operating Voltage, maximum (vrms) | 894 V |
| Shielding Effectiveness | -110 dB |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 0–960 MHz | 1.027 | 37.51 |

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L2TDM-PL

| 960–2200 MHz | 1.058 | 31 |
|----------------|-------|-------|
| 2200–2700 MHz | 1.065 | 30.04 |
| 2700-4000 MHz | 1.083 | 27.99 |
| 4000–6000 MHz | 1.089 | 27.41 |
| 6000-8000 MHz | 1.089 | 27.41 |
| 8000–10000 MHz | 1.36 | 16.5 |

Mechanical Specifications

| 25 cycles |
|---------------------------|
| 671.68 N 151 lbf |
| 2.7 N-m 23.897 in lb |
| 35 N-m 309.776 in lb |
| 1000 N 224.81 lbf |
| MIL-C-39012C-3.25, 4.6.22 |
| 199.99 N 44.96 lbf |
| IEC 61169-1:15.2.4 |
| 500 cycles |
| IEC 61169-4:17 |
| IEC 60068-2-27 |
| |

Environmental Specifications

| Operating Temperature | -55 °C to +85 °C (-67 °F to +185 °F) |
|--|---------------------------------------|
| Storage Temperature | -65 °C to +125 °C (-85 °F to +257 °F) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °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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L2TDM-PL

Packaging and Weights

Weight, net

102.12 g | 0.225 lb

Regulatory Compliance/Certifications

Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



Agency

* Footnotes

Insertion Loss Coefficient, typical 0.05√⁻freq (GHz) (not applicable for elliptical waveguide) Immersion at specified depth for 24 hours

Immersion Depth

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Product Classification

Nominal Size

Product Type Wireless and radiating connector **Product Brand HELIAX® General Specifications Body Style** Straight LDF2-50 **Cable Family Inner Contact Attachment Method** Captivated **Inner Contact Plating** Silver Interface 4.1-9.5 DIN Male **Mounting Angle** Straight **Outer Contact Attachment Method** Ring-flare **Outer Contact Plating** Trimetal Dimensions 45.47 mm | 1.79 in Length 23.88 mm | 0.94 in Diameter

4.1/9.5 Mini-Din Male connector with LDF2-50 cable

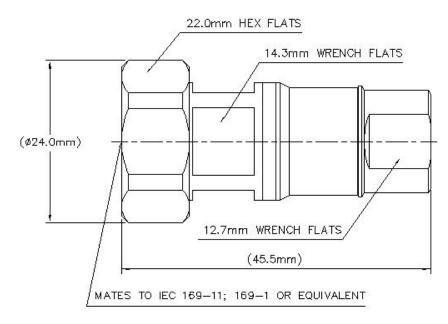
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3/8 in



Outline Drawing



Electrical Specifications

| 3rd Order IMD at Frequency | -112 dBm @ 910 MHz |
|-------------------------------------|----------------------|
| 3rd Order IMD Test Method | Two +43 dBm carriers |
| Insertion Loss Coefficient, typical | 0.05 |
| Average Power at Frequency | 0.7 kW @ 900 MHz |
| Cable Impedance | 50 ohm |
| Connector Impedance | 50 ohm |
| dc Test Voltage | 2500 V |
| Inner Contact Resistance, maximum | 0.8 mOhm |
| Insulation Resistance, minimum | 5000 MOhm |
| Operating Frequency Band | 0 – 6000 MHz |
| Outer Contact Resistance, maximum | 0.2 mOhm |
| Peak Power, maximum | 15.6 kW |
| Shielding Effectiveness | -110 dB |

VSWR/Return Loss

| Frequency Band | VSWR | Return Loss (dB) |
|----------------|-------|------------------|
| 0–2000 MHz | 1.065 | 30.04 |

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| 2000–3000 MHz | 1.083 | 27.99 |
|---------------|-------|-------|
| 3000–6000 MHz | 1.11 | 26.4 |

Mechanical Specifications

| Attachment Durability | 25 cycles |
|-------------------------------------|---------------------------|
| Connector Retention Tensile Force | 671.68 N 151 lbf |
| Connector Retention Torque | 5.42 N-m 47.971 in lb |
| Coupling Nut Proof Torque | 50 N-m 442.537 in lb |
| Coupling Nut Retention Force | 549.98 N 123.64 lbf |
| Coupling Nut Retention Force Method | MIL-C-39012C-3.25, 4.6.22 |
| Insertion Force | 80.07 N 18 lbf |
| Insertion Force Method | IEC 61169-1:15.2.4 |
| Interface Durability | 500 cycles |
| 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) |
| Attenuation, Ambient Temperature | 20 °C 68 °F |
| Average Power, Ambient Temperature | 40 °C 104 °F |
| Average Power, Inner Conductor Temperature | 100 °C 212 °F |
| Corrosion Test Method | IEC 60068-2-11 |
| Immersion Depth | 1 m |
| - | |
| Immersion Test Mating | Mated |
| Immersion Test Mating Immersion Test Method | Mated IEC 60529:2001, IP68 |
| 5 | |
| Immersion Test Method | IEC 60529:2001, IP68 |
| Immersion Test Method Moisture Resistance Test Method | IEC 60529:2001, IP68 IEC 60068-2-3 |

Packaging and Weights

Weight, net

51.5 g | 0.114 lb

Regulatory Compliance/Certifications

Agency

Classification

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ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system



* Footnotes

Insertion Loss Coefficient, typical 0.05⁷ freq (GHz) (not applicable for elliptical waveguide)

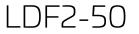
Immersion Depth

Immersion at specified depth for 24 hours

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LDF2-50, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 3/8 in, black PE jacket

| Product Classification | |
|---------------------------------|--|
| Product Type | Coaxial wireless cable |
| Product Brand | HELIAX® SureFlex® |
| Product Series | LDF2-50 |
| General Specifications | |
| Product Number | 520098202/00 SZ520098202/00 |
| Flexibility | Standard |
| Jacket Color | Black |
| Performance Note | Attenuation values typical, guaranteed within 5% |
| Dimensions | |
| Diameter Over Dielectric | 8.636 mm 0.34 in |
| Diameter Over Jacket | 11.176 mm 0.44 in |
| Inner Conductor OD | 3.124 mm 0.123 in |
| Outer Conductor OD | 9.652 mm 0.38 in |
| Nominal Size | 3/8 in |
| Electrical Specifications | |
| Cable Impedance | 50 ohm ±1 ohm |
| Capacitance | 75.5 pF/m 23.012 pF/ft |
| dc Resistance, Inner Conductor | 3.478 ohms/km 1.06 ohms/kft |
| dc Resistance, Outer Conductor | 2.854 ohms/km 0.87 ohms/kft |
| dc Test Voltage | 2500 V |
| Inductance | 0.19 μH/m 0.058 μH/ft |
| Insulation Resistance | 100000 MOhms-km |
| Jacket Spark Test Voltage (rms) | 5000 V |
| Operating Frequency Band | 1 – 13000 MHz |
| Peak Power | 15.6 kW |
| Velocity | 85 % |

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LDF2-50

Attenuation

| Frequency (MHz) | Attenuation (dB/100 m) | Attenuation (dB/100 ft) | Average Power (kW) |
|-----------------|------------------------|-------------------------|--------------------|
| 1.0 | 0.332 | 0.101 | 15.6 |
| 1.5 | 0.407 | 0.124 | 15.6 |
| 2.0 | 0.471 | 0.143 | 15.6 |
| 10.0 | 1.059 | 0.323 | 7.28 |
| 20.0 | 1.503 | 0.458 | 5.13 |
| 30.0 | 1.847 | 0.563 | 4.17 |
| 50.0 | 2.397 | 0.73 | 3.22 |
| 85.0 | 3.146 | 0.959 | 2.45 |
| 88.0 | 3.203 | 0.976 | 2.41 |
| 100.0 | 3.421 | 1.043 | 2.25 |
| 108.0 | 3.559 | 1.085 | 2.17 |
| 150.0 | 4.219 | 1.286 | 1.83 |
| 174.0 | 4.558 | 1.389 | 1.69 |
| 200.0 | 4.901 | 1.494 | 1.57 |
| 204.0 | 4.952 | 1.509 | 1.56 |
| 300.0 | 6.062 | 1.847 | 1.27 |
| 400.0 | 7.057 | 2.151 | 1.09 |
| 450.0 | 7.513 | 2.29 | 1.03 |
| 460.0 | 7.601 | 2.317 | 1.01 |
| 500.0 | 7.947 | 2.422 | 0.97 |
| 512.0 | 8.048 | 2.453 | 0.96 |
| 600.0 | 8.761 | 2.67 | 0.88 |
| 700.0 | 9.519 | 2.901 | 0.81 |
| 800.0 | 10.232 | 3.119 | 0.75 |
| 824.0 | 10.398 | 3.169 | 0.74 |
| 894.0 | 10.869 | 3.313 | 0.71 |
| 960.0 | 11.299 | 3.444 | 0.68 |
| 1000.0 | 11.554 | 3.521 | 0.67 |
| 1218.0 | 12.874 | 3.924 | 0.6 |
| 1250.0 | 13.059 | 3.98 | 0.59 |
| 1500.0 | 14.446 | 4.403 | 0.53 |
| 1700.0 | 15.49 | 4.721 | 0.5 |

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LDF2-50

| 1794.0 | 15.964 | 4.866 | 0.48 |
|---------|--------|--------|------|
| 1800.0 | 15.994 | 4.875 | 0.48 |
| 2000.0 | 16.97 | 5.172 | 0.45 |
| 2100.0 | 17.443 | 5.316 | 0.44 |
| 2200.0 | 17.908 | 5.458 | 0.43 |
| 2300.0 | 18.365 | 5.597 | 0.42 |
| 2500.0 | 19.257 | 5.869 | 0.4 |
| 2700.0 | 20.122 | 6.133 | 0.38 |
| 3000.0 | 21.376 | 6.515 | 0.36 |
| 3400.0 | 22.978 | 7.003 | 0.34 |
| 3600.0 | 23.754 | 7.24 | 0.32 |
| 3700.0 | 24.136 | 7.356 | 0.32 |
| 3800.0 | 24.514 | 7.471 | 0.31 |
| 3900.0 | 24.888 | 7.586 | 0.31 |
| 4000.0 | 25.26 | 7.699 | 0.31 |
| 4100.0 | 25.627 | 7.811 | 0.3 |
| 4200.0 | 25.992 | 7.922 | 0.3 |
| 4300.0 | 26.354 | 8.032 | 0.29 |
| 4400.0 | 26.713 | 8.142 | 0.29 |
| 4500.0 | 27.069 | 8.25 | 0.28 |
| 4600.0 | 27.422 | 8.358 | 0.28 |
| 4700.0 | 27.773 | 8.465 | 0.28 |
| 4800.0 | 28.12 | 8.571 | 0.27 |
| 4900.0 | 28.466 | 8.676 | 0.27 |
| 5000.0 | 28.809 | 8.781 | 0.27 |
| 6000.0 | 32.121 | 9.79 | 0.24 |
| 8000.0 | 38.244 | 11.656 | 0.2 |
| 8800.0 | 40.551 | 12.359 | 0.19 |
| 10000.0 | 43.894 | 13.378 | 0.18 |
| 12000.0 | 49.209 | 14.998 | 0.16 |
| | | | |

Material Specifications

| Dielectric Material | Foam PE |
|--------------------------|---------------------------|
| Jacket Material | PE |
| Inner Conductor Material | Copper-clad aluminum wire |

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LDF2-50

| Outer Conductor Material Corrugated copper | | |
|--|-------------------------|--|
| Mechanical Specifications | | |
| Minimum Bend Radius, multiple Bends | 95.25 mm 3.75 in | |
| Minimum Bend Radius, single Bend | 40.64 mm 1.6 in | |
| Number of Bends, minimum | 15 | |
| Number of Bends, typical | 50 | |
| Tensile Strength | 113 kg 249.122 lb | |
| Bending Moment | 1.9 N-m 16.816 in lb | |
| Flat Plate Crush Strength | 2 kg/mm 111.995 lb/in | |

Environmental Specifications

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

Packaging and Weights

9001:2015

Cable weight

0.12 kg/m | 0.081 lb/ft

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| 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.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |
| | |

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