

N-048-DS-6F-FMU

Fiber indoor cable, OptiSPEED® Low Smoke Zero Halogen Riser Distribution, 48 fiber multi-unit with 12 fiber subunits, Singlemode G.652.D and G.657.A1, Feet jacket marking, Cca flame rating

Product Classification

| | |
|-----------------------|---|
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | N-DS |

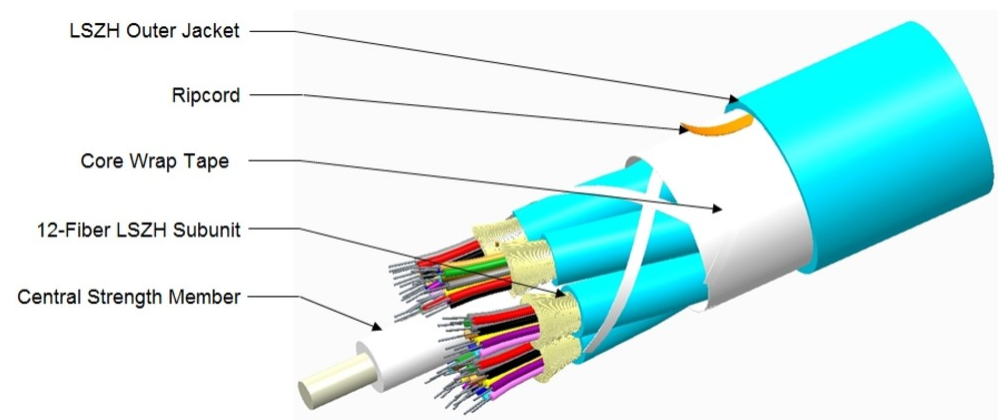
General Specifications

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|------------------------------|--------------|
| Cable Type | Distribution |
| Construction Type | Non-armored |
| Subunit Type | Gel-free |
| Jacket Marking | Feet |
| Subunit, quantity | 4 |
| Fibers per Subunit, quantity | 12 |
| Total Fiber Count | 48 |

Dimensions

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|------------------------------|---------------------|
| Buffer Tube/Subunit Diameter | 6.07 mm 0.239 in |
| Diameter Over Jacket | 16.19 mm 0.637 in |

Representative Image



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Mechanical Specifications

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|--|---------------------------------------|
| Minimum Bend Radius, loaded | 243 mm 9.567 in |
| Minimum Bend Radius, unloaded | 162 mm 6.378 in |
| Tensile Load, long term, maximum | 400 N 89.924 lbf |
| Tensile Load, short term, maximum | 1335 N 300.12 lbf |
| Compression | 10 N/mm 57.101 lb/in |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 |
| Flex | 100 cycles |
| Flex Test Method | FOTP-104 IEC 60794-1 E6 |
| Impact | 5.88 N-m 52.042 in lb |
| Impact Test Method | FOTP-25 IEC 60794-1 E4 |
| Strain | See long and short term tensile loads |
| Strain Test Method | FOTP-33 IEC 60794-1 E1 |
| Twist | 10 cycles |
| Twist Test Method | FOTP-85 IEC 60794-1 E7 |
| Vertical Rise, maximum | 183 m 600.394 ft |

Optical Specifications

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|-------------------|-----------------------------------|
| Fiber Type | OM1, OptiSPEED® OM1, OptiSPEED® |
|-------------------|-----------------------------------|

Environmental Specifications

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|---|---|
| Installation temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Operating Temperature | -20 °C to +70 °C (-4 °F to +158 °F) |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Cable Qualification Standards | ANSI/ICEA S-83-596 Telcordia GR-409 |
| EN50575 CPR Cable EuroClass Fire Performance | Cca |
| EN50575 CPR Cable EuroClass Smoke Rating | s1b |
| EN50575 CPR Cable EuroClass Droplets Rating | d1 |
| EN50575 CPR Cable EuroClass Acidity Rating | a1 |
| Environmental Space | Low Smoke Zero Halogen (LSZH) Riser |
| Flame Test Listing | NEC OFNR-ST1 (ETL) and c(ETL) |
| Flame Test Method | IEC 60332-3 IEC 60754-2 IEC 61034-2 UL 1666 UL 1685 |

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Environmental Test Specifications

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|-------------------------------|--------------------------------------|
| Heat Age | -20 °C to +85 °C (-4 °F to +185 °F) |
| Heat Age Test Method | IEC 60794-1 F9 |
| Low High Bend | -10 °C to +60 °C (+14 °F to +140 °F) |
| Low High Bend Test Method | FOTP-37 IEC 60794-1 E11 |
| Temperature Cycle | -20 °C to +70 °C (-4 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3 IEC 60794-1 F1 |

Packaging and Weights

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|--------------|----------------------------|
| Cable weight | 224 kg/km 150.521 lb/kft |
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Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |



Included Products

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| CS-6F-TB | – OptiSPEED® OM1 Multimode Fiber |
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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable