



Fiber Indoor/Outdoor cable, TeraSPEED® Low Smoke Zero Halogen Riser Distribution, 12 fiber single-unit, Gel-free, Singlemode + Multimode OM3, Feet jacket marking, Black jacket color, Dca flame rating

Product Classification

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

General Specifications

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|-----------------------|--------------|
| Cable Type | Distribution |
| Construction Type | Non-armored |
| Jacket Color | Black |
| Jacket Marking | Feet |
| Composite Fiber Count | 6 + 6 |
| Total Fiber Count | 12 |

Dimensions

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|----------------------|-------------------|
| Diameter Over Jacket | 7.2 mm 0.283 in |
|----------------------|-------------------|

Representative Image



Mechanical Specifications

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|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded | 108 mm 4.252 in |
| Minimum Bend Radius, unloaded | 72 mm 2.835 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 | 2.94 N-m 26.021 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 | 500 m 1,640.42 ft |

Optical Specifications

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| Fiber Type | Composite MM/SM G.652.D and G.657.A1, TeraSPEED® OM3, LazrSPEED® 300 |
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Environmental Specifications

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|--------------------------|--------------------------------------|
| Installation temperature | -30 °C to +60 °C (-22 °F to +140 °F) |
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| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Storage Temperature | -40 °C to +75 °C (-40 °F to +167 °F) |
| Cable Qualification Standards | ANSI/ICEA S-104-696 EN 187105 Telcordia GR-20 (water penetration) Telcordia GR-409 |
| EN50575 CPR Cable EuroClass Fire Performance | Dca |
| EN50575 CPR Cable EuroClass Smoke Rating | s1a |
| EN50575 CPR Cable EuroClass Droplets Rating | d1 |
| EN50575 CPR Cable EuroClass Acidity Rating | a2 |
| 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 |
| Jacket UV Resistance | UV stabilized |
| Water Penetration | 24 h |
| Water Penetration Test Method | FOTP-82 IEC 60794-1 F5 |

Environmental Test Specifications

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|-------------------------------|--------------------------------------|
| Cable Freeze Test Method | IEC 60794-1 F15 |
| Heat Age | -40 °C to +85 °C (-40 °F to +185 °F) |
| Heat Age Test Method | IEC 60794-1 F9 |
| Low High Bend | -40 °C to +70 °C (-40 °F to +158 °F) |
| Low High Bend Test Method | FOTP-37 IEC 60794-1 E11 |
| Temperature Cycle | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3 IEC 60794-1 F1 |

Packaging and Weights

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|--------------|--------------------------|
| Cable weight | 49 kg/km 32.926 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

- CS-5L-TB – LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber
- CS-8W-TB – TeraSPEED® Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable