760125518 | N-006-DZ-8W-FSUYL/B2



Fiber indoor cable, TeraSPEED® Riser/LSZH rated, Distribution, interlocking aluminum armored, Singlemode G.652.D and G.657.A1, 6 fiber single-unit, Feet jacket marking, Yellow jacket color, B2ca flame rating

Product Classification

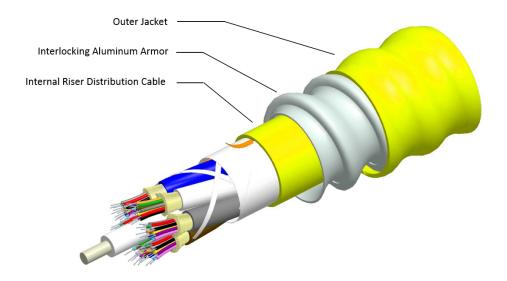
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
|------------------------|--|
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | N-DZ |
| General Specifications | |
| Armor Type | Interlocking aluminum |
| Cable Type | Distribution |
| Construction Type | Armored |
| Subunit Type | Gel-free |
| Jacket Color | Yellow |
| Jacket Marking | Feet |
| Total Fiber Count | 6 |
| Dimensions | |
| Diameter Over Armor | 10.8 mm 0.425 in |
| Diameter Over Jacket | 12.8 mm 0.504 in |
| | |

Representative Image

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Mechanical Specifications

| Minimum Bend Radius, loaded | 192 mm 7.559 in | |
|-----------------------------------|---------------------------------------|--|
| Minimum Bend Radius, unloaded | 128 mm 5.039 in | |
| Tensile Load, long term, maximum | 200 N 44.962 lbf | |
| Tensile Load, short term, maximum | 667 N 149.948 lbf | |
| Compression | 85 N/mm 485.363 lb/in | |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 | |
| Flex | 25 cycles | |
| Flex Test Method | FOTP-104 IEC 60794-1 E6 | |
| Impact | 35 N-m 309.776 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 | 146 m 479.003 ft | |
| Optical Spacifications | | |

Optical Specifications

Fiber Type

G.652.D and G.657.A1, TeraSPEED®

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Environmental Specifications

| 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 | B2ca |
| EN50575 CPR Cable EuroClass Smoke Rating | s1a |
| EN50575 CPR Cable EuroClass Droplets Rating | d2 |
| EN50575 CPR Cable EuroClass Acidity Rating | al |
| Environmental Space | Low Smoke Zero Halogen (LSZH) Riser |
| Flame Test Listing | NEC OFCR-ST1 (ETL) and c(ETL) |
| Flame Test Method | IEC 60332-3 IEC 60754-2 IEC 61034-2 UL 1666 UL 1685 |

Environmental Test Specifications

| 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 MethodFOTP-3 IEC 60794-1 F1 | | |

Packaging and Weights

Cable weight

140 kg/km | 94.076 lb/kft

Regulatory Compliance/Certifications

Agency

CENELEC



Classification

EN 50575 compliant, Declaration of Performance (DoP) available Designed, manufactured and/or distributed under this quality management system

Included Products

CS-8W-TB - TeraSPEED® Singlemode Fiber

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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-8W-TB

TeraSPEED®

TeraSPEED® Singlemode Fiber

Product Classification

| Portfolio | CommScope® | |
|---|---|--|
| Product Type | Optical fiber | |
| General Specifications | | |
| Cladding Diameter | 125 µm | |
| Cladding Diameter Tolerance | ±0.7 μm | |
| Cladding Non-Circularity, maximum | 0.7 % | |
| Coating Diameter (Colored) | 249 µm | |
| Coating Diameter (Uncolored) | 242 µm | |
| Coating Diameter Tolerance (Colored) | ±13 μm | |
| Coating Diameter Tolerance (Uncolored) | ±5 μm | |
| Coating/Cladding Concentricity Error, maximum | 12 μm | |
| Core Diameter | 8.3 µm | |
| Core/Clad Offset, maximum | 0.5 µm | |
| Proof Test | 689.476 N/mm² 100000 psi | |
| Tight Buffer Diameter | 900 µm | |
| Tight Buffer Diameter Tolerance | ±40 μm | |
| Dimensions | | |
| Fiber Curl, minimum | 4 m 13.123 ft | |
| Mechanical Specifications | | |
| Macrobending, 20 mm Ø mandrel, 1 turn | 0.75 dB @ 1,550 nm 1.50 dB @ 1,625 nm | |
| Macrobending, 30 mm Ø mandrel, 10 turns | 0.25 dB @ 1,550 nm 1.00 dB @ 1,625 nm | |
| Macrobending, 60 mm Ø mandrel, 100 turns | 0.05 dB @ 1,550 nm 0.05 dB @ 1,625 nm | |
| Coating Strip Force, maximum | 8.9 N 2.001 lbf | |
| Coating Strip Force, minimum | 1.3 N 0.292 lbf | |
| Dynamic Fatigue Parameter, minimum | 20 | |

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CS-8W-TB

Optical Specifications

| Cabled Cutoff Wavelength, maximum | 1260 nm |
|---|--|
| Point Defects, maximum | 0.1 dB |
| Zero Dispersion Slope, maximum | 0.092 ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum | 1324 nm |
| Zero Dispersion Wavelength, minimum | 1300 nm |
| Optical Specifications, Wavelength Specific | |
| Attenuation, maximum | 0.50 dB/km @ 1,310 nm 0.50 dB/km @ 1,385 nm 0.50 dB/km @ 1,490 nm 0.50 dB/km @ 1,550 nm 0.50 dB/km @ 1,575 nm 0.70 dB/km @ 1,270 nm |
| Backscatter Coefficient | -79.6 dB @ 1,310 nm -82.1 dB @ 1,550 nm |
| Dispersion, maximum | 18 ps(nm-km) at 1550 nm 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| Index of Refraction | 1.467 @ 1,310 nm 1.467 @ 1,385 nm 1.468 @ 1,550 nm |
| Mode Field Diameter | 10.4 µm @ 1,550 nm 9.2 µm @ 1,310 nm 9.6 µm @ 1,385 nm |
| Mode Field Diameter Tolerance | ±0.4 μm @ 1310 nm ±0.5 μm @ 1550 nm ±0.6 μm @ 1385 nm |
| Polarization Mode Dispersion Link Design Value, maximum | 0.04 ps/sqrt(km) |
| Standards Compliance | ITU-T G.652.D ITU-T G.657.A1 TIA-492CAAA (OS1) |
| | |

Environmental Specifications

| Heat Aging, maximum | 0.05 dB/km @ 85 °C |
|---------------------------------------|--------------------|
| Temperature Dependence, maximum | 0.05 dB/km |
| Temperature Humidity Cycling, maximum | 0.05 dB/km |
| Water Immersion, maximum | 0.05 dB/km @ 23 °C |

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

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



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CS-8W-TB

* Footnotes

Temperature Dependence, maximumTemperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)Temperature Humidity Cycling, maximumTemperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)up to 95% relative humidity

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