760127829 | P-036-DZ-8W-FMUYL



Fiber indoor cable, TeraSPEED® Plenum Distribution, interlocking aluminum armored with plenum jacket, Singlemode G.652.D and G.657. A1, 36 fiber multi-unit with 12 fiber subunits, Yellow jacket color, Feet cable marking

Product Classification

| Regional Availability | Asia Australia/New Zealand Latin America Middle East /Africa North America |
|------------------------------|---|
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | P-DZ |
| General Specifications | |
| Armor Type | Interlocking aluminum |
| Cable Type | Distribution |
| Construction Type | Armored |
| Subunit Type | Gel-free |
| Jacket Color | Yellow |
| Jacket Marking | Feet |
| Subunit, quantity | 3 |
| Fibers per Subunit, quantity | 12 |
| Total Fiber Count | 36 |
| Dimensions | |
| Buffer Tube/Subunit Diameter | 5.77 mm 0.227 in |
| Diameter Over Armor | 19.69 mm 0.775 in |
| Diameter Over Jacket | 21.7 mm 0.854 in |
| | |

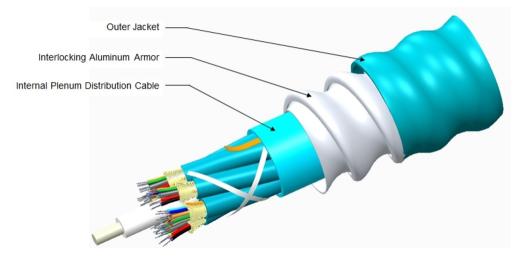
Representative Image

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Mechanical Specifications

| Minimum Bend Radius, loaded | 326 mm 12.835 in | |
|-----------------------------------|---------------------------------------|--|
| Minimum Bend Radius, unloaded | 217 mm 8.543 in | |
| Tensile Load, long term, maximum | 400 N 89.924 lbf | |
| Tensile Load, short term, maximum | 1335 N 300.12 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 | 97 m 318.241 ft | |
| Optical Specifications | | |

Fiber Type

G.652.D and G.657.A1, TeraSPEED®

Environmental Specifications

Installation temperature

0 °C to +70 °C (+32 °F to +158 °F)

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| 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 | |
| Environmental Space | Plenum | |
| Flame Test Listing | NEC OFCP (ETL) and c(ETL) | |
| Flame Test Method | NFPA 130 NFPA 262 | |

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 | -20 °C to +70 °C (-4 °F to +158 °F) | |
| Low High Bend Test Method | Method FOTP-37 I 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

420 kg/km | 282.227 lb/kft

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 |



Included Products

CS-8W-TB - TeraSPEED® Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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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 Tensile Stress | 100,000 psi (0.69 GPa) | |
| 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 | |

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CS-8W-TB

| Dynamic Fatigue Parameter, minimum | 20 |
|---|--|
| 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-492CAAB (OS1a) |

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

Classification

ISO 9001:2015

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

* Footnotes

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COMMSCOPE®

CS-8W-TB

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

up to 95% relative humidity

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