

Fiber Indoor/Outdoor cable, Single Jacket Gel-Filled All-Dielectric Riser Rated Central Tube, 24 fibers, Singlemode G.657.A2/B2, Feet jacket marking, Black jacket color

Product Classification

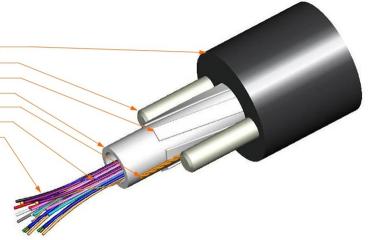
| Regional Availability | Asia Australia/New Zealand Latin America Middle East /Africa North America |
|------------------------------|---|
| Portfolio | CommScope® |
| Product Type | Fiber indoor/outdoor cable |
| Product Series | R-CN |
| General Specifications | |
| Cable Type | Central loose tube |
| Construction Type | Non-armored |
| Subunit Type | Gel-filled |
| Jacket Color | Black |
| Jacket Marking | Feet |
| Subunit, quantity | 2 |
| Fibers per Subunit, quantity | 12 |
| Total Fiber Count | 24 |
| Dimensions | |
| Buffer Tube/Subunit Diameter | 4 mm 0.157 in |
| Diameter Over Jacket | 10.28 mm 0.405 in |
| | |

Representative Image

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Riser-Rated Outer Jacket Rigid RSM (2)-Flexible Strength Elements-4.0mm Gel-Filled Buffer Tube Ripcord for Jacket Access (2) Fiber Binder Threads-250 micron Fibers -



Mechanical Specifications

| Minimum Bend Radius, loaded | 154 mm 6.063 in |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded | 103 mm 4.055 in |
| Tensile Load, long term, maximum | 800 N 179.847 lbf |
| Tensile Load, short term, maximum | 2700 N 606.984 lbf |
| Compression | 22 N/mm 125.623 lb/in |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 |
| Flex | 25 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 | 602 m 1,975.066 ft |
| Optical Specifications | |
| Fiber Type | G.657.A2/B2 G.657.A2/B2 |

Environmental Specifications

Installation temperature

-10 °C to +60 °C (+14 °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-409 |
| Environmental Space | Riser |
| Flame Test Listing | NEC OFNR (ETL) and c(ETL) |
| Flame Test Method | UL 1666 |
| Jacket UV Resistance | UV stabilized |
| Water Penetration | 24 h |
| Water Penetration Test Method | FOTP-82 IEC 60794-1 F5 |

Environmental Test Specifications

| Cable Freeze | -2 °C 28.4 °F |
|-------------------------------|--------------------------------------|
| Cable Freeze Test Method | FOTP-98 IEC 60794-1 F15 |
| Drip | 70 °C 158 °F |
| Drip Test Method | FOTP-81 IEC 60794-1 E14 |
| Heat Age | -40 °C to +85 °C (-40 °F to +185 °F) |
| Heat Age Test Method | IEC 60794-1 F9 |
| Low High Bend | -30 °C to +60 °C (-22 °F to +140 °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

Cable weight

136 kg/km | 91.388 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 |



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Included Products

CS-8G-LT

Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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CS-8G-LT

Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G. 657.A2, B2)

Product Classification

| Portfolio | CommScope® |
|---|---|
| Product Type | Optical fiber |
| Conoral Specifications | |
| 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/Clad Offset, maximum | 0.5 µm |
| Proof Tensile Stress | 100,000 psi (0.69 GPa) |
| Dimensions | |
| Fiber Curl, minimum | 4 m 13.123 ft |
| Mechanical Specifications | |
| Macrobending, 15 mm Ø mandrel, 1 turn | 0.50 dB @ 1,550 nm 1.00 dB @ 1,625 nm |
| Macrobending, 20 mm Ø mandrel, 1 turn | 0.10 dB @ 1,550 nm 0.20 dB @ 1,625 nm |
| Macrobending, 30 mm Ø mandrel, 10 turns | 0.03 dB @ 1,550 nm 0.10 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 |
| Optical Specifications | |
| Cabled Cutoff Wavelength, maximum | 1260 nm |
| Point Defects, maximum | 0.1 dB |

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CS-8G-LT

| Zero Dispersion Slope, maximum | 0.092 ps/[km-nm-nm] |
|---|---|
| Zero Dispersion Wavelength, maximum | 1324 nm |
| Zero Dispersion Wavelength, minimum | 1302 nm |
| Optical Specifications, Wavelength Specific | |
| Attenuation, maximum | 0.25 dB/km @ 1,550 nm 0.33 dB/km @ 1,385 nm 0.36 dB/km @ 1,310 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 | 8.6 μm @ 1,310 nm 9.8 μm @ 1,550 nm |
| Mode Field Diameter Tolerance | ±0.4 μm @ 1310 nm ±0.5 μm @ 1550 nm |
| Polarization Mode Dispersion Link Design Value, maximum | 0.06 ps/sqrt(km) |
| Standards Compliance | ITU-T G.657.A2 ITU-T G.657.B2 |

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 |

* Footnotes

| Temperature Dependence, maximum | Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F) |
|---------------------------------------|---|
| 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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