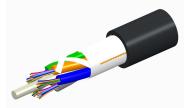
760081448 | D-012-LN-CM-F06NS/8W006 /6F006



Fiber OSP cable, TeraSPEED® Single Jacket All-Dielectric, Gel-Free, 12 fibers, Stranded Loose Tube, Composite OM1 and G.652.D and G.657.A1, Feet jacket marking, Black jacket color

Product Classification

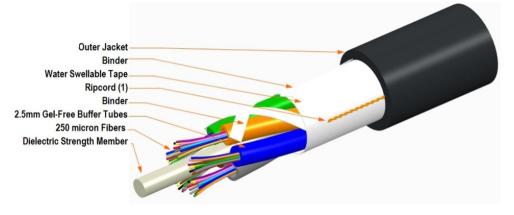
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
|------------------------------|--|
| Portfolio | CommScope® |
| Product Type | Fiber OSP cable |
| Product Series | D-LN |
| General Specifications | |
| Cable Type | Stranded loose tube |
| Construction Type | Non-armored |
| Subunit Type | Gel-free |
| Filler, quantity | 3 |
| Jacket Color | Black |
| Jacket Marking | Feet |
| Subunit, quantity | 2 |
| Fibers per Subunit, quantity | 6 |
| Composite Fiber Count | 6 + 6 |
| Total Fiber Count | 12 |
| Dimensions | |
| Buffer Tube/Subunit Diameter | 2.5 mm 0.098 in |
| Diameter Over Jacket | 10.2 mm 0.402 in |
| | |

Representative Image

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Material Specifications

| Jacket Material | PE |
|-----------------------------------|---------------------------------------|
| Mechanical Specifications | |
| Minimum Bend Radius, loaded | 153 mm 6.024 in |
| Minimum Bend Radius, unloaded | 102 mm 4.016 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 | 4.41 N-m 39.032 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 | 1307 m 4,288.058 ft |
| Optical Specifications | |

Fiber Type

Composite MM/SM | G.652.D and G.657.A1, TeraSPEED® | OM1, OptiSPEED® | OS2

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Environmental Specifications

| Installation temperature | -30 °C to +70 °C (-22 °F to +158 °F) |
|-------------------------------|--|
| 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-87-640 EN 187105 Telcordia GR-20 |
| Environmental Space | Aerial, lashed Buried |
| 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 |
| 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

63 kg/km | 42.334 lb/kft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

Included Products

- CS-6F-LT OptiSPEED® OM1 Multimode Fiber
- CS-8W-LT TeraSPEED® G652D/G657A1 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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OptiSPEED[®]

OptiSPEED® OM1 Multimode Fiber

Product Classification

| Portfolio | CommScope® |
|---|------------------------|
| Product Type | Optical fiber |
| General Specifications | |
| Cladding Diameter | 125 µm |
| Cladding Diameter Tolerance | ±1.0 μm |
| Cladding Non-Circularity, maximum | 1 % |
| Coating Diameter (Colored) | 254 µm |
| Coating Diameter (Uncolored) | 245 µm |
| Coating Diameter Tolerance (Colored) | ±7 μm |
| Coating Diameter Tolerance (Uncolored) | ±10 μm |
| Coating/Cladding Concentricity Error, maximum | 12 µm |
| Core Diameter | 62.5 µm |
| Core Diameter Tolerance | ±2.5 μm |
| Core/Clad Offset, maximum | 1 µm |
| Proof Tensile Stress | 100,000 psi (0.69 GPa) |
| Machanical Constitutions | |

Mechanical Specifications

| Macrobending, 75 mm Ø mandrel, 100 turns | 0.50 dB @ 1,300 nm 0.50 dB @ 850 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 | 18 |
| Optical Specifications | |
| Numerical Aperture | 0.275 |
| Numerical Aperture Tolerance | ±0.015 |
| Point Defects, maximum | 0.15 dB |

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CS-6F-LT

| Zero Dispersion Slope, maximum | 0.097 ps/[km-nm-nm] |
|-------------------------------------|---------------------|
| Zero Dispersion Wavelength, maximum | 1365 nm |
| Zero Dispersion Wavelength, minimum | 1320 nm |

Optical Specifications, Wavelength Specific

| 1 Gbps Ethernet Distance | 300 m @ 850 nm 550 m @ 1,300 nm |
|--------------------------|---|
| Attenuation, maximum | 1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 nm |
| Backscatter Coefficient | -68.0 dB @ 850 nm -75.7 dB @ 1,300 nm |
| Bandwidth, OFL, minimum | 220 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm |
| Index of Refraction | 1.491 @ 1,300 nm 1.496 @ 850 nm |
| Standards Compliance | TIA-492AAAA (OM1) |
| | |

Environmental Specifications

| Heat Aging, maximum | 0.20 dB/km @ 85 °C |
|---------------------------------------|--------------------|
| Temperature Dependence, maximum | 0.1 dB/km |
| Temperature Humidity Cycling, maximum | 0.2 dB/km |
| Water Immersion, maximum | 0.20 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 |



TeraSPEED®

TeraSPEED® G652D/G657A1 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) |
| 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-LT

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 | 0.22 dB/km @ 1,550 nm 0.25 dB/km @ 1,490 nm 0.25 dB/km @ 1,625 nm 0.36 dB/km @ 1,310 nm 0.36 dB/km @ 1,385 nm |
| Attenuation, typical | 0.19 dB/km @ 1,550 nm 0.33 dB/km @ 1,310 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 | IEC 60793-2-10, edition 6, model A1a.4 ITU-T G.652. D ITU-T G.657.A1 TIA-492CAAB (OS2) |

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

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COMMSCOPE[®]

CS-8W-LT

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 humidityup to 95% relative humidity

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