760252029 | 0-004-CA-8Z-M04BK/28G/093

turnet

Fiber OSP cable, PE, Gel-filled Central Tube, CST, 4 fiber, Singlemode G. 652.D and G.657.A1, Meters jacket marking, Black jacket color

Product Classification

| Regional Availability | Asia Australia/New Zealand |
|-----------------------------------|---------------------------------------|
| Portfolio | CommScope® |
| Product Type | Fiber OSP cable |
| Product Series | 0-LA |
| General Specifications | |
| Cable Type | Central loose tube |
| Construction Type | Armored |
| Subunit Type | Gel-filled |
| Jacket Color | Black |
| Jacket Marking | Meters |
| Fibers per Subunit, quantity | 4 |
| Total Fiber Count | 4 |
| Dimensions | |
| Buffer Tube/Subunit Diameter | 2.8 mm 0.11 in |
| Diameter Over Jacket | 9.1 mm 0.358 in |
| Mechanical Specifications | |
| Minimum Bend Radius, loaded | 182 mm 7.165 in |
| Minimum Bend Radius, unloaded | 91 mm 3.583 in |
| Tensile Load, long term, maximum | 890 N 200.08 lbf |
| Tensile Load, short term, maximum | 2700 N 606.984 lbf |
| Compression | 20 N/mm 114.203 lb/in |
| Compression Test Method | IEC 60794-1-2 E3 |
| Flex | 25 cycles |
| Strain | See long and short term tensile loads |

Page 1 of 5

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760252029 | 0-004-CA-8Z-M04BK/28G/093

| Strain Test Method | IEC 60794-1-2-E1 | |
|---|---|--|
| Optical Specifications | | |
| Fiber Type | G.652.D and G.657.A1 OS2 | |
| Optical Specifications, Wavelength Specific | | |
| Attenuation, maximum | 0.22 dB/km @ 1,550 nm 0.38 dB/km @ 1,310 nm | |
| | | |
| Environmental Specifications | | |
| Installation temperature | -10 °C to +60 °C (+14 °F to +140 °F) | |
| Operating Temperature | -40 °C to +70 °C (-40 °F to +158 °F) | |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) | |
| Environmental Space | Buried Ducted Outdoor | |
| Water Penetration | 24 h | |
| Water Penetration Test Method | IEC 60794-1 F5B | |
| Environmental Test Specifications | | |
| Temperature Cycle | -40 °C to +70 °C (-40 °F to +158 °F) | |
| Temperature Cycle Test Method | IEC 60794-1-2 F1 | |

Packaging and Weights

Cable weight

92 kg/km | 61.821 lb/kft

Regulatory Compliance/Certifications

| Agency | Classification |
|------------|---|
| CHINA-ROHS | Below maximum concentration value |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |
| | |



Included Products

CS-8Z-LT

Low Water Peak, Dispersion-Unshifted Singlemode Fiber

Page 2 of 5

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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 3 of 5

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Low Water Peak, Dispersion-Unshifted 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** 1% **Coating Diameter (Colored)** 250 µm **Coating Diameter (Uncolored)** 245 µm **Coating Diameter Tolerance (Colored)** ±15 µm **Coating Diameter Tolerance (Uncolored)** ±10 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 4 m | 13.123 ft Fiber Curl, minimum Mechanical Specifications Macrobending, 32 mm Ø mandrel, 1 turn 0.50 dB @ 1,550 nm Macrobending, 50 mm Ø mandrel, 100 turns 0.05 dB @ 1,550 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** 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

Page 4 of 5

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CS-8Z-LT

1300 nm Zero Dispersion Wavelength, minimum Optical Specifications, Wavelength Specific Attenuation, maximum 0.25 dB/km @ 1,550 nm | 0.35 dB/km @ 1,310 nm | 0.35 dB/km @ 1,385 nm Index of Refraction 1.467 @ 1,310 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 0.08 ps/sqrt(km) **Standards Compliance** 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

| 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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