760249707 | 0-006-CA-5X-M06BK/28G/093



Fiber OSP cable, PE, Gel-filled Central Tube, CST, 6 fiber, Multimode OM4, Meters jacket marking, Black jacket color

Product Classification

| Regional Availability | Asia Australia/New Zealand |
|-----------------------------------|---------------------------------------|
| Portfolio | CommScope® |
| Product Type | Fiber OSP cable |
| Product Series | 0-CA |
| General Specifications | |
| Cable Type | Central loose tube |
| Construction Type | Armored |
| Subunit Type | Gel-filled |
| Jacket Color | Black |
| Jacket Marking | Feet |
| Fibers per Subunit, quantity | 6 |
| Total Fiber Count | 6 |
| 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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760249707 | 0-006-CA-5X-M06BK/28G/093

| Strain Test Method | IEC 60794-1-2-E1 | |
|---|---|--|
| Optical Specifications | | |
| Fiber Type | OM4 | |
| Optical Specifications, Wavelength Specific | | |
| Attenuation, maximum | 1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 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 | | |

| 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-5X-LT-3.0/1.0/093 - OM4 Bend-Insensitive Multimode 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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CS-5X-LT-3.0/1.0/093

OM4 Bend-Insensitive Multimode Fiber

Product Classification

| Portfolio | CommScope® |
|---|------------------------|
| Product Type | Optical fiber |
| General Specifications | |
| Cladding Diameter | 125 µm |
| Cladding Diameter Tolerance | ±5 μm |
| Cladding Non-Circularity, maximum | 1 % |
| Coating Diameter (Colored) | 255 µm |
| Coating Diameter (Uncolored) | 245 µm |
| Coating Diameter Tolerance (Colored) | ±10 μm |
| Coating Diameter Tolerance (Uncolored) | ±10 μm |
| Coating/Cladding Concentricity Error, maximum | 12 µm |
| Core Diameter | 50 µm |
| Core Diameter Tolerance | ±2.5 μm |
| Core/Clad Offset, maximum | 1.5 µm |
| Proof Tensile Stress | 100,000 psi (0.69 GPa) |

Mechanical Specifications

| Macrobending, 15 mm Ø mandrel, 2 turns | 0.20 dB @ 850 nm 0.50 dB @ 1,300 nm |
|--|---------------------------------------|
| Macrobending, 30 mm Ø mandrel, 2 turns | 0.10 dB @ 850 nm 0.30 dB @ 1,300 nm |
| 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 | 0.2 |
| Numerical Aperture Tolerance | ±0.015 |
| Point Defects, maximum | 0.15 dB |

Page 4 of 5

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CS-5X-LT-3.0/1.0/093

Optical Specifications, Wavelength Specific

| 1 Gbps Ethernet Distance | 1,110 m @ 850 nm 600 m @ 1,300 nm |
|------------------------------|---|
| 10 Gbps Ethernet Distance | 550 m @ 850 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, Laser, minimum | 4,700 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm |
| Bandwidth, OFL, minimum | 3,500 MHz-km @ 850 nm \mid 500 MHz-km @ 1,300 nm |
| Differential Mode Delay | 0.70 ps/m @ 850 nm 0.88 ps/m @ 1,300 nm |
| Differential Mode Delay Note | Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm |
| Index of Refraction | 1.479 @ 1,300 nm 1.483 @ 850 nm |
| Standards Compliance | IEC 60793-2-10, type A1a.3a IEC 60793-2-10, type A1a.3b TIA- 492AAAD (OM4) |

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 |

* 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 |

Page 5 of 5

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