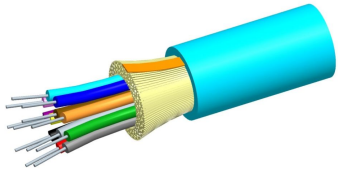


Fiber indoor cable, Plenum Distribution, 4 fiber single-unit, Multimode OM5, Meters jacket marking, Lime green jacket color



Product Classification

| | |
|------------------------------|------------------------------|
| Regional Availability | Asia Australia/New Zealand |
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | P-DS |

General Specifications

| | |
|--------------------------|--------------|
| Cable Type | Distribution |
| Construction Type | Non-armored |
| Subunit Type | Gel-free |
| Jacket Color | Lime green |
| Jacket Marking | Meters |
| Total Fiber Count | 4 |

Dimensions

| | |
|-----------------------------|-----------------|
| Diameter Over Jacket | 4 mm 0.157 in |
|-----------------------------|-----------------|

Representative Image



Mechanical Specifications

| | |
|--|---------------------------------------|
| Minimum Bend Radius, loaded | 80 mm 3.15 in |
| Minimum Bend Radius, unloaded | 40 mm 1.575 in |
| Tensile Load, long term, maximum | 198 N 44.512 lbf |
| Tensile Load, short term, maximum | 660 N 148.374 lbf |
| Compression | 10 N/mm 57.101 lb/in |
| Compression Test Method | IEC 60794-1-21 E3 |
| Strain | See long and short term tensile loads |
| Strain Test Method | IEC 60794-1-21 E1 |

Optical Specifications

| | |
|-------------------|-----|
| Fiber Type | OM5 |
|-------------------|-----|

Optical Specifications, Wavelength Specific

| | |
|-----------------------------|---|
| Attenuation, maximum | 1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 nm |
|-----------------------------|---|

Environmental Specifications

| | |
|---------------------------------|--------------------------------------|
| Installation temperature | 0 °C to +60 °C (-32 °F to +140 °F) |
| Operating Temperature | 0 °C to +70 °C (+32 °F to +158 °F) |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Environmental Space | Plenum |
| Flame Test Listing | NEC OFNP (UL) and c(UL) |

Flame Test Method NFPA 262

Environmental Test Specifications

Temperature Cycle Test Method IEC 60794-1-22 F1

Packaging and Weights

Cable weight 15 kg/km | 10.08 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-5C-TB-3.0/1.0/093 – OM5 WideBand Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

CS-5C-TB-3.0/1.0/093

OM5 WideBand 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 | 0.7 % |
| Coating Diameter (Colored) | 250 µm |
| Coating Diameter (Uncolored) | 242 µm |
| Coating Diameter Tolerance (Colored) | ±7 µm |
| Coating Diameter Tolerance (Uncolored) | ±10 µm |
| Coating/Cladding Concentricity Error, maximum | 10 µm |
| Core Diameter | 50 µm |
| Core Diameter Tolerance | ±2.5 µm |
| Core/Clad Offset, maximum | 1 µm |
| Proof Test | 689.476 N/mm ² 100000 psi |
| Tight Buffer Diameter | 900 µm |
| Tight Buffer Diameter Tolerance | ±40 µm |

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 |
| Coating Strip Force, maximum | 4.5 N 1.012 lbf |
| Coating Strip Force, minimum | 0.9 N 0.202 lbf |
| Dynamic Fatigue Parameter, minimum | 18 |

Optical Specifications

| | |
|-------------------------------------|---------|
| Numerical Aperture | 0.2 |
| Numerical Aperture Tolerance | ±0.015 |
| Point Defects, maximum | 0.15 dB |

CS-5C-TB-3.0/1.0/093

Zero Dispersion Slope, maximum (OM5) $-412/(840(1-(\lambda_0/840)^4))$ ps/[km-nm-nm]

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 2.30 dB/km @ 953 nm 3.00 dB/km @ 850 nm |
| Bandwidth, Laser, minimum | 2,470 MHz-km @ 953 nm 4,700 MHz-km @ 850 nm |
| Bandwidth, OFL, minimum | 1,850 MHz-km @ 953 nm 3,500 MHz-km @ 850 nm |
| Index of Refraction | 1.477 @ 1,300 nm 1.482 @ 850 nm |
| Standards Compliance | ANSI/TIA-568.3-D wideband multimode fiber cable IEC 60793-2-10, edition 6, model A1a.4 ISO 11801-1 cabled optical fiber performance category OM5 TIA-492AAAE (OM5) |

Environmental Specifications

| | |
|--|--------------------|
| Heat Aging, maximum | 0.10 dB/km @ 85 °C |
| Temperature Dependence, maximum | 0.1 dB/km |
| Temperature Humidity Cycling, maximum | 0.1 dB/km |
| Water Immersion, maximum | 0.10 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 |