

48 Core OS2 Outdoor Mini Loose Tube - Double Jacket

Product Classification

Regional Availability	Asia Australia/New Zealand
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	O-LN

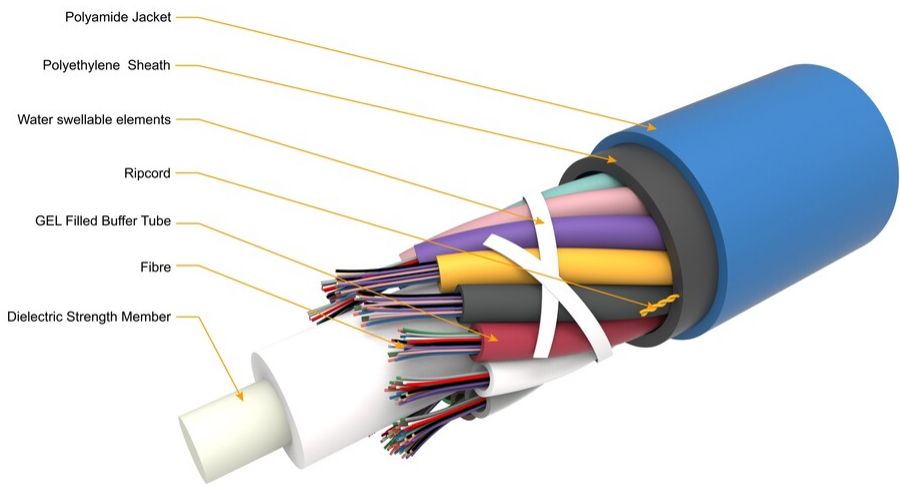
General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	2
Jacket Color	Blue
Jacket Marking	Meters
Subunit, quantity	4
Fibers per Subunit, quantity	12
Total Fiber Count	48

Dimensions

Buffer Tube/Subunit Diameter	1.55 mm 0.061 in
Diameter Over Jacket	6.3 mm 0.248 in

Representative Image



Material Specifications

Jacket Material Nylon | PE

Mechanical Specifications

Minimum Bend Radius, loaded 160 mm | 6.299 in
Minimum Bend Radius, unloaded 65 mm | 2.559 in
Tensile Load, short term, maximum 1000 N | 224.809 lbf
Compression 20 N/mm | 114.203 lb/in
Compression Test Method IEC 60794-1-21 E3
Flex 25 cycles
Impact 1 N-m | 8.851 in lb
Impact Test Method IEC 60794-1-21 E4
Strain See long and short term tensile loads
Strain Test Method IEC 60794-1-21 E1
Twist 10 cycles
Twist Test Method IEC 60794-1-21 E7

Optical Specifications

Fiber Type G.652.D

Optical Specifications, Wavelength Specific

64623447-48MLT | O-048-LD-8M-M12BL/15G/PE /PA

Attenuation, maximum 0.21 dB/km @ 1,550 nm | 0.35 dB/km @ 1,310 nm

Environmental Specifications

Installation temperature 0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature 0 °C to +50 °C (+32 °F to +122 °F)
Storage Temperature -20 °C to +70 °C (-4 °F to +158 °F)
Environmental Space Buried | Underground (duct)
Jacket UV Resistance UV stabilized
Water Penetration 24 h
Water Penetration Test Method IEC 60794-1 F5C

Environmental Test Specifications

Temperature Cycle -10 °C to +60 °C (+14 °F to +140 °F)
Temperature Cycle Test Method IEC 60794-1-22 F1

Packaging and Weights

Cable weight 33 kg/km | 22.175 lb/kft

Included Products

CS-8M-LT – Low Water Peak Dispersion-Unshifted OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

CS-8M-LT

Low Water Peak Dispersion-Unshifted OS2 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)	242 µm
Coating Diameter Tolerance (Colored)	±5 µm
Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum	0.5 µm
Proof Test	689.476 N/mm ² 100000 psi

Dimensions

Fiber Curl, minimum	4 m 13.123 ft
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Mechanical Specifications

Macrobending, 20 mm Ø mandrel, 1 turn	0.50 dB @ 1,550 nm 1.50 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.10 dB @ 1,550 nm 0.30 dB @ 1,625 nm
Macrobending, 32 mm Ø mandrel, 1 turn	0.03 dB @ 1,550 nm
Coating Strip Force, maximum	4.9 N 1.102 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
Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1324 nm
Zero Dispersion Wavelength, minimum	1300 nm

CS-8M-LT

Optical Specifications, Wavelength Specific

Attenuation, maximum	0.22 dB/km @ 1,550 nm 0.35 dB/km @ 1,310 nm 0.35 dB/km @ 1,385 nm
Dispersion, maximum	18 ps(nm-km) at 1550 nm
Index of Refraction	1.467 @ 1,310 nm 1.468 @ 1,550 nm 1.468 @ 1,625 nm
Mode Field Diameter	10.3 μ m @ 1,550 nm 9.1 μ m @ 1,310 nm
Mode Field Diameter Tolerance	\pm 0.4 μ m @ 1310 nm \pm 0.5 μ m @ 1550 nm
Polarization Mode Dispersion Link Design Value, maximum	0.06 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