# 64623447-24MLT | 0-024-LN-8M-M12BL



#### 24 Core SM CSM External Mini Loose Tube OD 6.3mm

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	4
Jacket Color	Blue
Jacket Marking	Meters
Subunit, quantity	2
Fibers per Subunit, quantity	12
Total Fiber Count	24
Dimensions	
Buffer Tube/Subunit Diameter	1.55 mm   0.061 in
Diameter Over Jacket	6.3 mm   0.248 in

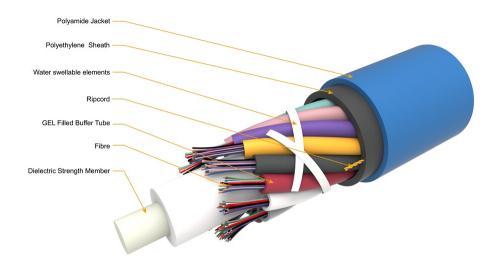
#### Representative Image

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### 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

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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

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### 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/mm²   100000 psi
Dimensions	
Fiber Curl, minimum	4 m   13.123 ft
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

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## 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 μm @ 1,550 nm \mid 9.1 μm @ 1,310 nm
Mode Field Diameter Tolerance	±0.4 μm @ 1310 nm   ±0.5 μm @ 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

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