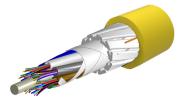
# 2-599605-4 | C-048-LN-8W-M12YL/28D/AY/D



Fiber Optic Cable, 48-fiber, OS2, yellow

#### OBSOLETE

This product was discontinued on: March 31, 2023

### Product Classification

| Regional Availability             | Asia   Australia/New Zealand   EMEA |
|-----------------------------------|-------------------------------------|
| Portfolio                         | CommScope®                          |
| Product Type                      | Fiber indoor/outdoor cable          |
| Product Series                    | C-LN                                |
| General Specifications            |                                     |
| Cable Type                        | Loose tube                          |
| Subunit Type                      | Gel-free                            |
| Filler, quantity                  | 4                                   |
| Jacket Color                      | Yellow                              |
| Jacket Marking                    | Meters                              |
| Fibers per Subunit, quantity      | 12                                  |
| Total Fiber Count                 | 48                                  |
| Dimensions                        |                                     |
| Cable Length                      | 2000 m   6,561.68 ft                |
| Diameter Over Jacket              | 11.5 mm   0.453 in                  |
| Mechanical Specifications         |                                     |
| Minimum Bend Radius, loaded       | 228.6 mm   9 in                     |
| Minimum Bend Radius, unloaded     | 170.2 mm   6.701 in                 |
| Tensile Load, long term, maximum  | 600 N   134.885 lbf                 |
| Tensile Load, short term, maximum | 996 N   223.91 lbf                  |

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# 2-599605-4 | C-048-LN-8W-M12YL/28D/AY/D

#### **Optical Specifications**

Fiber TypeG.652.D and G.657.A1, TeraSPEED® | OS2

#### Optical Specifications, Wavelength Specific

| Attenuation, maximum | 0.22 dB/km @ 1,550 nm   0.3 |
|----------------------|-----------------------------|
|                      | 1 310 nm                    |

**Standards Compliance** 

0.22 dB/km @ 1,550 nm | 0.31 dB/km @ 1,385 nm | 0.34 dB/km @ 1,310 nm TIA-492CAAB (OS2)

#### **Environmental Specifications**

| Installation temperature                     | -5 °C to +50 °C (+23 °F to +122 °F)      |
|--|--|
| Operating Temperature                        | -10 °C to +70 °C (+14 °F to +158 °F)     |
| Storage Temperature                          | -10 °C to +60 °C (+14 °F to +140 °F)     |
| EN50575 CPR Cable EuroClass Fire Performance | Eca                                      |
| Environmental Space                          | Universal Low Smoke Zero Halogen (ULSZH) |
|  |  |

## Packaging and Weights

| Cable | weight |
|-------|--------|
|-------|--------|

105 kg/km | 70.557 lb/kft

# Regulatory Compliance/Certifications

| Agency     | Classification  |
|------------|---|
| CENELEC    | EN 50575 compliant, Declaration of Performance (DoP) available        |
| 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-8W-250-EMEA – LightScope ZWP® Singlemode Fiber 250um

# \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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# CS-8W-250-EMEA | 250um

#### LightScope ZWP® 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)                    | 249 µm                                  |
| Coating Diameter (Uncolored)                  | 242 µm                                  |
| Coating Diameter Tolerance (Colored)          | ±13 μm                                  |
| Coating Diameter Tolerance (Uncolored)        | ±5 µm                                   |
| Coating/Cladding Concentricity Error, maximum | 12 µm                                   |
| Core/Clad Offset, maximum                     | 0.5 μm                                  |
| Proof Test                                    | 689.476 N/mm <sup>2</sup>   100000 psi  |
| Dimensions                                    |   |
| Fiber Curl, minimum                           | 4 m   13.123 ft                         |
| Mechanical Specifications                     |   |
| Macrobending, 20 mm Ø mandrel, 1 turn         | 0.75 dB @ 1,550 nm   1.50 dB @ 1,625 nm |
| Macrobending, 30 mm Ø mandrel, 10 turns       | 0.25 dB @ 1,550 nm   1.00 dB @ 1,625 nm |
| Macrobending, 60 mm Ø mandrel, 100 turns      | 0.05 dB @ 1,550 nm   0.05 dB @ 1,625 nm |
| Coating Strip Force, maximum                  | 8.9 N   2.001 lbf                       |
| Coating Strip Force, minimum                  | 1.3 N   0.292 lbf                       |
|   |   |

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**COMMSCOPE**°

# CS-8W-250-EMEA | 250um

| 20   |
|--|
|  |
| 1250 nm  |
| 0.05 dB  |
| 0.092 ps/[km-nm-nm]  |
| 1324 nm  |
| 1300 nm  |
|  |
| 0.21 dB/km @ 1,550 nm    0.24 dB/km @ 1625<br>nm    0.25 dB/km @ 1,490 nm    0.35 dB/km @ 1,310<br>nm    0.35 dB/km @ 1,385 nm |
| 18 ps(nm-km) at 1550 nm ( 2.2 ps(nm-km) at 1625<br>nm ( 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310<br>nm                    |
| 1.467 @ 1,310 nm   1.468 @ 1,550 nm  |
| 10.4 μm @ 1,550 nm   9.2 μm @ 1,310 nm   |
| ±0.4 μm @ 1310 nm   ±0.5 μm @ 1550 nm  |
| 0.06 ps/sqrt(km)   |
| ITU-T G.652.D   ITU-T G.657.A1   |
|  |

# **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 |

### \* 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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