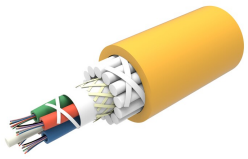
# 2-599175-4 | C-024-LA-8W-M12YL/28G/GRP/E



Fiber Indoor/Outdoor Cable, 24-fiber, Singlemode OS2, ULSZH, loose tube, gel-filled, Singlemode G.652.D and G.657.A1, Meters jacket marking, Yellow jacket color, provides rodent resistance, Eca Flame rating

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-LA |

## General Specifications

| | |
|---|---|
| **Armor Type** | Non-metallic rods |
| **Cable Type** | Loose tube |
| **Subunit Type** | Gel-filled |
| **Filler, quantity** | 2 |
| **Jacket Color** | Yellow |
| **Jacket Marking** | Meters |
| **Total Fiber Count** | 24 |

## Dimensions

| | |
|---|---|
| **Cable Length** | 2000 m \| 6,561.68 ft |
| **Buffer Tube/Subunit Diameter** | 2.8 mm \| 0.11 in |
| **Diameter Over Jacket** | 15 mm \| 0.591 in |

## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 465 mm \| 18.307 in |
| **Minimum Bend Radius, unloaded** | 350 mm \| 13.78 in |
| **Tensile Load, long term, maximum** | 6000 N \| 1,348.854 lbf |

| | |
|---|---|
| **Tensile Load, short term, maximum** | 9000 N \| 2,023.281 lbf |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | G.652.D and G.657.A1 |

## Optical Specifications, Wavelength Specific

| | |
|---|---|
| **Attenuation, maximum** | 0.35 dB/km @ 1,300 nm \| 0.35 dB/km @ 1,550 nm \| 0.45 dB/km @ 1,310 nm |
| **Standards Compliance** | IEC 60794-1 \| TIA-492CAAB (OS2) |

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | -5 °C to +50 °C (+23 °F to +122 °F) |
| **Operating Temperature** | -25 °C to +70 °C (-13 °F to +158 °F) |
| **Storage Temperature** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **EN50575 CPR Cable EuroClass Fire Performance** | Eca |
| **Environmental Space** | Universal Low Smoke Zero Halogen (ULSZH) |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 230 kg/km \| 154.553 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-8W-250-EMEA 250um – LightScope ZWP® Singlemode Fiber

## * Footnotes

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

# 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/mm² \| 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 |

| | |
|---|---|
| **Dynamic Fatigue Parameter, minimum** | 20 |

## Optical Specifications

| | |
|---|---|
| **Cabled Cutoff Wavelength, maximum** | 1250 nm |
| **Point Defects, maximum** | 0.05 dB |
| **Zero Dispersion Slope, maximum** | 0.092 ps/[km-nm-nm] |
| **Zero Dispersion Wavelength, maximum** | 1324 nm |
| **Zero Dispersion Wavelength, minimum** | 1300 nm |

## Optical Specifications, Wavelength Specific

| | |
|---|---|
| **Attenuation, maximum** | 0.21 dB/km @ 1,550 nm \| 0.24 dB/km @ 1625 nm \| 0.25 dB/km @ 1,490 nm \| 0.35 dB/km @ 1,310 nm \| 0.35 dB/km @ 1,385 nm |
| **Dispersion, maximum** | 18 ps(nm-km) at 1550 nm \| 2.2 ps(nm-km) at 1625 nm \| 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| **Index of Refraction** | 1.467 @ 1,310 nm \| 1.468 @ 1,550 nm |
| **Mode Field Diameter** | 10.4 µm @ 1,550 nm \| 9.2 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 |

## 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 |