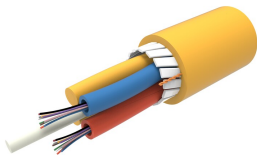


810009808/DB | L-024-LN-8F-M12YL/14D/GY/C



Fiber indoor cable, Single Jacket All-Dielectric, Gel-Free, Stranded Microsheath Tube, 24 fibers, Singlemode, G.657.A1, Meters jacket marking, Yellow jacket color, Cca Flame rating. Provides Rodent Resistance

Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   EMEA   Latin America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber indoor cable                                  |
| Product Series        | L-LN  |

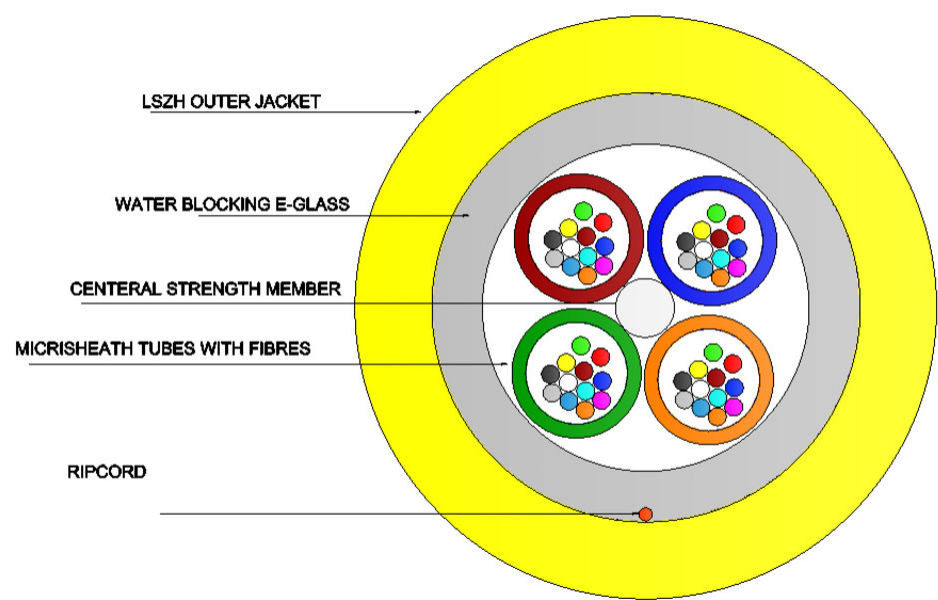
General Specifications

|                              |   |
|------------------------------|---|
| Cable Type                   | Stranded microsheath tube   |
| Construction Type            | Non-armored   |
| Subunit Type                 | Gel-free  |
| Filler, quantity             | 2   |
| Jacket Color                 | Yellow  |
| Jacket Marking               | Meters  |
| Jacket Marking Method        | Inkjet  |
| Jacket Marking Text          | COMMScope GB OPTICAL CABLE 810009808/DB 24x 9/125 G657A1<br>LSZH EN50575 CLASS C [SERIAL NUMBER] [METER MARK] |
| Subunit, quantity            | 2   |
| Fibers per Subunit, quantity | 12  |
| Total Fiber Count            | 24  |

Dimensions

|                              |                   |
|------------------------------|-------------------|
| Buffer Tube/Subunit Diameter | 1.4 mm   0.055 in |
| Diameter Over Jacket         | 6.6 mm   0.26 in  |

Representative Image



Material Specifications

Inner Jacket Material

Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 130 mm   5.118 in                     |
| Minimum Bend Radius, unloaded     | 90 mm   3.543 in                      |
| Tensile Load, long term, maximum  | 850 N   191.088 lbf                   |
| Tensile Load, short term, maximum | 1450 N   325.973 lbf                  |
| Compression                       | 10 N/mm   57.101 lb/in                |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Impact                            | 2 N-m   17.701 in lb                  |
| Impact Test Method                | FOTP-25   IEC 60794-1 E4              |
| Strain                            | See long and short term tensile loads |
| Strain Test Method                | FOTP-33   IEC 60794-1 E1              |
| Vertical Rise, maximum            | 1600 m   5,249.344 ft                 |

Optical Specifications

Fiber Type

G.657.A1, TeraSPEED®

Environmental Specifications

|  |                                      |
|--|--------------------------------------|
| Installation temperature                     | 0 °C to +50 °C (+32 °F to +122 °F)   |
| Operating Temperature                        | -10 °C to +60 °C (+14 °F to +140 °F) |
| Storage Temperature                          | -40 °C to +70 °C (-40 °F to +158 °F) |
| Cable Qualification Standards                | IEC 60794-1-2                        |
| EN50575 CPR Cable EuroClass Fire Performance | Cca                                  |
| EN50575 CPR Cable EuroClass Smoke Rating     | s1a                                  |
| EN50575 CPR Cable EuroClass Droplets Rating  | d0                                   |
| EN50575 CPR Cable EuroClass Acidity Rating   | a2                                   |
| Environmental Space                          | Low Smoke Zero Halogen (LSZH)        |

Environmental Test Specifications

|                               |                                      |
|-------------------------------|--------------------------------------|
| Cable Freeze                  | -2 °C   28.4 °F                      |
| Cable Freeze Test Method      | FOTP-98   IEC 60794-1 F15            |
| Temperature Cycle             | -10 °C to +60 °C (+14 °F to +140 °F) |
| Temperature Cycle Test Method | FOTP-3   IEC 60794-1 F1              |

Packaging and Weights

|              |                         |
|--------------|-------------------------|
| Cable weight | 51 kg/km   34.27 lb/kft |
|--------------|-------------------------|

Regulatory Compliance/Certifications

| Agency     | Classification                    |
|------------|-----------------------------------|
| CHINA-ROHS | Below maximum concentration value |
| ROHS       | Compliant                         |
| UK-ROHS    | Compliant                         |



Included Products

|          |  |
|----------|--|
| CS-8F-LT | – Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber |
|----------|--|

\* Footnotes

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

# CS-8F-LT

Low Macrobending, Zero Water Peak, Dispersion-Unshifted 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, 50 mm Ø mandrel, 100 turns | 0.03 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 | 1260 nm            |
| Point Defects, maximum            | 0.1 dB             |
| Zero Dispersion Slope, maximum    | 0.09 ps/[km-nm-nm] |

# CS-8F-LT

|   |   |
|---|---|
| Zero Dispersion Wavelength, maximum                     | 1324 nm   |
| Zero Dispersion Wavelength, minimum                     | 1300 nm   |
| Optical Specifications, Wavelength Specific             |   |
| Attenuation, maximum                                    | 0.25 dB/km @ 1,550 nm   0.27 dB/km @ 1,490 nm   0.27 dB/km @ 1,625 nm   0.33 dB/km @ 1,385 nm   0.36 dB/km @ 1,310 nm |
| Dispersion, maximum                                     | 18 ps(nm-km) at 1550 nm   3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm  |
| Index of Refraction                                     | 1.467 @ 1,310 nm   1.467 @ 1,385 nm   1.468 @ 1,550 nm  |
| Mode Field Diameter                                     | 8.6 μm @ 1,310 nm   9.8 μm @ 1,550 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.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 |