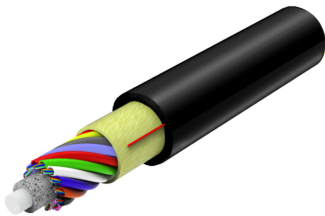


760249096 | C-024-LN-8F-M12BK/14D/AY/D

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Fiber Indoor/Outdoor Cable, Low Smoke Zero Halogen, 24 fiber, Microsheath, Singlemode, G.657.A1, Gel-free, Meters jacket marking, Black jacket color, Dca flame rating

Product Classification

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

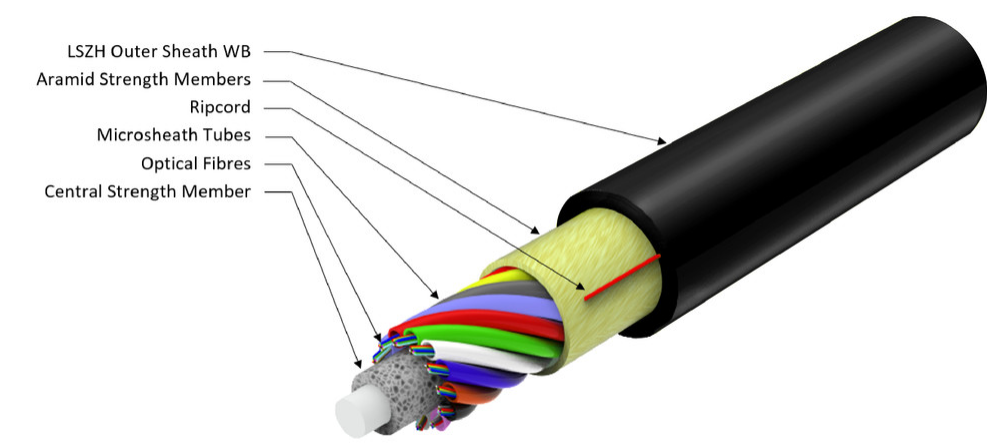
General Specifications

|                              |   |
|------------------------------|---|
| Cable Type                   | Stranded microsheath tube   |
| Subunit Type                 | Gel-free  |
| Filler, quantity             | 4   |
| Jacket Color                 | Black   |
| Jacket Marking               | Meters  |
| Jacket Marking Method        | Inkjet  |
| Jacket Marking Text          | COMMScope GB F.O. CABLE 760249096 24x9/125 ITU-T G.657A1 EN50575 CLASS D ULSZH (serial number) (metre mark) |
| Subunit, quantity            | 2   |
| Fibers per Subunit, quantity | 12  |
| Total Fiber Count            | 24  |

Dimensions

|                      |                      |
|----------------------|----------------------|
| Cable Length         | 2000 m   6,561.68 ft |
| Diameter Over Jacket | 6.1 mm   0.24 in     |

Representative Image



Mechanical Specifications

|                                   |                        |
|-----------------------------------|------------------------|
| Minimum Bend Radius, loaded       | 100 mm   3.937 in      |
| Minimum Bend Radius, unloaded     | 55 mm   2.165 in       |
| Tensile Load, long term, maximum  | 200 N   44.962 lbf     |
| Tensile Load, short term, maximum | 700 N   157.366 lbf    |
| Cable Crush Resistance, maximum   | 10 N/mm   57.101 lb/in |
| Compression Test Method           | IEC 60794-1-21 E3      |
| Impact                            | 2 N-m   17.701 in lb   |
| Impact Test Method                | IEC 60794-1-21 E4      |
| Strain Test Method                | IEC 60794-1-21 E1      |

Optical Specifications

|            |          |
|------------|----------|
| Fiber Type | G.657.A1 |
|------------|----------|

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   0.36 dB/km @ 1,310 nm |
| Standards Compliance | TIA-492CAAB (OS2)   |

Environmental Specifications

|  |                                      |
|--|--------------------------------------|
| Operating Temperature                        | -40 °C to +70 °C (-40 °F to +158 °F) |
| EN50575 CPR Cable EuroClass Fire Performance | Dca                                  |
| EN50575 CPR Cable EuroClass Smoke Rating     | s1a                                  |

# 760249096 | C-024-LN-8F-M12BK/14D/AY/D

|   |  |
|---|--|
| EN50575 CPR Cable EuroClass Droplets Rating | d2                                       |
| EN50575 CPR Cable EuroClass Acidity Rating  | a1                                       |
| Environmental Space                         | Universal Low Smoke Zero Halogen (ULSZH) |
| Water Penetration Test Method               | IEC 60794-1 F5                           |

## Environmental Test Specifications

|                               |                                      |
|-------------------------------|--------------------------------------|
| Temperature Cycle             | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | IEC 60794-1-22 F1                    |

## Packaging and Weights

|              |                          |
|--------------|--------------------------|
| Cable weight | 37 kg/km   24.863 lb/kft |
|--------------|--------------------------|

## 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 Tensile Stress                          | 100,000 psi (0.69 GPa) |

## 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 |