# 760249099 | C-096-LN-8F-M12BK/14D/AY/D

Fiber Indoor/Outdoor Cable, Low Smoke Zero Halogen, 96 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 |
| **Jacket Color** | Black |
| **Jacket Marking** | Meters |
| **Jacket Marking Method** | Inkjet |
| **Jacket Marking Text** | COMMSCOPE GB  F.O. CABLE 760249099 96x9/125 ITU-T G.657A1 EN50575 CLASS D ULSZH (serial number) (metre mark) |
| **Subunit, quantity** | 8 |
| **Fibers per Subunit, quantity** | 12 |
| **Total Fiber Count** | 96 |

## Dimensions

| | |
|---|---|
| **Cable Length** | 2000 m | 6,561.68 ft |
| **Diameter Over Jacket** | 6.8 mm | 0.268 in |

## Representative Image

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LSZH Outer Sheath
WB Aramid Strength Members
Ripcord
WB Microsheath Tubes
Optical Fibres
Central Strength Member
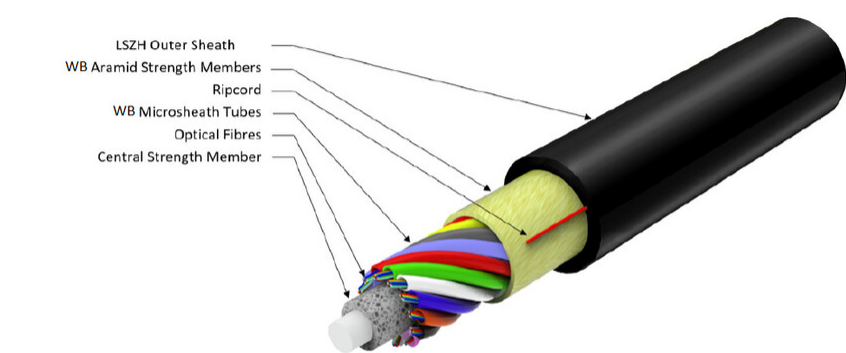
## Mechanical Specifications

| | |
|---|---|
| **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) |

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| | |
|---|---|
| **EN50575 CPR Cable EuroClass Fire Performance** | Dca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s1a |
| **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** | 40 kg/km | 26.879 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

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