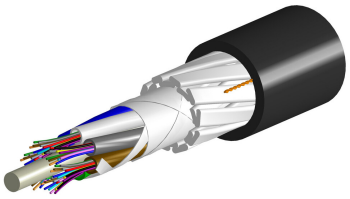
# 760243333 | C-096-LN-8W-M12BK/20G/HTS/D



Fiber indoor/outdoor cable, TeraSPEED® High Tensile Strength (LSZH), 96 fiber, Mini All-Dielectric Single Jacket, Singlemode G.652.D and G.657.A1, Gel-Filled, Stranded Loose Tube, Meters jacket marking, Dca flame rating. Provides Rodent Resistance

## 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 loose tube |
| **Construction Type** | Non-armored |
| **Subunit Type** | Gel-filled |
| **Jacket Color** | Black |
| **Jacket Marking** | Meters |
| **Jacket Marking Method** | Inkjet |
| **Jacket Marking Text** | COMMSCOPE GB OPTICAL CABLE 760243333 96X OS2 SM LSZH EN50575 CLASS D [SERIAL NUMBER] [METER MARK] |
| **Subunit, quantity** | 8 |
| **Fibers per Subunit, quantity** | 12 |
| **Total Fiber Count** | 96 |

## Dimensions

| | |
|---|---|
| **Buffer Tube/Subunit Diameter** | 2 mm \| 0.079 in |
| **Diameter Over Jacket** | 13.9 mm \| 0.547 in |

## Representative Image



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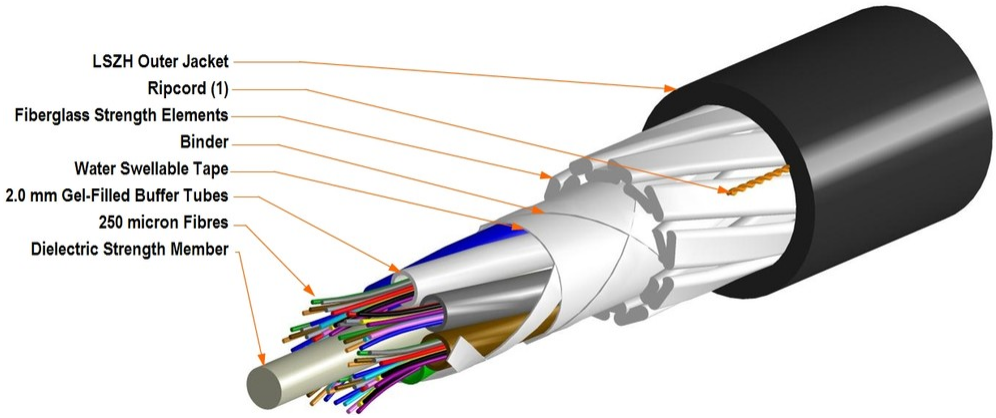


## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 205 mm \| 8.071 in |
| **Minimum Bend Radius, unloaded** | 137 mm \| 5.394 in |
| **Tensile Load, long term, maximum** | 1350 N \| 303.492 lbf |
| **Tensile Load, short term, maximum** | 4500 N \| 1,011.641 lbf |
| **Compression** | 22 N/mm \| 125.623 lb/in |
| **Compression Test Method** | IEC 60794-1 E3 |
| **Flex** | 25 cycles |
| **Flex Test Method** | IEC 60794-1 E6 |
| **Impact Test Method** | IEC 60794-1 E4 |
| **Strain** | See long and short term tensile loads |
| **Strain Test Method** | IEC 60794-1 E1 |
| **Twist** | 10 cycles |
| **Twist Test Method** | IEC 60794-1 E7 |
| **Vertical Rise, maximum** | 716 m \| 2,349.081 ft |

## Optical Specifications

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

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | -30 °C to +60 °C (-22 °F to +140 °F) |
| **Operating Temperature** | -40 °C to +70 °C (-40 °F to +158 °F) |
| **Storage Temperature** | -40 °C to +75 °C (-40 °F to +167 °F) |



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| | |
|---|---|
| **Cable Qualification Standards** | EN 187105 \| IEC 60794-1-2 |
| **EN50575 CPR Cable EuroClass Fire Performance** | Dca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s2 |
| **EN50575 CPR Cable EuroClass Droplets Rating** | d0 |
| **EN50575 CPR Cable EuroClass Acidity Rating** | a1 |
| **Environmental Space** | Aerial, lashed \| Buried \| Low Smoke Zero Halogen (LSZH) |
| **Flame Test Method** | IEC 60332-1-2 \| IEC 60754-2 \| IEC 61034-2 |
| **Jacket UV Resistance** | UV stabilized |
| **Water Penetration** | 24 h |
| **Water Penetration Test Method** | IEC 60794-1 F5 |

## Environmental Test Specifications

| | |
|---|---|
| **Cable Freeze** | -2 °C \| 28.4 °F |
| **Cable Freeze Test Method** | IEC 60794-1 F15 |
| **Heat Age** | -40 °C to +85 °C (-40 °F to +185 °F) |
| **Heat Age Test Method** | IEC 60794-1 F9 |
| **Low High Bend** | -30 °C to +60 °C (-22 °F to +140 °F) |
| **Low High Bend Test Method** | IEC 60794-1 E11 |
| **Temperature Cycle** | -40 °C to +70 °C (-40 °F to +158 °F) |
| **Temperature Cycle Test Method** | IEC 60794-1 F1 |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 200 kg/km \| 134.394 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 – LightScope® ZWP Singlemode Fiber



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8W-250um

## * Footnotes

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



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