# 810009664/DB  |  C-144-LA-8W-M12BK/20G/C

Fiber indoor/outdoor cable, LightSCOPE® Indoor/Outdoor, Single Jacket /Single Armor, Low Smoke Zero Halogen (LSZH), Singlemode G.652.D and G.657.A1, 144 fiber, Gel Filled , Stranded Loose Tube, Feet jacket marking, Black jacket color, Cca flame rating

- Corrugated steel tape armor is strong yet flexible, providing additional crush and rodent protection

## Product Classification

| | |
|---|---|
| **Regional Availability** | EMEA |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber indoor/outdoor cable |
| **Product Series** | C-LA |

## General Specifications

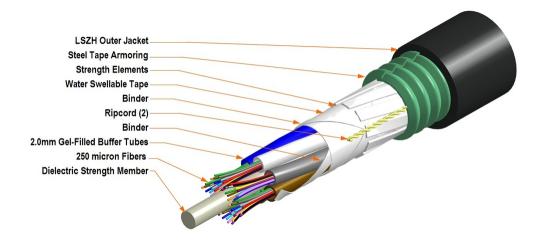| | |
|---|---|
| **Armor Type** | Corrugated steel |
| **Cable Type** | Stranded loose tube |
| **Construction Type** | Armored |
| **Subunit Type** | Gel-filled |
| **Jacket Color** | Black |
| **Jacket Marking** | Meters |
| **Jacket Marking Method** | Inkjet |
| **Jacket Marking Text** | COMMSCOPE GB OPTICAL CABLE OS2 SM 144 FIBER EN50575 CLASS C [SERIAL NUMBER] [MM/YY] [METRE MARK] |
| **Subunit, quantity** | 12 |
| **Fibers per Subunit, quantity** | 12 |
| **Total Fiber Count** | 144 |

## Dimensions

| | |
|---|---|
| **Buffer Tube/Subunit Diameter** | 2 mm  |  0.079 in |
| **Diameter Over Jacket** | 16.1 mm  |  0.634 in |

## Representative Image

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LSZH Outer Jacket
Steel Tape Armoring
Strength Elements
Water Swellable Tape
Binder
Ripcord (2)
Binder
2.0mm Gel-Filled Buffer Tubes
250 micron Fibers
Dielectric Strength Member

## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 200 mm  \|  7.874 in |
| **Minimum Bend Radius, unloaded** | 133 mm  \|  5.236 in |
| **Tensile Load, long term, maximum** | 800 N  \|  179.847 lbf |
| **Tensile Load, short term, maximum** | 2700 N  \|  606.984 lbf |
| **Compression** | 44 N/mm  \|  251.246 lb/in |
| **Compression Test Method** | IEC 60794-1 E3 |
| **Flex** | 25 cycles |
| **Flex Test Method** | IEC 60794-1 E6 |
| **Impact** | 10 N-m  \|  88.507 in lb |
| **Impact Test Method** | IEC 60794-1 E4 |
| **Strain** | See long and short term tensile loads |
| **Strain Test Method** | FOTP-33  \|  IEC 60794-1 E1 |
| **Twist** | 10 cycles |
| **Twist Test Method** | IEC 60794-1 E7 |
| **Vertical Rise, maximum** | 432 m  \|  1,417.323 ft |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | G.652.D and G.657.A1  \|  OS2 |

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | -30 °C to +60 °C (-22 °F to +140 °F) |

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| | |
|---|---|
| **Operating Temperature** | -40 °C to +70 °C (-40 °F to +158 °F) |
| **Storage Temperature** | -40 °C to +75 °C (-40 °F to +167 °F) |
| **Cable Qualification Standards** | EN 187105 | IEC 60794-1-2 |
| **EN50575 CPR Cable EuroClass Fire Performance** | Cca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s2 |
| **EN50575 CPR Cable EuroClass Droplets Rating** | d2 |
| **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** | 309.2 kg/km | 207.773 lb/kft |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CENELEC | EN 50575 compliant, Declaration of Performance (DoP) available |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

**CENELEC**

## Included Products

CS-8W-250-EMEA 8W-250um − LightScope® ZWP Singlemode Fiber

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## * Footnotes

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

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