



Fiber indoor/outdoor cable, LightScope ZWP® Outdoor Retractable Façade Distribution, 24 fiber, Singlemode G.657.A1, Gel-free, White jacket color

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber indoor/outdoor cable  |
| <b>Product Series</b>        | C-RD  |

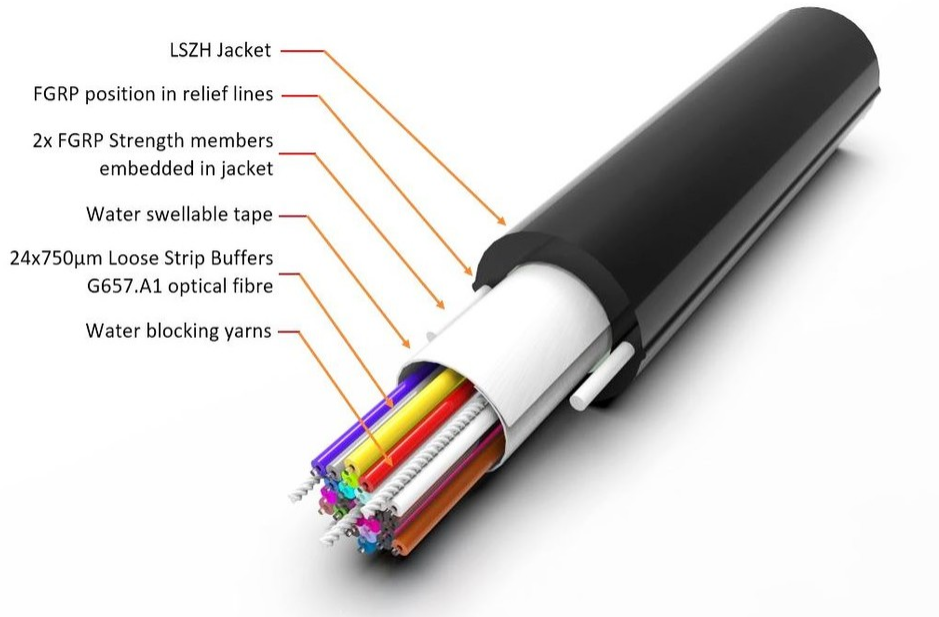
## General Specifications

|                                     |  |
|-------------------------------------|--|
| <b>Cable Type</b>                   | Distribution   Loose tube  |
| <b>Construction Type</b>            | Non-armored  |
| <b>Subunit Type</b>                 | Gel-free   |
| <b>Filler, quantity</b>             | 4  |
| <b>Jacket Color</b>                 | White  |
| <b>Jacket Marking</b>               | Meters   |
| <b>Jacket Marking Method</b>        | Inkjet   |
| <b>Jacket Marking Text</b>          | COMMSCOPE GB F.O. CABLE 810009758/DB 24x9 /125 G657A1 ULSZH (serial number) (metre mark) |
| <b>Subunit, quantity</b>            | 24   |
| <b>Fibers per Subunit, quantity</b> | 1  |
| <b>Total Fiber Count</b>            | 24   |

## Dimensions

|                                     |                      |
|-------------------------------------|----------------------|
| <b>Cable Length</b>                 | 1000 m   3,280.84 ft |
| <b>Buffer Tube/Subunit Diameter</b> | 0.75 mm   0.03 in    |
| <b>Diameter Over Jacket</b>         | 9.2 mm   0.362 in    |

## Representative Image



## Material Specifications

### Jacket Material

Low Smoke Zero Halogen (LSZH)

## Mechanical Specifications

### Minimum Bend Radius, loaded

50 mm | 1.969 in

### Minimum Bend Radius, unloaded

55 mm | 2.165 in

### Tensile Load, long term, maximum

100 N | 22.481 lbf

### Tensile Load, short term, maximum

250 N | 56.202 lbf

### Compression

5 N/mm | 28.551 lb/in

### Compression Test Method

IEC 60794-1-21 E3

### Flex

25 cycles

### Flex Test Method

IEC 60794-1 E6

### Impact

5 N-m | 44.254 in lb

### Impact Test Method

IEC 60794-1-21 E4

### Strain

See long and short term tensile loads

### Strain Test Method

IEC 60794-1-21 E1

### Twist

10 cycles

# 810009758/DB | C-024-RD-8F-M24WH-08D/D

|                               |                      |
|-------------------------------|----------------------|
| <b>Twist Test Method</b>      | IEC 60794-1-21 E7    |
| <b>Vertical Rise, maximum</b> | 492 m   1,614.173 ft |

## Optical Specifications

|                   |          |
|-------------------|----------|
| <b>Fiber Type</b> | G.657.A1 |
|-------------------|----------|

## Environmental Specifications

|   |   |
|---|---|
| <b>Installation temperature</b>                     | -20 °C to +70 °C (-4 °F to +158 °F)       |
| <b>Operating Temperature</b>                        | -40 °C to +70 °C (-40 °F to +158 °F)      |
| <b>Storage Temperature</b>                          | -40 °C to +70 °C (-40 °F to +158 °F)      |
| <b>Cable Qualification Standards</b>                | IEC 60794-1-2                             |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | Dca                                       |
| <b>EN50575 CPR Cable EuroClass Smoke Rating</b>     | s2  |
| <b>EN50575 CPR Cable EuroClass Droplets Rating</b>  | d2  |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a2  |
| <b>Environmental Space</b>                          | Facade   Outdoor                          |
| <b>Flame Test Method</b>                            | IEC 60332-1-2   IEC 60754-2   IEC 61034-2 |
| <b>Jacket UV Resistance</b>                         | UV stabilized                             |
| <b>Water Penetration</b>                            | 24 h                                      |
| <b>Water Penetration Test Method</b>                | IEC 60794-1 F4                            |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | IEC 60794-1 F15                      |
| <b>Drip</b>                          | 70 °C   158 °F                       |
| <b>Drip Test Method</b>              | IEC 60794-1-21 E14                   |
| <b>Heat Age Test Method</b>          | IEC 60794-1-22 F9                    |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | IEC 60794-1-21 E11                   |
| <b>Temperature Cycle</b>             | -30 °C to +70 °C (-22 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | IEC 60794-1-22 F1                    |

## Packaging and Weights

**Cable weight**

46 kg/km | 30.911 lb/kft

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CHINA-ROHS    | Below maximum concentration value  |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| 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