

Fiber OSP cable, A2 Dual-sheathed HDPE Drop, LSZH Subunit, Loose buffer, Singlemode, G.657.A2, 1 fiber (Red), Gel-free, Meters jacket marking, Black jacket color 500M Reel

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber drop cable  |
| <b>Product Series</b>        | D-DD  |

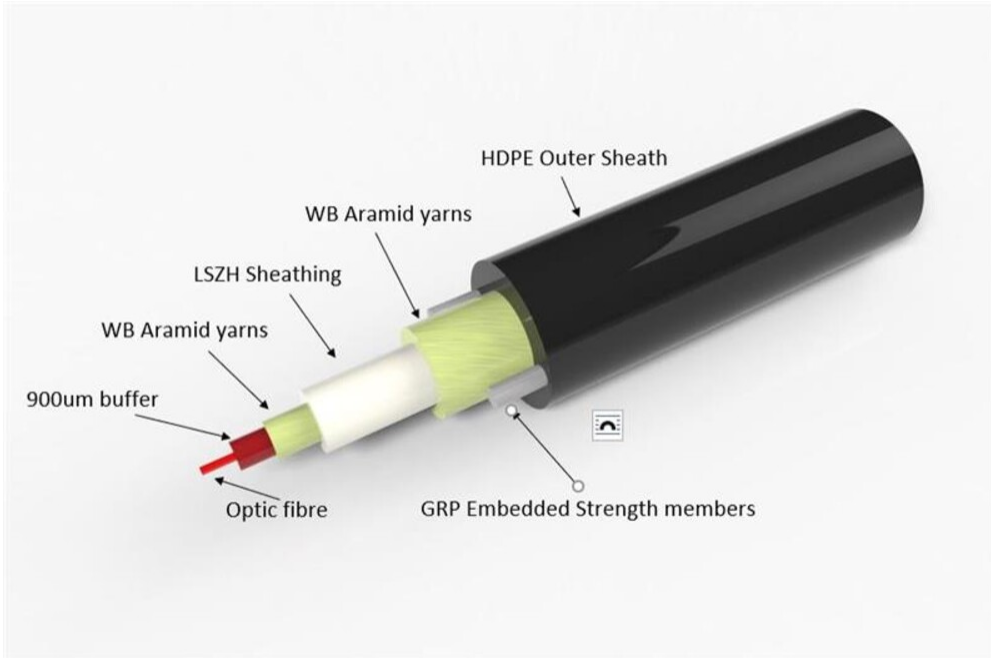
## General Specifications

|                                     |  |
|-------------------------------------|--|
| <b>Cable Type</b>                   | Outdoor drop with indoor subunit   |
| <b>Construction Type</b>            | Non-armored  |
| <b>Subunit Type</b>                 | Gel-free   |
| <b>Inner Jacket Color</b>           | White  |
| <b>Jacket Color</b>                 | Black  |
| <b>Jacket Marking</b>               | Meters   |
| <b>Jacket Marking Text</b>          | COMMSCOPE OPTICAL CABLE 810010312/DB G657A2 SM 1 FIBER EN50575 CLASS Dca [SERIAL NUMBER] [MM/YYYY] [Meter marking] m |
| <b>Subunit, quantity</b>            | 1  |
| <b>Fibers per Subunit, quantity</b> | 1  |
| <b>Total Fiber Count</b>            | 1  |

## Dimensions

|                                     |                     |
|-------------------------------------|---------------------|
| <b>Cable Length</b>                 | 500 m   1,640.42 ft |
| <b>Buffer Tube/Subunit Diameter</b> | 2 mm   0.079 in     |
| <b>Diameter Over Jacket</b>         | 5 mm   0.197 in     |

## Representative Image



## Material Specifications

|                              |                                  |
|------------------------------|----------------------------------|
| <b>Jacket Material</b>       | High density polyethylene (HDPE) |
| <b>Inner Jacket Material</b> | Low Smoke Zero Halogen (LSZH)    |

## Mechanical Specifications

|  |                           |
|--|---------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 50 mm   1.969 in          |
| <b>Minimum Bend Radius, unloaded</b>     | 30 mm   1.181 in          |
| <b>Tensile Load, long term, maximum</b>  | 400 N   89.924 lbf        |
| <b>Tensile Load, short term, maximum</b> | 880 N   197.832 lbf       |
| <b>Compression</b>                       | 20 N/mm   114.203 lb/in   |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3  |
| <b>Flex</b>                              | 35 cycles                 |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6 |
| <b>Impact</b>                            | 5 N-m   44.254 in lb      |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4  |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1  |
| <b>Twist</b>                             | 10 cycles                 |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7  |

## Optical Specifications

**Fiber Type** G.657.A2 | G.657.A2, TeraSPEED®

## Environmental Specifications

**Operating Temperature** -40 °C to +70 °C (-40 °F to +158 °F)

**Storage Temperature** -40 °C to +70 °C (-40 °F to +158 °F)

**Cable Qualification Standards** IEC 60794-1-2 | Telcordia GR-20

**EN50575 CPR Cable EuroClass Fire Performance** Cca

**EN50575 CPR Cable EuroClass Smoke Rating** s1a

**EN50575 CPR Cable EuroClass Droplets Rating** d0

**EN50575 CPR Cable EuroClass Acidity Rating** a1

**Environmental Space** Aerial, lashed | Buried | Drop | Façade | Underground (duct)

**Jacket UV Resistance** UV stabilized

**Water Penetration** 24 h

**Water Penetration Test Method** FOTP-82 | IEC 60794-1 F5

## Environmental Test Specifications

**Cable Freeze** -2 °C | 28.4 °F

**Cable Freeze Test Method** FOTP-98 | 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** FOTP-37 | IEC 60794-1 E11

**Temperature Cycle** -40 °C to +70 °C (-40 °F to +158 °F)

**Temperature Cycle Test Method** FOTP-3 | IEC 60794-1 F1

## Packaging and Weights

**Cable weight** 23.5 kg/km | 15.791 lb/kft

## Included Products

CS-8G-MP – Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

\* Footnotes

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