

Fiber indoor/outdoor drop cable, All-Dielectric, 1 fiber Tight Buffer construction, riser, drop all-dielectric, Singlemode G.657.B3, Gel-free, Meters jacket marking, Black jacket color, (Cca flame rating SUB UNIT ONLY)

## Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   EMEA   Latin America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber indoor/outdoor cable                          |
| Product Series        | C-DN  |

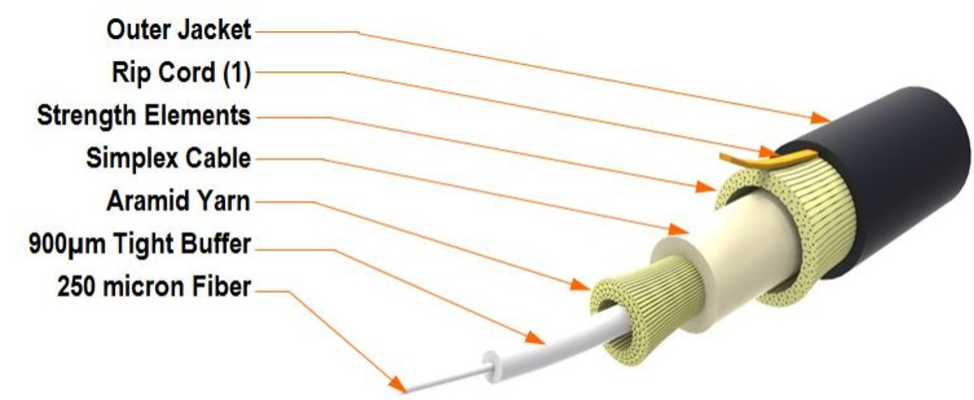
## General Specifications

|                              |  |
|------------------------------|--|
| Cable Type                   | Drop   Outdoor drop with indoor subunit  |
| Construction Type            | Non-armored  |
| Subunit Type                 | Gel-free   |
| Inner Jacket Color           | White  |
| Jacket Color                 | Black  |
| Jacket Marking               | Meters   |
| Jacket Marking Method        | Inkjet   |
| Jacket Marking Text          | COMMScope GB OPTICAL CABLE 810009823/DB 1xG657B3 SM + 1x05 /09TP LDPE (Serial NUMBER) (METRE MARK) |
| Subunit, quantity            | 1  |
| Fibers per Subunit, quantity | 1  |
| Total Fiber Count            | 1  |

## Dimensions

|                              |                 |
|------------------------------|-----------------|
| Buffer Tube/Subunit Diameter | 3 mm   0.118 in |
| Diameter Over Jacket         | 5 mm   0.197 in |

## Representative Image



Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 90 mm   3.543 in                      |
| Minimum Bend Radius, unloaded     | 60 mm   2.362 in                      |
| Tensile Load, long term, maximum  | 400 N   89.924 lbf                    |
| Tensile Load, short term, maximum | 1000 N   224.809 lbf                  |
| Compression                       | 20 N/mm   114.203 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                             | 5 cycles                              |
| Twist Test Method                 | IEC 60794-1 E7                        |

Optical Specifications

|            |          |
|------------|----------|
| Fiber Type | G.657.B3 |
|------------|----------|

Environmental Specifications

|                          |                                      |
|--------------------------|--------------------------------------|
| Installation temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Operating Temperature    | -20 °C to +60 °C (-4 °F to +140 °F)  |

|  |                                      |
|--|--------------------------------------|
| Storage Temperature                          | -40 °C to +70 °C (-40 °F to +158 °F) |
| Cable Qualification Standards                | IEC 60794-1-2                        |
| 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                          | Buried   Drop   Indoor/Outdoor       |
| Jacket UV Resistance                         | UV stabilized                        |
| Water Penetration                            | 24 h                                 |
| Water Penetration Test Method                | FOTP-82   IEC 60794-1 F5             |

### Environmental Test Specifications

|                               |                                     |
|-------------------------------|-------------------------------------|
| Temperature Cycle             | -20 °C to +70 °C (-4 °F to +158 °F) |
| Temperature Cycle Test Method | IEC 60794-1-2 F1                    |

### Packaging and Weights

|              |                            |
|--------------|----------------------------|
| Cable weight | 24.7 kg/km   16.598 lb/kft |
|--------------|----------------------------|

### Included Products

|                      |   |  |
|----------------------|---|--|
| CS-8G-TB             | – | Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)                   |
| R-001-SP-8G-F29IV/WB | – | Fiber indoor cable, All-Dielectric Indoor Riser Simplex, Singlemode G.657.A2/B2, Feet jacket marking, Ivory jacket color |

### \* Footnotes

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

# CS-8G-TB

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

## Product Classification

|              |               |
|--------------|---------------|
| Portfolio    | CommScope®    |
| Product Type | Optical fiber |

## General Specifications

|   |                        |
|---|------------------------|
| Cladding Diameter                             | 125 µm                 |
| Cladding Diameter Tolerance                   | ±0.7 µm                |
| Cladding Non-Circularity, maximum             | 0.7 %                  |
| Coating Diameter (Colored)                    | 249 µm                 |
| Coating Diameter (Uncolored)                  | 242 µm                 |
| Coating Diameter Tolerance (Colored)          | ±13 µm                 |
| Coating Diameter Tolerance (Uncolored)        | ±5 µm                  |
| Coating/Cladding Concentricity Error, maximum | 12 µm                  |
| Core/Clad Offset, maximum                     | 0.5 µm                 |
| Proof Tensile Stress                          | 100,000 psi (0.69 GPa) |

## Dimensions

|                     |                 |
|---------------------|-----------------|
| Fiber Curl, minimum | 4 m   13.123 ft |
|---------------------|-----------------|

## Mechanical Specifications

|   |   |
|---|---|
| Macrobending, 15 mm Ø mandrel, 1 turn   | 0.50 dB @ 1,550 nm   1.00 dB @ 1,625 nm |
| Macrobending, 20 mm Ø mandrel, 1 turn   | 0.10 dB @ 1,550 nm   0.20 dB @ 1,625 nm |
| Macrobending, 30 mm Ø mandrel, 10 turns | 0.03 dB @ 1,550 nm   0.10 dB @ 1,625 nm |
| Coating Strip Force, maximum            | 8.9 N   2.001 lbf                       |
| Coating Strip Force, minimum            | 1.3 N   0.292 lbf                       |
| Dynamic Fatigue Parameter, minimum      | 20                                      |

## Optical Specifications

|                                   |         |
|-----------------------------------|---------|
| Cabled Cutoff Wavelength, maximum | 1260 nm |
| Point Defects, maximum            | 0.1 dB  |

# CS-8G-TB

|   |  |
|---|--|
| Zero Dispersion Slope, maximum                          | 0.092 ps/[km-nm-nm]  |
| Zero Dispersion Wavelength, maximum                     | 1324 nm  |
| Zero Dispersion Wavelength, minimum                     | 1302 nm  |
| Optical Specifications, Wavelength Specific             |  |
| Attenuation, maximum                                    | 0.50 dB/km @ 1,310 nm   0.50 dB/km @ 1,385 nm   0.50 dB/km @ 1,550 nm      |
| Dispersion, maximum                                     | 18 ps(nm-km) at 1550 nm   3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| Index of Refraction                                     | 1.467 @ 1,310 nm   1.467 @ 1,385 nm   1.468 @ 1,550 nm                     |
| Mode Field Diameter                                     | 8.6 µm @ 1,310 nm   9.8 µm @ 1,550 nm                                      |
| Mode Field Diameter Tolerance                           | ±0.4 µm @ 1310 nm   ±0.5 µm @ 1550 nm                                      |
| Polarization Mode Dispersion Link Design Value, maximum | 0.06 ps/sqrt(km)   |
| Standards Compliance                                    | ITU-T G.657.A2   ITU-T G.657.B2  |

## Environmental Specifications

|                                       |                    |
|---------------------------------------|--------------------|
| Heat Aging, maximum                   | 0.05 dB/km @ 85 °C |
| Temperature Dependence, maximum       | 0.05 dB/km         |
| Temperature Humidity Cycling, maximum | 0.05 dB/km         |
| Water Immersion, maximum              | 0.05 dB/km @ 23 °C |

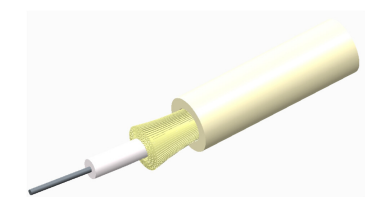
## Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## \* Footnotes

|                                       |   |
|---------------------------------------|---|
| Temperature Dependence, maximum       | Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)                                   |
| Temperature Humidity Cycling, maximum | Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity |

# R-001-SP-8G-F29IV/WB



Fiber indoor cable, All-Dielectric Indoor Riser Simplex, Singlemode G.657.  
A2/B2, Feet jacket marking, Ivory jacket color

## Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   Latin America   Middle East/Africa   North America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber indoor cable  |
| Product Series        | R-SP  |

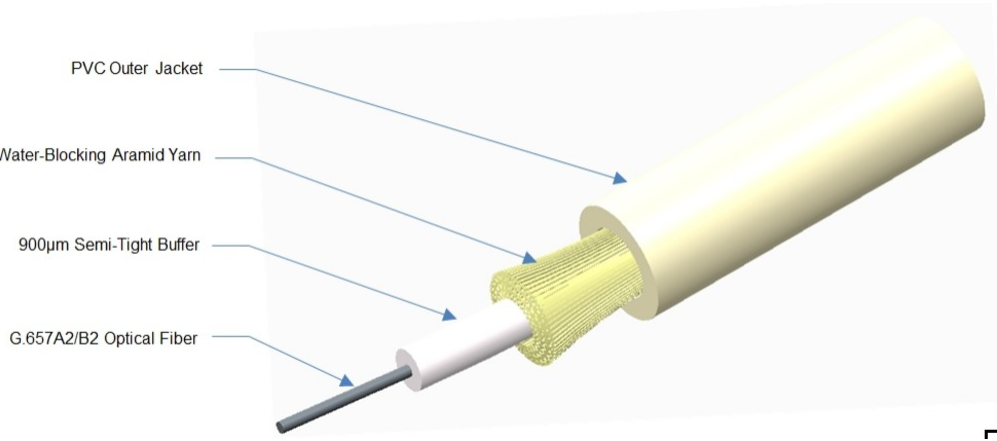
## General Specifications

|                   |             |
|-------------------|-------------|
| Cable Type        | Cordage     |
| Construction Type | Non-armored |
| Subunit Type      | Gel-free    |
| Jacket Color      | Ivory       |
| Jacket Marking    | Feet        |
| Total Fiber Count | 1           |

## Dimensions

|                      |                   |
|----------------------|-------------------|
| Diameter Over Jacket | 2.9 mm   0.114 in |
|----------------------|-------------------|

## Representative Image



# R-001-SP-8G-F29IV/WB

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## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 50 mm   1.969 in                      |
| Minimum Bend Radius, unloaded     | 30 mm   1.181 in                      |
| Tensile Load, long term, maximum  | 30 N   6.744 lbf                      |
| Tensile Load, short term, maximum | 100 N   22.481 lbf                    |
| Compression                       | 22 N/mm   125.623 lb/in               |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 300 cycles                            |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 0.74 N-m   6.55 in lb                 |
| Impact Test Method                | FOTP-25   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                 | FOTP-85   IEC 60794-1 E7              |
| Vertical Rise, maximum            | 334 m   1,095.801 ft                  |

## Optical Specifications

|            |                           |
|------------|---------------------------|
| Fiber Type | G.657.A2/B2   G.657.A2/B2 |
|------------|---------------------------|

## Environmental Specifications

|                               |  |
|-------------------------------|--|
| Installation temperature      | -20 °C to +60 °C (-4 °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)   |
| Cable Qualification Standards | ANSI/ICEA S-104-696   Telcordia GR-409 |
| Environmental Space           | Riser                                  |
| Flame Test Listing            | NEC OFNR (ETL) and c(ETL)              |
| Flame Test Method             | CSA FT4   UL 1666                      |
| Jacket UV Resistance          | UV stabilized                          |
| Water Penetration             | 24 h                                   |
| Water Penetration Test Method | FOTP-82   IEC 60794-1 F5               |

# R-001-SP-8G-F29IV/WB

## 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 | 7.9 kg/km   5.309 lb/kft |
|--------------|--------------------------|

## Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

### \* Footnotes

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