

Fiber indoor/outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, Plenum Rated, 12 fiber, Singlemode G.652.D and G.657.A1, Gel-Free, Stranded Loose Tube, PVDF jacket, Black jacket color, Feet cable marking

## Product Classification

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

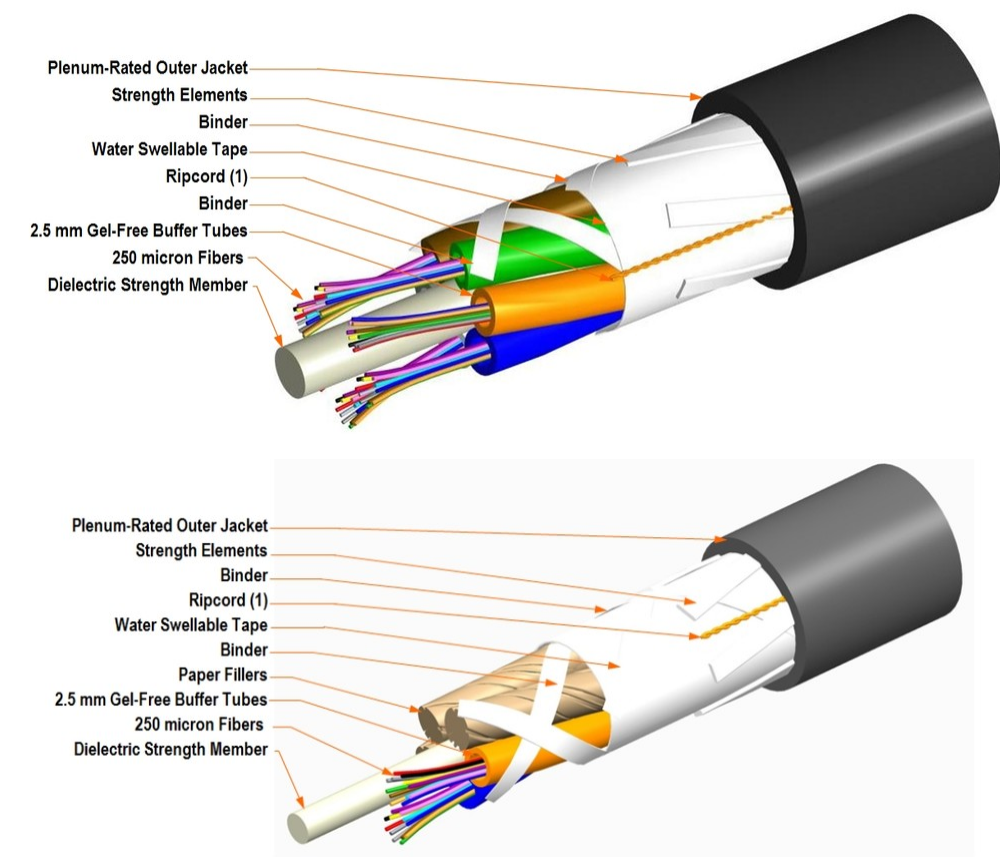
## General Specifications

|                              |                     |
|------------------------------|---------------------|
| Cable Type                   | Stranded loose tube |
| Construction Type            | Non-armored         |
| Subunit Type                 | Gel-free            |
| Filler, quantity             | 4                   |
| Jacket Color                 | Black               |
| Jacket Marking               | Feet                |
| Subunit, quantity            | 1                   |
| Fibers per Subunit, quantity | 12                  |
| Total Fiber Count            | 12                  |

## Dimensions

|                              |                   |
|------------------------------|-------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in |
| Diameter Over Jacket         | 9.7 mm   0.382 in |

## Representative Image



## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 146 mm   5.748 in                     |
| Minimum Bend Radius, unloaded     | 97 mm   3.819 in                      |
| Tensile Load, long term, maximum  | 800 N   179.847 lbf                   |
| Tensile Load, short term, maximum | 2700 N   606.984 lbf                  |
| Compression                       | 22 N/mm   125.623 lb/in               |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 2.94 N-m   26.021 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                             |

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|                        |  |
|------------------------|--|
| Twist Test Method      | FOTP-85   IEC 60794-1 E7                     |
| Vertical Rise, maximum | 880 m   2,887.139 ft                         |
| Optical Specifications |  |
| Fiber Type             | G.652.D and G.657.A1, TeraSPEED®   OS2   OS2 |

## Environmental Specifications

|                               |  |
|-------------------------------|--|
| Installation temperature      | -30 °C to +70 °C (-22 °F to +158 °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   EN 187105   Telcordia GR-409 |
| Environmental Space           | Plenum   |
| Flame Test Listing            | NEC OFNP (ETL) and c(ETL)                          |
| Flame Test Method             | NFPA 130   NFPA 262                                |
| 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 | 92 kg/km   61.821 lb/kft |
|--------------|--------------------------|

## Regulatory Compliance/Certifications

|            |                                   |
|------------|-----------------------------------|
| Agency     | Classification                    |
| CHINA-ROHS | Below maximum concentration value |

|               |  |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| 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-8W-IOLT - TeraSPEED® OS2 Singlemode Fiber

\* Footnotes

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