



Fiber OSP cable, TeraSPEED® Single Jacket All-Dielectric, Gel-Free, Stranded Loose Tube, 72 fibers, Composite OM3 and G.652.D and G.657. A1, Feet jacket marking, Black jacket color

## Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber OSP cable   |
| Product Series        | D-LN  |

## General Specifications

|                              |                     |
|------------------------------|---------------------|
| Cable Type                   | Stranded loose tube |
| Construction Type            | Non-armored         |
| Subunit Type                 | Gel-free            |
| Jacket Color                 | Black               |
| Jacket Marking               | Feet                |
| Subunit, quantity            | 6                   |
| Fibers per Subunit, quantity | 12                  |
| Composite Fiber Count        | 24 + 48             |
| Total Fiber Count            | 72                  |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in  |
| Diameter Over Jacket         | 10.5 mm   0.413 in |

## Representative Image



Material Specifications

Jacket Material

PE

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 158 mm   6.22 in                      |
| Minimum Bend Radius, unloaded     | 105 mm   4.134 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                            | 4.41 N-m   39.032 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            | 1170 m   3,838.583 ft                 |

Optical Specifications

Fiber Type

Composite MM/SM | G.652.D and G.657.A1, TeraSPEED® | OM3, LazrSPEED® 300 | 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-87-640   EN 187105   Telcordia GR-20 |
| Environmental Space           | Aerial, lashed   Buried                          |
| 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 | 70 kg/km   47.038 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-5L-LT

|          |   |   |
|----------|---|---|
| -----    | - | LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber |
| CS-8W-LT | - | TeraSPEED® G652D/G657A1 Singlemode Fiber            |

\* Footnotes

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