



Fiber OSP cable, TeraSPEED® Single Jacket All-Dielectric, Gel-Free, Stranded Loose Tube, 24 fibers, Composite OM1 and G.652.D and G.657.A1, Feet jacket marking, Black 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 OSP cable   |
| <b>Product Series</b>        | D-LN  |

## General Specifications

|                                     |                     |
|-------------------------------------|---------------------|
| <b>Cable Type</b>                   | Stranded loose tube |
| <b>Construction Type</b>            | Non-armored         |
| <b>Subunit Type</b>                 | Gel-free            |
| <b>Filler, quantity</b>             | 3                   |
| <b>Jacket Color</b>                 | Black               |
| <b>Jacket Marking</b>               | Feet                |
| <b>Subunit, quantity</b>            | 2                   |
| <b>Fibers per Subunit, quantity</b> | 12                  |
| <b>Composite Fiber Count</b>        | 12 + 12             |
| <b>Total Fiber Count</b>            | 24                  |

## Dimensions

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2.5 mm   0.098 in  |
| <b>Diameter Over Jacket</b>         | 10.2 mm   0.402 in |

## Representative Image



## Material Specifications

**Jacket Material** PE

## Mechanical Specifications

**Minimum Bend Radius, loaded** 153 mm | 6.024 in  
**Minimum Bend Radius, unloaded** 102 mm | 4.016 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** 1307 m | 4,288.058 ft

## Optical Specifications

**Fiber Type** Composite MM/SM | G.652.D and G.657.A1, TeraSPEED® | OM1, OptiSPEED® | OS2

## Environmental Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Installation temperature</b>      | -30 °C to +70 °C (-22 °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 +75 °C (-40 °F to +167 °F) |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-87-640   EN 187105       |
| <b>Environmental Space</b>           | Aerial, lashed   Buried              |
| <b>Jacket UV Resistance</b>          | UV stabilized                        |
| <b>Water Penetration</b>             | 24 h                                 |
| <b>Water Penetration Test Method</b> | FOTP-82   IEC 60794-1 F5             |

## Environmental Test Specifications

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Cable Freeze</b>                  | -2 °C   28.4 °F                      |
| <b>Cable Freeze Test Method</b>      | FOTP-98   IEC 60794-1 F15            |
| <b>Heat Age</b>                      | -40 °C to +85 °C (-40 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1 F9                       |
| <b>Low High Bend</b>                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11            |
| <b>Temperature Cycle</b>             | -40 °C to +70 °C (-40 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1              |

## Packaging and Weights

|                     |                          |
|---------------------|--------------------------|
| <b>Cable weight</b> | 63 kg/km   42.334 lb/kft |
|---------------------|--------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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-6F-LT

- OptiSPEED® OM1 Multimode Fiber
- CS-8W-LT - TeraSPEED® G652D/G657A1 Singlemode Fiber

## \* Footnotes

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