

Fiber OSP cable, TeraSPEED® Single Jacket All-Dielectric, 144 fiber, Gel-Free, Stranded Loose Tube, Singlemode 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                                                                |

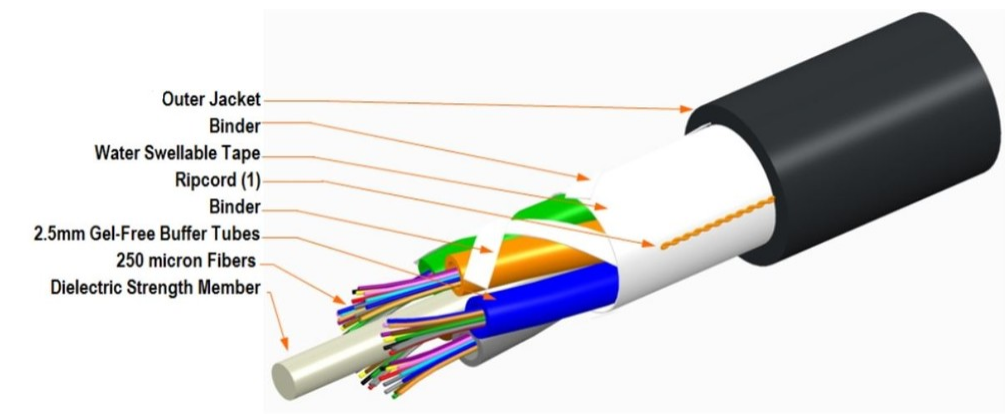
## General Specifications

|                              |                     |
|------------------------------|---------------------|
| Cable Type                   | Stranded loose tube |
| Construction Type            | Non-armored         |
| Subunit Type                 | Gel-free            |
| Jacket Color                 | Black               |
| Jacket Marking               | Feet                |
| Subunit, quantity            | 12                  |
| Fibers per Subunit, quantity | 12                  |
| Total Fiber Count            | 144                 |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in  |
| Diameter Over Jacket         | 15.7 mm   0.618 in |

## Representative Image



Material Specifications

Jacket Material

PE

Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 236 mm   9.291 in                     |
| Minimum Bend Radius, unloaded     | 157 mm   6.181 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                            | 5.15 N-m   45.581 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            | 533 m   1,748.688 ft                  |

Optical Specifications

Fiber Type

G.652.D and G.657.A1, TeraSPEED® | 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       |
| 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 | 153 kg/km   102.811 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-LT

# 760053918 | D-144-LN-8W-F12NS

---

- TeraSPEED® G652D/G657A1 Singlemode Fiber

## \* Footnotes

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