



Fiber OSP Cable, Non-Armored, All-Dielectric, 432 fiber, Arid-Core, Dry Central Tube Ribbon, Singlemode G.652.D and G.657.A1, Gel-free, Feet jacket marking, Black jacket color

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

## 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-CN  |
| <b>Government Requirements</b> | Build America Buy America (BABA) compliant*                         |

## General Specifications

|                                    |                     |
|------------------------------------|---------------------|
| <b>Cable Type</b>                  | Ribbon central tube |
| <b>Construction Type</b>           | Non-armored         |
| <b>Subunit Type</b>                | Gel-free            |
| <b>Fibers per Ribbon, quantity</b> | 24                  |
| <b>Jacket Color</b>                | Black               |
| <b>Jacket Marking</b>              | Feet                |
| <b>Location of Manufacturing</b>   | Carrollton, Georgia |
| <b>Total Fiber Count</b>           | 432                 |

## Dimensions

|                                     |                   |
|-------------------------------------|-------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 14 mm   0.551 in  |
| <b>Diameter Over Jacket</b>         | 19.8 mm   0.78 in |

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 396.2 mm   15.598 in                  |
| <b>Minimum Bend Radius, unloaded</b>     | 396.2 mm   15.598 in                  |
| <b>Tensile Load, long term, maximum</b>  | 800 N   179.847 lbf                   |
| <b>Tensile Load, short term, maximum</b> | 2700 N   606.984 lbf                  |
| <b>Compression</b>                       | 22 N/mm   125.623 lb/in               |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 25 cycles                             |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 4.4 N-m   38.943 in lb                |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |

## Optical Specifications

|                   |   |
|-------------------|---|
| <b>Fiber Type</b> | G.652.D and G.657.A1   G.652.D and G.657.A1 |
|-------------------|---|

## Environmental Specifications

|                                 |                                      |
|---------------------------------|--------------------------------------|
| <b>Installation temperature</b> | -30 °C to +60 °C (-22 °F to +140 °F) |
| <b>Operating Temperature</b>    | -40 °C to +70 °C (-40 °F to +158 °F) |

# 760213553 | D-432-CN-RB-F24NS/8W/99A

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| <b>Storage Temperature</b>           | -40 °C to +75 °C (-40 °F to +167 °F) |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-87-640   Telcordia GR-20 |
| <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>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> | 256 kg/km   172.024 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-8W-RB-OUTDOOR – TeraSPEED® Singlemode Fiber Rollable Ribbon

## \* Footnotes

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