

Fiber indoor/outdoor cable, LightScope® ZWP, Single Jacket All-Dielectric, Riser Rated, 96 fiber, Gel-Free, Stranded Loose Tube, Singlemode + Multimode OM4, Feet jacket marking, Black jacket color

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        | R-LN                                                                               |

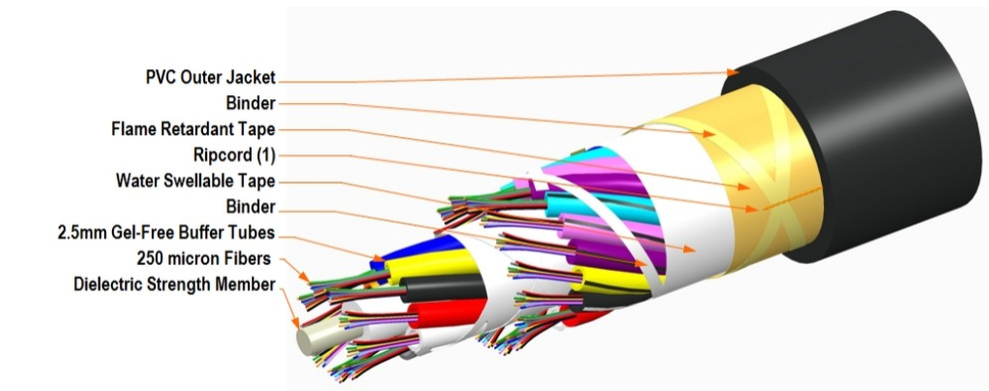
General Specifications

|                              |                     |
|------------------------------|---------------------|
| Cable Type                   | Stranded loose tube |
| Construction Type            | Non-armored         |
| Subunit Type                 | Gel-free            |
| Jacket Color                 | Black               |
| Jacket Marking               | Feet                |
| Subunit, quantity            | 8                   |
| Fibers per Subunit, quantity | 12                  |
| Composite Fiber Count        | 72 + 24             |
| Total Fiber Count            | 96                  |

Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in  |
| Diameter Over Jacket         | 13.5 mm   0.531 in |

Representative Image



## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 202 mm   7.953 in                     |
| Minimum Bend Radius, unloaded     | 134 mm   5.276 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            | 500 m   1,640.42 ft                   |

## Optical Specifications

|            |                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------|
| Fiber Type | Composite MM/SM   G.652.D and G.657.A1   G.652.D and G.657.A1, TeraSPEED®   OM4, LazrSPEED® 550   OS2 |
|------------|-------------------------------------------------------------------------------------------------------|

## Environmental Specifications

|                          |                                      |
|--------------------------|--------------------------------------|
| Installation temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Operating Temperature    | -40 °C to +70 °C (-40 °F to +158 °F) |

# 760179853 | R-096-LN-CM-F12BK/25D/8W072 /5K024

|                               |                                                    |
|-------------------------------|----------------------------------------------------|
| 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           | Riser                                              |
| Flame Test Listing            | NEC OFNR (ETL) and c(ETL)                          |
| Flame Test Method             | UL 1666                                            |
| 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 | 164 kg/km   110.203 lb/kft |
|--------------|----------------------------|

## Regulatory Compliance/Certifications

| Agency        | Classification                                                                 |
|---------------|--------------------------------------------------------------------------------|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## Included Products

|            |                                                       |
|------------|-------------------------------------------------------|
| CS-5K-LT   | - LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber |
| CS-8W-IOLT | - TeraSPEED® OS2 Singlemode Fiber                     |

## \* Footnotes

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