



Fiber indoor/outdoor cable, LazrSPEED®, Gel-Free, 12 fiber, Stranded Loose Tube with Aluminum Interlocking Armor containing a Riser Rated Outer Jacket, Multimode OM3, Feet jacket marking, Black jacket color

## Product Classification

|                              |  |
|------------------------------|--|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   Latin America   Middle East /Africa   North America |
| <b>Portfolio</b>             | CommScope®   |
| <b>Product Type</b>          | Fiber indoor/outdoor cable   |
| <b>Product Series</b>        | R-LZ   |

## General Specifications

|                                     |                       |
|-------------------------------------|-----------------------|
| <b>Armor Type</b>                   | Interlocking aluminum |
| <b>Cable Type</b>                   | Stranded loose tube   |
| <b>Construction Type</b>            | 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>Total Fiber Count</b>            | 18                    |

## Dimensions

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2.5 mm   0.098 in  |
| <b>Diameter Over Armor</b>          | 18.4 mm   0.724 in |
| <b>Diameter Over Jacket</b>         | 20.5 mm   0.807 in |

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 409 mm   16.102 in                    |
| <b>Minimum Bend Radius, unloaded</b>     | 286 mm   11.26 in                     |
| <b>Tensile Load, long term, maximum</b>  | 400 N   89.924 lbf                    |
| <b>Tensile Load, short term, maximum</b> | 1335 N   300.12 lbf                   |
| <b>Compression</b>                       | 85 N/mm   485.363 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>                            | 35 N-m   309.776 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              |
| <b>Vertical Rise, maximum</b>            | 125 m   410.105 ft                    |

## Optical Specifications

|                   |   |
|-------------------|---|
| <b>Fiber Type</b> | OM3, LazrSPEED® 300   OM3, LazrSPEED® 300 |
|-------------------|---|

## Environmental Specifications

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

# 760164723 | R-018-LZ-5L-F12BK/25D

|                                      |  |
|--------------------------------------|--|
| <b>Storage Temperature</b>           | -40 °C to +75 °C (-40 °F to +167 °F)               |
| <b>Cable Qualification Standards</b> | ANSI/ICEA S-104-696   EN 187105   Telcordia GR-409 |
| <b>Environmental Space</b>           | Riser  |
| <b>Flame Test Listing</b>            | NEC OFCR (ETL) and c(ETL)                          |
| <b>Flame Test Method</b>             | UL 1666  |
| <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> | 320 kg/km   215.03 lb/kft |
|---------------------|---------------------------|

## Regulatory Compliance/Certifications

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

## Included Products

|          |   |
|----------|---|
| CS-5L-LT | – LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber |
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## \* Footnotes

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