



Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser MPO Trunk, 36 fiber with 2.0 mm Subunits, Multimode OM5, Feet jacket marking, Lime-green jacket color, B2ca flame rating

## Product Classification

|                              |                                     |
|------------------------------|-------------------------------------|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA |
| <b>Portfolio</b>             | CommScope®                          |
| <b>Product Type</b>          | Fiber indoor cable                  |
| <b>Product Series</b>        | N-MP                                |

## General Specifications

|                                     |                 |
|-------------------------------------|-----------------|
| <b>Cable Type</b>                   | MPO trunk cable |
| <b>Construction Type</b>            | Non-armored     |
| <b>Fiber Type, quantity</b>         | 36              |
| <b>Fibers per Subunit, quantity</b> | 12              |
| <b>Filler, quantity</b>             | 1               |
| <b>Jacket Color</b>                 | Lime green      |
| <b>Jacket Marking</b>               | Feet            |
| <b>Subunit Type</b>                 | Gel-free        |
| <b>Subunit, quantity</b>            | 3               |
| <b>Total Fiber Count</b>            | 36              |

## Dimensions

|                                     |                   |
|-------------------------------------|-------------------|
| <b>Buffer Tube/Subunit Diameter</b> | 2 mm   0.079 in   |
| <b>Diameter Over Jacket</b>         | 7.8 mm   0.307 in |

## Representative Image



## Mechanical Specifications

|                                          |                                       |
|------------------------------------------|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 116 mm   4.567 in                     |
| <b>Minimum Bend Radius, unloaded</b>     | 78 mm   3.071 in                      |
| <b>Tensile Load, long term, maximum</b>  | 200 N   44.962 lbf                    |
| <b>Tensile Load, short term, maximum</b> | 667 N   149.948 lbf                   |
| <b>Compression</b>                       | 10 N/mm   57.101 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>                            | 2.94 N-m   26.021 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>            | 340 m   1,115.486 ft                  |

## Optical Specifications

|                   |                          |
|-------------------|--------------------------|
| <b>Fiber Type</b> | OM5, LazrSPEED® wideband |
|-------------------|--------------------------|

## Environmental Specifications

|                                 |                                    |
|---------------------------------|------------------------------------|
| <b>Installation temperature</b> | 0 °C to +60 °C (+32 °F to +140 °F) |
| <b>Operating Temperature</b>    | 0 °C to +70 °C (+32 °F to +158 °F) |

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|                                                     |                                         |
|-----------------------------------------------------|-----------------------------------------|
| <b>Storage Temperature</b>                          | -40 °C to +70 °C (-40 °F to +158 °F)    |
| <b>Cable Qualification Standards</b>                | ANSI/ICEA S-83-596   Telcordia GR-409   |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | B2ca                                    |
| <b>EN50575 CPR Cable EuroClass Smoke Rating</b>     | s1a                                     |
| <b>EN50575 CPR Cable EuroClass Droplets Rating</b>  | d0                                      |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a1                                      |
| <b>Environmental Space</b>                          | Low Smoke Zero Halogen (LSZH)           |
| <b>Flame Test Method</b>                            | IEC 60332-3   IEC 60754-2   IEC 61034-2 |

## Environmental Test Specifications

|                                      |                                    |
|--------------------------------------|------------------------------------|
| <b>Low High Bend</b>                 | 0 °C to +70 °C (+32 °F to +158 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11          |
| <b>Temperature Cycle</b>             | 0 °C to +70 °C (+32 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1            |

## Packaging and Weights

|                     |                            |
|---------------------|----------------------------|
| <b>Cable weight</b> | 60.1 kg/km   40.385 lb/kft |
|---------------------|----------------------------|

## Included Products

CS-5G-MP – LazrSPEED® OM5 WideBand Multimode Fiber

## \* Footnotes

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

# LazrSPEED®

### Product Classification

|                     |               |
|---------------------|---------------|
| <b>Portfolio</b>    | CommScope®    |
| <b>Product Type</b> | Optical fiber |

### General Specifications

|                                                      |                                        |
|------------------------------------------------------|----------------------------------------|
| <b>Cladding Diameter</b>                             | 125 µm                                 |
| <b>Cladding Diameter Tolerance</b>                   | ±0.8 µm                                |
| <b>Cladding Non-Circularity, maximum</b>             | 0.7 %                                  |
| <b>Coating Diameter (Colored)</b>                    | 254 µm                                 |
| <b>Coating Diameter (Uncolored)</b>                  | 242 µm                                 |
| <b>Coating Diameter Tolerance (Colored)</b>          | ±7 µm                                  |
| <b>Coating Diameter Tolerance (Uncolored)</b>        | ±5 µm                                  |
| <b>Coating/Cladding Concentricity Error, maximum</b> | 12 µm                                  |
| <b>Core Diameter</b>                                 | 50 µm                                  |
| <b>Core Diameter Tolerance</b>                       | ±2.5 µm                                |
| <b>Core/Clad Offset, maximum</b>                     | 1 µm                                   |
| <b>Proof Test</b>                                    | 689.476 N/mm <sup>2</sup>   100000 psi |

### Mechanical Specifications

|                                                 |                                       |
|-------------------------------------------------|---------------------------------------|
| <b>Macrobending, 15 mm Ø mandrel, 2 turns</b>   | 0.20 dB @ 850 nm   0.50 dB @ 1,300 nm |
| <b>Macrobending, 30 mm Ø mandrel, 2 turns</b>   | 0.10 dB @ 850 nm   0.30 dB @ 1,300 nm |
| <b>Macrobending, 75 mm Ø mandrel, 100 turns</b> | 0.50 dB @ 1,300 nm   0.50 dB @ 850 nm |
| <b>Coating Strip Force, maximum</b>             | 4.5 N   1.012 lbf                     |
| <b>Coating Strip Force, minimum</b>             | 0.9 N   0.202 lbf                     |
| <b>Dynamic Fatigue Parameter, minimum</b>       | 18                                    |

# CS-5G-MP

## Optical Specifications

|                                             |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| <b>Numerical Aperture</b>                   | 0.2                                                   |
| <b>Numerical Aperture Tolerance</b>         | ±0.010                                                |
| <b>Point Defects, maximum</b>               | 0.15 dB                                               |
| <b>Zero Dispersion Slope, maximum (OM5)</b> | $-412/(\lambda_0(1-(\lambda_0/840)^4))$ ps/[km-nm-nm] |
| <b>Zero Dispersion Wavelength, maximum</b>  | 1328 nm                                               |
| <b>Zero Dispersion Wavelength, minimum</b>  | 1297 nm                                               |

## Optical Specifications, Wavelength Specific

|                                  |                                                                                                                                                                          |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 Gbps Ethernet Distance</b>  | 1,110 m @ 850 nm   600 m @ 1,300 nm                                                                                                                                      |
| <b>10 Gbps Ethernet Distance</b> | 550 m @ 850 nm                                                                                                                                                           |
| <b>Attenuation, maximum</b>      | 1.00 dB/km @ 1,300 nm   2.20 dB/km @ 953 nm   3.00 dB/km @ 850 nm                                                                                                        |
| <b>Bandwidth, Laser, minimum</b> | 2,600 MHz-km @ 953 nm   4,700 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm                                                                                                    |
| <b>Bandwidth, OFL, minimum</b>   | 1,950 MHz-km @ 953 nm   3,500 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm                                                                                                    |
| <b>Index of Refraction</b>       | 1.478 @ 1,300 nm   1.483 @ 850 nm                                                                                                                                        |
| <b>Standards Compliance</b>      | ANSI/TIA-568.3-D wideband multimode fiber cable   IEC 60793-2-10, edition 6, model A1a.4   ISO 11801-1 cabled optical fiber performance category OM5   TIA-492AAAE (OM5) |

## Environmental Specifications

|                                              |                    |
|----------------------------------------------|--------------------|
| <b>Heat Aging, maximum</b>                   | 0.10 dB/km @ 85 °C |
| <b>Temperature Dependence, maximum</b>       | 0.1 dB/km          |
| <b>Temperature Humidity Cycling, maximum</b> | 0.1 dB/km          |
| <b>Water Immersion, maximum</b>              | 0.10 dB/km @ 23 °C |

## Regulatory Compliance/Certifications

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



## \* Footnotes

# CS-5G-MP

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**Temperature Dependence, maximum**

Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)

**Temperature Humidity Cycling, maximum**

Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity