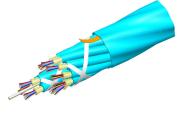
# 760248166 | N-048-MP-5K-F08AQ/20T/D



Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser MPO Trunk, 48 fiber multi-unit with 8 fiber 2.0mm subunits, Gel-free, Multimode OM4, Feet jacket marking, Aqua jacket color, Dca flame rating

### Product Classification

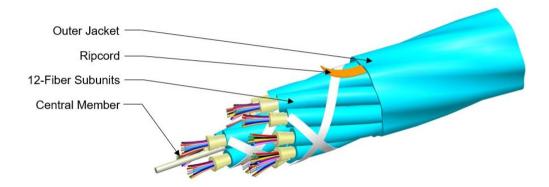
| Regional Availability        | Asia   Australia/New Zealand   EMEA   Latin America   North<br>America |
|------------------------------|--|
| Portfolio                    | CommScope®   |
| Product Type                 | Fiber indoor cable   |
| Product Series               | N-MP   |
| General Specifications       |  |
| Cable Type                   | MPO trunk cable  |
| Construction Type            | Non-armored  |
| Subunit Type                 | Gel-free   |
| Jacket Color                 | Aqua   |
| Jacket Marking               | Feet   |
| Subunit, quantity            | 6  |
| Fibers per Subunit, quantity | 8  |
| Total Fiber Count            | 48   |
| Dimensions                   |  |
| Buffer Tube/Subunit Diameter | 2 mm   0.079 in  |
| Diameter Over Jacket         | 8.2 mm   0.323 in  |

### Representative Image

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# 760248166 | N-048-MP-5K-F08AQ/20T/D



## Mechanical Specifications

| Minimum Bend Radius, loaded       | 123 mm   4.843 in                     |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded     | 82 mm   3.228 in                      |
| Tensile Load, long term, maximum  | 200 N   44.962 lbf                    |
| Tensile Load, short term, maximum | 667 N   149.948 lbf                   |
| Compression                       | 10 N/mm   57.101 lb/in                |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 300 cycles                            |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 2.94 N-m   26.021 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            | 295 m   967.848 ft                    |
| Optical Specifications            |                                       |
|                                   |                                       |

OM4, LazrSPEED® 550 | OM4, LazrSPEED® 550

Fiber Type

## Environmental Specifications

| Installation temperature | 0 °C to +60 °C (+32 °F to +140 °F)   |
|--------------------------|--------------------------------------|
| Operating Temperature    | 0 °C to +70 °C (+32 °F to +158 °F)   |
| Storage Temperature      | -40 °C to +70 °C (-40 °F to +158 °F) |

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# 760248166 | N-048-MP-5K-F08AQ/20T/D

| Cable Qualification Standards                | ANSI/ICEA S-83-596   Telcordia GR-409                       |
|--|---|
| EN50575 CPR Cable EuroClass Fire Performance | Dca   |
| EN50575 CPR Cable EuroClass Smoke Rating     | s1a   |
| EN50575 CPR Cable EuroClass Droplets Rating  | d1  |
| EN50575 CPR Cable EuroClass Acidity Rating   | al  |
| Environmental Space                          | Low Smoke Zero Halogen (LSZH)   Riser                       |
| Flame Test Listing                           | NEC OFNR-ST1 (ETL) and c(ETL)                               |
| Flame Test Method                            | IEC 60332-3   IEC 60754-2   IEC 61034-2   UL 1666   UL 1685 |

#### **Environmental Test Specifications**

| 0 °C to +85 °C (+32 °F to +185 °F)  |
|-------------------------------------|
| IEC 60794-1 F9                      |
| -20 °C to +70 °C (-4 °F to +158 °F) |
| FOTP-37   IEC 60794-1 E11           |
| 0 °C to +70 °C (+32 °F to +158 °F)  |
| FOTP-3   IEC 60794-1 F1             |
|                                     |

#### Packaging and Weights

**Cable weight** 

55 kg/km | 36.958 lb/kft

#### Included Products

CS-5K-MP

 LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

#### \* Footnotes

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

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#### LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

# LazrSPEED® 550

### Product Classification

| Portfolio                                     | CommScope®                 |
|---|----------------------------|
| Product Type                                  | Optical fiber              |
| General Specifications                        |                            |
| Cladding Diameter                             | 125 µm                     |
| Cladding Diameter Tolerance                   | ±0.8 µm                    |
| Cladding Non-Circularity, maximum             | 1 %                        |
| Coating Diameter (Colored)                    | 254 µm                     |
| Coating Diameter (Uncolored)                  | 245 µm                     |
| Coating Diameter Tolerance (Colored)          | ±7 μm                      |
| Coating Diameter Tolerance (Uncolored)        | ±10 μm                     |
| Coating/Cladding Concentricity Error, maximum | 12 µm                      |
| Core Diameter                                 | 50 µm                      |
| Core Diameter Tolerance                       | ±2.5 µm                    |
| Core/Clad Offset, maximum                     | 1.5 µm                     |
| Proof Test                                    | 689.476 N/mm²   100000 psi |
|   |                            |

# Mechanical Specifications

| Macrobending, 15 mm Ø mandrel, 2 turns   | 0.20 dB @ 850 nm   0.50 dB @ 1,300 nm |
|--|---------------------------------------|
| Macrobending, 30 mm Ø mandrel, 2 turns   | 0.10 dB @ 850 nm   0.30 dB @ 1,300 nm |
| Macrobending, 75 mm Ø mandrel, 100 turns | 0.50 dB @ 1,300 nm   0.50 dB @ 850 nm |
| Coating Strip Force, maximum             | 8.9 N   2.001 lbf                     |
| Coating Strip Force, minimum             | 1.3 N   0.292 lbf                     |
| Dynamic Fatigue Parameter, minimum       | 18                                    |

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# CS-5K-MP

# **Optical Specifications**

| Numerical Aperture                  | 0.2                 |
|-------------------------------------|---------------------|
| Numerical Aperture Tolerance        | ±0.015              |
| Point Defects, maximum              | 0.15 dB             |
| Zero Dispersion Slope, maximum      | 0.105 ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum | 1316 nm             |
| Zero Dispersion Wavelength, minimum | 1297 nm             |

## Optical Specifications, Wavelength Specific

| 1 Gbps Ethernet Distance     | 1,110 m @ 850 nm   600 m @ 1,300 nm                           |
|------------------------------|---|
| 10 Gbps Ethernet Distance    | 550 m @ 850 nm  |
| Attenuation, maximum         | 1.00 dB/km @ 1,300 nm   3.00 dB/km @ 850 nm                   |
| Backscatter Coefficient      | -68.0 dB @ 850 nm   -75.7 dB @ 1,300 nm                       |
| Bandwidth, Laser, minimum    | 4,700 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm                 |
| Bandwidth, OFL, minimum      | 3,500 MHz-km @ 850 nm 🕴 500 MHz-km @ 1,300 nm                 |
| Differential Mode Delay      | 0.70 ps/m @ 850 nm  |
| Differential Mode Delay Note | Superior to ANSI/TIA TIA-492AAAF and IEC 60793-2-10 at 850 nm |
| Index of Refraction          | 1.479 @ 1,300 nm   1.483 @ 850 nm                             |
| Standards Compliance         | ANSI/TIA-492AAAF (OM4)   IEC 60793-2-10, A1 (OM4)             |

## **Environmental Specifications**

| Heat Aging, maximum                   | 0.20 dB/km @ 85 °C |
|---------------------------------------|--------------------|
| Temperature Dependence, maximum       | 0.1 dB/km          |
| Temperature Humidity Cycling, maximum | 0.2 dB/km          |
| Water Immersion, maximum              | 0.20 dB/km @ 23 °C |

#### Regulatory Compliance/Certifications

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

### \* Footnotes

| 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) |

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up to 95% relative humidity

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