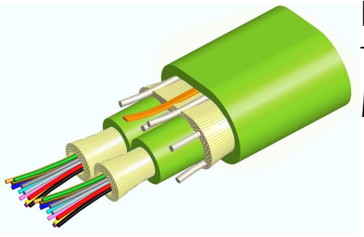
# 760253107 | N-016-MP-5G-F08LM/20T/B2



Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser MPO Trunk, 16 fiber with 8 fiber 2.0mm subunits, Gel-free, Multimode OM5, Meters jacket marking, Lime green jacket color, B2ca flame rating

## Product Classification

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

## General Specifications

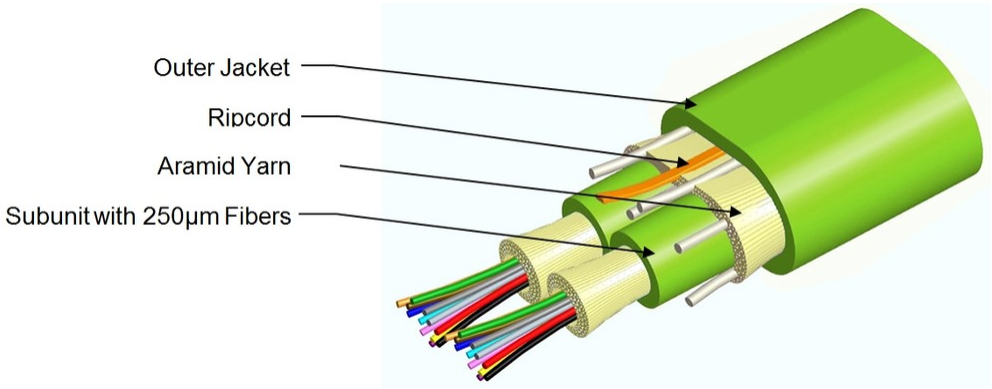
| | |
|---|---|
| **Cable Type** | MPO trunk cable |
| **Construction Type** | Non-armored |
| **Subunit Type** | Gel-free |
| **Jacket Color** | Lime green |
| **Jacket Marking** | Feet |
| **Subunit, quantity** | 2 |
| **Fibers per Subunit, quantity** | 8 |
| **Total Fiber Count** | 16 |

## Dimensions

| | |
|---|---|
| **Height Over Jacket** | 5.4 mm \| 0.213 in |
| **Width Over Jacket** | 7.4 mm \| 0.291 in |
| **Buffer Tube/Subunit Diameter** | 2 mm \| 0.079 in |

## Representative Image

# 760253107 | N-016-MP-5G-F08LM/20T/B2




## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 81 mm \| 3.189 in |
| **Minimum Bend Radius, unloaded** | 54 mm \| 2.126 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** | 25 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** | 437 m \| 1,433.727 ft |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | OM5, LazrSPEED® wideband |

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | 0 °C to +50 °C (+32 °F to +122 °F) |
| **Operating Temperature** | 0 °C to +60 °C (+32 °F to +140 °F) |
| **Storage Temperature** | -40 °C to +70 °C (-40 °F to +158 °F) |

| | |
|---|---|
| **Cable Qualification Standards** | ANSI/ICEA S-83-596 \| Telcordia GR-409 |
| **EN50575 CPR Cable EuroClass Fire Performance** | B2ca |
| **EN50575 CPR Cable EuroClass Smoke Rating** | s1a |
| **EN50575 CPR Cable EuroClass Droplets Rating** | d0 |
| **EN50575 CPR Cable EuroClass Acidity Rating** | a1 |
| **Environmental Space** | Low Smoke Zero Halogen (LSZH) |
| **Flame Test Method** | IEC 60332-3 \| IEC 60754-2 \| IEC 61034-2 |

## Environmental Test Specifications

| | |
|---|---|
| **Low High Bend** | 0 °C to +50 °C (+32 °F to +122 °F) |
| **Low High Bend Test Method** | FOTP-37 \| IEC 60794-1 E11 |
| **Temperature Cycle** | 0 °C to +60 °C (+32 °F to +140 °F) |
| **Temperature Cycle Test Method** | FOTP-3 \| IEC 60794-1 F1 |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 46.7 kg/km \| 31.381 lb/kft |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CHINA-ROHS | Below maximum concentration value |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

## Included Products

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

## * Footnotes

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

# LazrSPEED®

LazrSPEED® OM5 WideBand Multimode Fiber

## Product Classification

| | |
|---|---|
| **Portfolio** | CommScope® |
| **Product Type** | Optical fiber |

## General Specifications

| | |
|---|---|
| **Cladding Diameter** | 125 µm |
| **Cladding Diameter Tolerance** | ±5 µm |
| **Cladding Non-Circularity, maximum** | 0.7 % |
| **Coating Diameter (Colored)** | 254 µm |
| **Coating Diameter (Uncolored)** | 242 µm |
| **Coating Diameter Tolerance (Colored)** | ±7 µm |
| **Coating Diameter Tolerance (Uncolored)** | ±5 µm |
| **Coating/Cladding Concentricity Error, maximum** | 12 µm |
| **Core Diameter** | 50 µm |
| **Core Diameter Tolerance** | ±2.5 µm |
| **Core/Clad Offset, maximum** | 1 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** | 4.5 N \| 1.012 lbf |
| **Coating Strip Force, minimum** | 0.9 N \| 0.202 lbf |
| **Dynamic Fatigue Parameter, minimum** | 18 |

## Optical Specifications

| | |
|---|---|
| **Numerical Aperture** | 0.2 |

| | |
|---|---|
| **Numerical Aperture Tolerance** | ±0.010 |
| **Point Defects, maximum** | 0.15 dB |
| **Zero Dispersion Slope, maximum (OM5)** | -412/(840(1-(λ0/840)^4)) ps/[km-nm-nm] |
| **Zero Dispersion Wavelength, maximum** | 1328 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 \| 2.20 dB/km @ 953 nm \| 3.00 dB/km @ 850 nm |
| **Bandwidth, Laser, minimum** | 2,600 MHz-km @ 953 nm \| 4,700 MHz-km @ 850 nm \| 500 MHz-km @ 1,300 nm |
| **Bandwidth, OFL, minimum** | 1,950 MHz-km @ 953 nm \| 3,500 MHz-km @ 850 nm \| 500 MHz-km @ 1,300 nm |
| **Index of Refraction** | 1.478 @ 1,300 nm \| 1.483 @ 850 nm |
| **Standards Compliance** | ANSI/TIA-492AAAF (OM5) \| ANSI/TIA-568.3 (OM5) \| IEC 60793-2-10, A1 (OM5) \| ISO/IEC 11801-1 cabled optical fiber performance category OM5 |

## Environmental Specifications

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

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| 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) up to 95% relative humidity |