

# P-024-MP-5M-F36

Fiber indoor cable, LazrSPEED® Plenum MPO Light Duty for Patchcords, 24 fiber, Multimode OM2+, Feet jacket marking

## Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   Latin America   Middle East/Africa   North America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber indoor cable  |
| Product Series        | P-MP  |

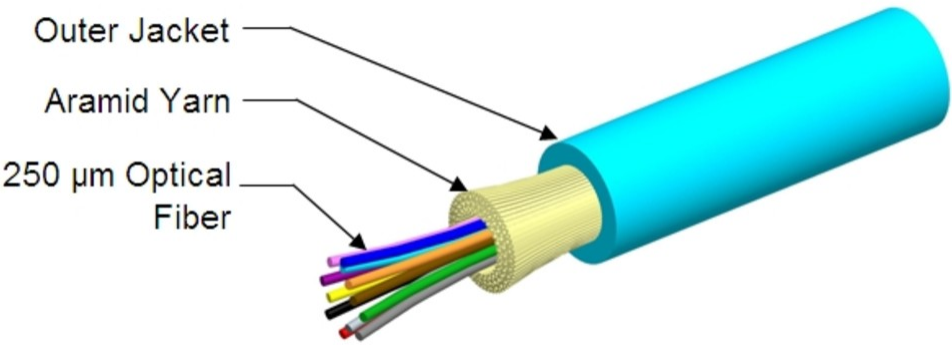
## General Specifications

|                   |                 |
|-------------------|-----------------|
| Cable Type        | MPO trunk cable |
| Construction Type | Non-armored     |
| Subunit Type      | Gel-free        |
| Jacket Marking    | Feet            |
| Total Fiber Count | 24              |

## Dimensions

|                      |                   |
|----------------------|-------------------|
| Diameter Over Jacket | 3.6 mm   0.142 in |
|----------------------|-------------------|

## Representative Image



## Mechanical Specifications

|                             |                  |
|-----------------------------|------------------|
| Minimum Bend Radius, loaded | 54 mm   2.126 in |
|-----------------------------|------------------|

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|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded     | 29 mm   1.142 in                      |
| Tensile Load, long term, maximum  | 120 N   26.977 lbf                    |
| Tensile Load, short term, maximum | 400 N   89.924 lbf                    |
| Compression                       | 4 N/mm   22.841 lb/in                 |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 300 cycles                            |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 0.74 N-m   6.55 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 | OM2+, LazrSPEED® 150   OM2+, LazrSPEED® 150 |
|------------|---|

## Environmental Specifications

|                               |                                       |
|-------------------------------|---------------------------------------|
| Installation temperature      | 0 °C to +70 °C (+32 °F to +158 °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)  |
| Cable Qualification Standards | ANSI/ICEA S-83-596   Telcordia GR-409 |
| Environmental Space           | Plenum                                |
| Flame Test Listing            | NEC OFNP (ETL) and c(ETL)             |
| Flame Test Method             | NFPA 262                              |

## Environmental Test Specifications

|                           |                                    |
|---------------------------|------------------------------------|
| Heat Age                  | 0 °C to +85 °C (+32 °F to +185 °F) |
| Heat Age Test Method      | IEC 60794-1 F9                     |
| Low High Bend             | 0 °C to +70 °C (+32 °F to +158 °F) |
| Low High Bend Test Method | FOTP-37   IEC 60794-1 E11          |
| Temperature Cycle         | 0 °C to +70 °C (+32 °F to +158 °F) |

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**Temperature Cycle Test Method** FOTP-3 | IEC 60794-1 F1

## Packaging and Weights

**Cable weight** 12 kg/km | 8.064 lb/kft

## Regulatory Compliance/Certifications

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

## Included Products

|          |   |  |
|----------|---|--|
| CS-5M-MP | – | LazrSPEED® 150 OM2+ Bend-Insensitive Multimode Fiber |
|----------|---|--|

## \* Footnotes

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

LazrSPEED® 150

LazrSPEED® 150 OM2+ Bend-Insensitive 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             | 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 Tensile Stress                          | 100,000 psi (0.69 GPa) |

## 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 |
| 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                                    |

## Optical Specifications

|                              |        |
|------------------------------|--------|
| Numerical Aperture           | 0.2    |
| Numerical Aperture Tolerance | ±0.015 |

# CS-5M-MP

|                                     |                     |
|-------------------------------------|---------------------|
| 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  | 600 m @ 1,300 nm   800 m @ 850 nm           |
| 10 Gbps Ethernet Distance | 150 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 | 500 MHz-km @ 1,300 nm   950 MHz-km @ 850 nm |
| Bandwidth, OFL, minimum   | 500 MHz-km @ 1,300 nm   700 MHz-km @ 850 nm |
| Differential Mode Delay   | 0.70 ps/m @ 850 nm   0.88 ps/m @ 1,300 nm   |
| Index of Refraction       | 1.479 @ 1,300 nm   1.483 @ 850 nm           |
| Standards Compliance      | TIA-492AAAB (OM2+)                          |

## 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

| 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 |