

760230334 | N-144-MZ-5G-F12LM



Fiber indoor cable, LazrSPEED® Riser/LSZH rated, MPO Trunk, interlocking aluminum armored, Multimode OM5, 144 fiber multi-unit with 12 fiber subunits, Feet jacket marking, Lime-green jacket color

Product Classification

| | |
|-----------------------|---|
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Product Series | N-MZ |

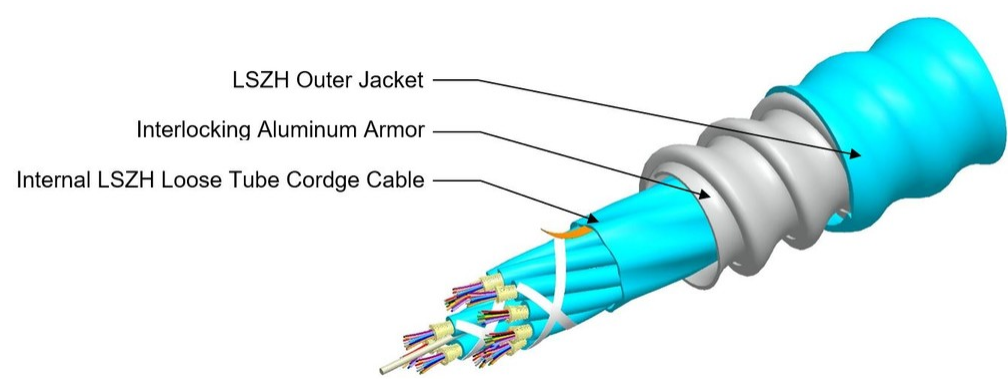
General Specifications

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|------------------------------|-----------------------|
| Armor Type | Interlocking aluminum |
| Cable Type | MPO trunk cable |
| Construction Type | Armored |
| Subunit Type | Gel-free |
| Jacket Color | Lime green |
| Jacket Marking | Feet |
| Subunit, quantity | 12 |
| Fibers per Subunit, quantity | 12 |
| Total Fiber Count | 144 |

Dimensions

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|------------------------------|---------------------|
| Buffer Tube/Subunit Diameter | 3 mm 0.118 in |
| Diameter Over Armor | 20.96 mm 0.825 in |
| Diameter Over Jacket | 23 mm 0.906 in |

Representative Image



Mechanical Specifications

| | |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded | 345 mm 13.583 in |
| Minimum Bend Radius, unloaded | 230 mm 9.055 in |
| Tensile Load, long term, maximum | 400 N 89.924 lbf |
| Tensile Load, short term, maximum | 1335 N 300.12 lbf |
| Compression | 85 N/mm 485.363 lb/in |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 |
| Flex | 300 cycles |
| Flex Test Method | FOTP-104 IEC 60794-1 E6 |
| Impact | 35 N-m 309.776 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 | 112 m 367.454 ft |

Optical Specifications

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

Environmental Specifications

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|--------------------------|--------------------------------------|
| Installation temperature | -20 °C to +60 °C (-4 °F to +140 °F) |
| Operating Temperature | -20 °C to +70 °C (-4 °F to +158 °F) |
| Storage Temperature | -40 °C to +70 °C (-40 °F to +158 °F) |

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|-------------------------------|---|
| Cable Qualification Standards | ANSI/ICEA S-83-596 Telcordia GR-409 |
| Environmental Space | Low Smoke Zero Halogen (LSZH) Riser |
| Flame Test Listing | NEC OFCR-ST1 (ETL) and c(ETL) |
| Flame Test Method | IEC 60332-3 IEC 60754-2 IEC 61034-2 UL 1666 UL 1685 |

Environmental Test Specifications

| | |
|-------------------------------|-------------------------------------|
| Heat Age | -20 °C to +85 °C (-4 °F to +185 °F) |
| Heat Age Test Method | IEC 60794-1 F9 |
| Low High Bend | -20 °C to +70 °C (-4 °F to +158 °F) |
| Low High Bend Test Method | FOTP-37 IEC 60794-1 E11 |
| Temperature Cycle | -20 °C to +70 °C (-4 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3 IEC 60794-1 F1 |

Packaging and Weights

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|--------------|----------------------------|
| Cable weight | 366 kg/km 245.941 lb/kft |
|--------------|----------------------------|

Regulatory Compliance/Certifications

| Agency | Classification |
|---------------|--|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |



Included Products

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

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| Operating Temperature | Specification applicable to non-terminated bulk fiber cable |
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LazrSPEED®

LazrSPEED® OM5 WideBand Multimode Fiber

Product Classification

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

General Specifications

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|---|------------------------|
| 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 Tensile Stress | 100,000 psi (0.69 GPa) |

Mechanical Specifications

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| 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

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

CS-5G-MP

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|--------------------------------------|--|
| 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

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|---------------------------|--|
| 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

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|---------------------------------------|--------------------|
| 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 |