

Base Product



Ultra Low Loss (ULL) OM4 MPO12 UPC (pinned) to Unconnectorized Fiber Trunk Cable Assembly, 36-Fiber, Armored Indoor Dual Rated (OFNR /LSZH)

Product Classification

|                       |  |
|-----------------------|--|
| Regional Availability | Asia   Australia/New Zealand   China   Europe   India   Latin America   Middle East/Africa   North America   |
| Portfolio             | CommScope®   |
| Product Type          | Fiber trunk cable assembly   |
| Product Brand         | PropeI   SYSTIMAX ULL  |
| Ordering Note         | For additional jacket colors, please contact a CommScope Sales Representative   For lengths greater than 999 ft (304 m), orders must be in meters   Minimum length may vary based on cable configuration |

General Specifications

|                              |                         |
|------------------------------|-------------------------|
| Connector A, quantity        | 3                       |
| Color, boot A                | Black                   |
| Color, connector A           | Aqua                    |
| Connector B, quantity        | 0                       |
| Construction Type            | Armored   Stranded      |
| Furcation Color              | Aqua                    |
| Interface, Connector A       | MPO-12/UPC Male         |
| Interface, Connector B       | Unterminated            |
| Jacket Color                 | Aqua                    |
| Polarity                     | Method B Enhanced (ULL) |
| Fibers per Subunit, quantity | 12                      |
| Total Fibers, quantity       | 36                      |

Dimensions

|                                  |          |
|----------------------------------|----------|
| Breakout Length                  | 22 in    |
| Cable Assembly Length Range (m)  | 3 – 305  |
| Cable Assembly Length Range (ft) | 10 – 999 |

Ordering Tree



Mechanical Specifications

**Cable Retention Strength, maximum** 11.24 lb @ 0 ° | 4.40 lb @ 90 °

Optical Specifications

**Fiber Mode** Multimode

**Fiber Type** OM4, LazrSPEED®

Environmental Specifications

**Operating Temperature** -10 °C to +60 °C (+14 °F to +140 °F)

**EN50575 CPR Cable EuroClass Fire Performance** Dca

**Environmental Space** Dual Rated LSZH/Riser | Indoor

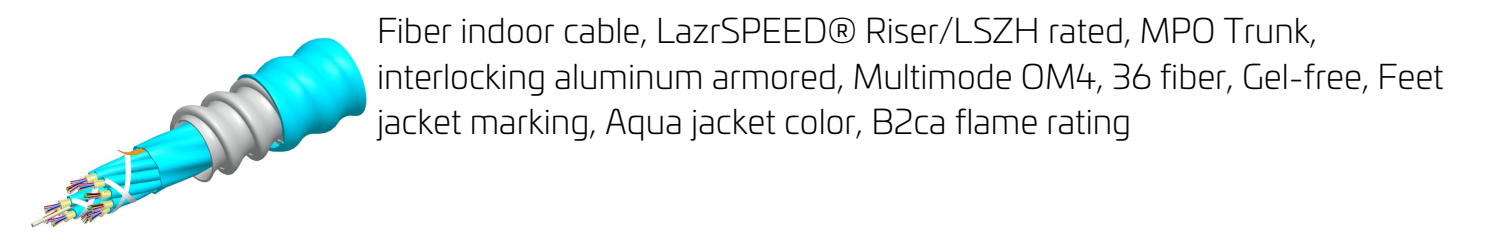
## Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| ANATEL        | Compliant  |
| CHINA-ROHS    | Above maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system   |
| REACH-SVHC    | Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |



## Included Products

|                          |   |  |
|--------------------------|---|--|
| 760249673                | – | Fiber indoor cable, LazrSPEED® Riser/LSZH rated, MPO Trunk, interlocking aluminum armored,   |
| N-036-MZ-5K-F12AQ/20T/B2 |   | Multimode OM4, 36 fiber, Gel-free, Feet jacket marking, Aqua jacket color, B2ca flame rating |
| 860659006                | – | MP012, ULL, MALE, OM3/4, AQUA, 2MM   |



## Product Classification

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

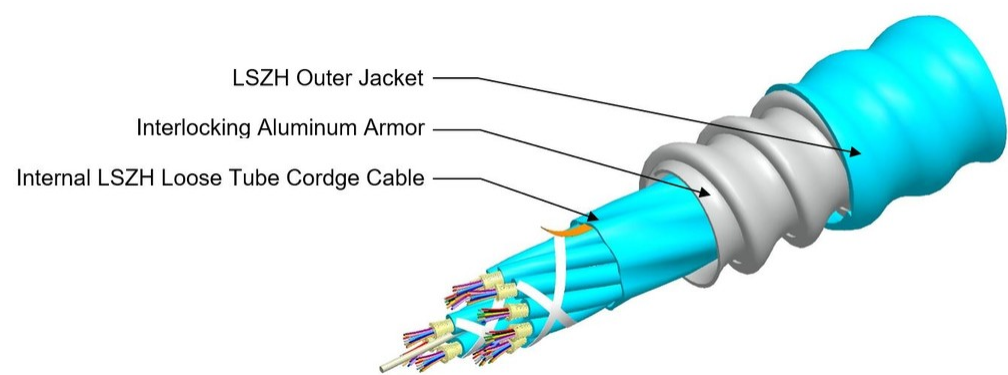
## General Specifications

|                              |                       |
|------------------------------|-----------------------|
| Armor Type                   | Interlocking aluminum |
| Cable Type                   | MPO trunk cable       |
| Construction Type            | Armored               |
| Subunit Type                 | Gel-free              |
| Filler, quantity             | 1                     |
| Jacket Color                 | Aqua                  |
| Jacket Marking               | Feet                  |
| Subunit, quantity            | 3                     |
| Fibers per Subunit, quantity | 12                    |
| Total Fiber Count            | 36                    |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2 mm   0.079 in    |
| Diameter Over Armor          | 13.3 mm   0.524 in |
| Diameter Over Jacket         | 15.4 mm   0.606 in |

## Representative Image



## Mechanical Specifications

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, loaded       | 231 mm   9.094 in                     |
| Minimum Bend Radius, unloaded     | 154 mm   6.063 in                     |
| Tensile Load, long term, maximum  | 200 N   44.962 lbf                    |
| Tensile Load, short term, maximum | 667 N   149.948 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            | 96 m   314.961 ft                     |

## Optical Specifications

|            |                     |
|------------|---------------------|
| Fiber Type | OM4, LazrSPEED® 550 |
|------------|---------------------|

## 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) |

# 760249673 | N-036-MZ-5K-F12AQ/20T/B2

|  |   |
|--|---|
| 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  | d1  |
| EN50575 CPR Cable EuroClass Acidity Rating   | a1  |
| 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

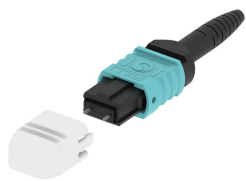
|                               |                                    |
|-------------------------------|------------------------------------|
| Heat Age                      | 0 °C to +85 °C (+32 °F to +185 °F) |
| Heat Age Test Method          | IEC 60794-1 F9                     |
| Low High Bend                 | 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 | 213 kg/km   143.129 lb/kft |
|--------------|----------------------------|

## \* Footnotes

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



MPO12, ULL, MALE, OM3/4, AQUA, 2MM

Product Classification

|                       |   |
|-----------------------|---|
| Regional Availability | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| Portfolio             | CommScope®  |
| Product Type          | Fiber connector   |
| Product Brand         | LazrSPEED®  |

General Specifications

|                   |              |
|-------------------|--------------|
| Color             | Aqua         |
| Color, boot       | Black        |
| Ferrule Geometry  | Flat         |
| Interface         | MPO/UPC Male |
| Interface Feature | Pinned       |
| Total Fiber Count | 12           |

Dimensions

|                           |                    |
|---------------------------|--------------------|
| Length                    | 60.1 mm   2.366 in |
| Compatible Cable Diameter | 2 mm   0.079 in    |

Material Specifications

|                  |         |
|------------------|---------|
| Ferrule Material | Polymer |
|------------------|---------|

Mechanical Specifications

|                                   |                |
|-----------------------------------|----------------|
| Cable Retention Strength, maximum | 11.24 lb @ 0 ° |
|-----------------------------------|----------------|

Optical Specifications

|                               |                                   |
|-------------------------------|-----------------------------------|
| Fiber Mode                    | Singlemode                        |
| Fiber Type                    | OM3, LazrSPEED®   OM4, LazrSPEED® |
| Insertion Loss Change, mating | 0.2 dB                            |
| Optical Components Standard   | ANSI/TIA-568-C.3                  |

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|                         |        |
|-------------------------|--------|
| Insertion Loss, maximum | 0.2 dB |
| Return Loss, minimum    | 27 dB  |

Packaging and Weights

|                    |   |
|--------------------|---|
| Packaging quantity | 1 |
|--------------------|---|

\* Footnotes

|                               |  |
|-------------------------------|--|
| Insertion Loss Change, mating | TIA-568: Maximum insertion loss change after 500 matings |
|-------------------------------|--|