

# FRVMXMXGD

## Base Product



OM5 MPO (Pinned) to MPO (Pinned), InstaPATCH® 360 Array Cord, 12-Fiber, Low Smoke Zero Halogen

- LazrSPEED® WideBand extends the capability of OM4 across enough spectrum to support at least four low-cost wavelengths

## Product Classification

|                              |  |
|------------------------------|--|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   Europe   Latin America   Middle East /Africa   North America  |
| <b>Portfolio</b>             | CommScope®   |
| <b>Product Type</b>          | Fiber array cable assembly   |
| <b>Product Brand</b>         | SYSTIMAX InstaPATCH® 360   |
| <b>Ordering Note</b>         | For additional jacket colors, please contact a CommScope Sales Representative   Minimum length may vary based on cable configuration |

## General Specifications

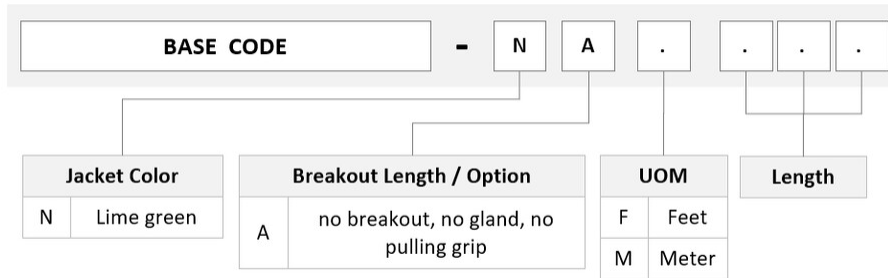
|                                     |                 |
|-------------------------------------|-----------------|
| <b>Color, boot A</b>                | Black           |
| <b>Color, connector A</b>           | Lime green      |
| <b>Color, boot B</b>                | Black           |
| <b>Color, connector B</b>           | Lime green      |
| <b>Construction Type</b>            | Stranded        |
| <b>Furcation Color</b>              | Lime green      |
| <b>Interface, Connector A</b>       | MPO-12/UPC Male |
| <b>Interface, Connector B</b>       | MPO-12/UPC Male |
| <b>Jacket Color</b>                 | Lime green      |
| <b>Polarity</b>                     | Method B (LL)   |
| <b>Fibers per Subunit, quantity</b> | 12              |
| <b>Total Fibers, quantity</b>       | 12              |

## Dimensions

|   |         |
|---|---------|
| <b>Cable Assembly Length Range (m)</b>  | 1 – 305 |
| <b>Cable Assembly Length Range (ft)</b> | 1 – 999 |

# FRVMXXMGD

## Ordering Tree



## Mechanical Specifications

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

## Optical Specifications

**Fiber Mode** Multimode

**Fiber Type** OM5, LazrSPEED®

## Environmental Specifications

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

**Environmental Space** Indoor | Low Smoke Zero Halogen (LSZH)

## Regulatory Compliance/Certifications

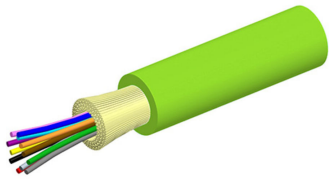
| Agency        | Classification   |
|---------------|--|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## Included Products

- |                                  |  |
|----------------------------------|--|
| 760229039<br>N-012-MP-5G-F30LM/D | - Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser Light Duty for MPO Patchcords, 12 fiber, Multimode OM5, Gel-free, Feet jacket marking, Lime green jacket color, Dca Flame rating |
| 860647049                        | - MPO12, LOW LOSS, MALE, OM5, LIME, 3mm  |

# 760229039 | N-012-MP-5G-F30LM/D

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Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser Light Duty for MPO Patchcords, 12 fiber, Multimode OM5, Gel-free, Feet jacket marking, Lime green jacket color, Dca Flame rating

## Product Classification

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

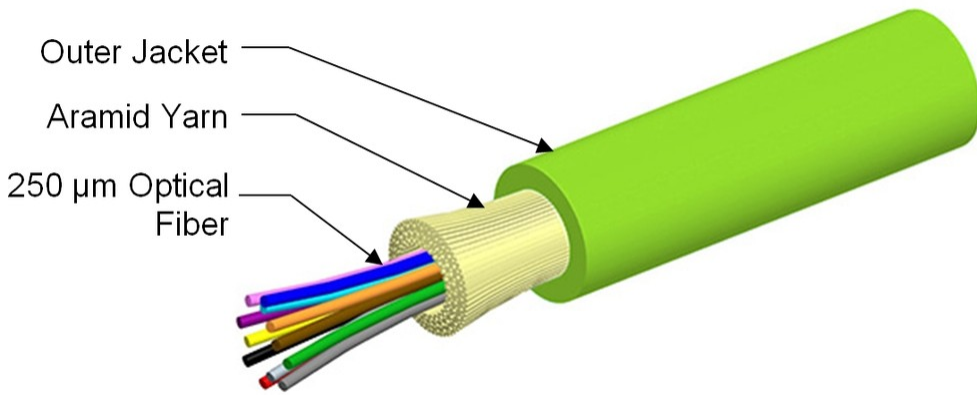
## General Specifications

|                          |                 |
|--------------------------|-----------------|
| <b>Cable Type</b>        | MPO trunk cable |
| <b>Construction Type</b> | Non-armored     |
| <b>Subunit Type</b>      | Gel-free        |
| <b>Jacket Color</b>      | Lime green      |
| <b>Jacket Marking</b>    | Feet            |
| <b>Total Fiber Count</b> | 12              |

## Dimensions

|                             |                 |
|-----------------------------|-----------------|
| <b>Diameter Over Jacket</b> | 3 mm   0.118 in |
|-----------------------------|-----------------|

## Representative Image



## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 45 mm   1.772 in                      |
| <b>Minimum Bend Radius, unloaded</b>     | 24 mm   0.945 in                      |
| <b>Tensile Load, long term, maximum</b>  | 100 N   22.481 lbf                    |
| <b>Tensile Load, short term, maximum</b> | 334 N   75.086 lbf                    |
| <b>Compression</b>                       | 4 N/mm   22.841 lb/in                 |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 300 cycles                            |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 0.74 N-m   6.55 in lb                 |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 500 m   1,640.42 ft                   |

## Optical Specifications

|                   |   |
|-------------------|---|
| <b>Fiber Type</b> | OM5, LazrSPEED® wideband   OM5, LazrSPEED® wideband |
|-------------------|---|

## Environmental Specifications

|                                 |                                    |
|---------------------------------|------------------------------------|
| <b>Installation temperature</b> | 0 °C to +60 °C (+32 °F to +140 °F) |
| <b>Operating Temperature</b>    | 0 °C to +70 °C (+32 °F to +158 °F) |

# 760229039 | N-012-MP-5G-F30LM/D

|   |   |
|---|---|
| <b>Storage Temperature</b>                          | -40 °C to +70 °C (-40 °F to +158 °F)                        |
| <b>Cable Qualification Standards</b>                | ANSI/ICEA S-83-596   Telcordia GR-409                       |
| <b>EN50575 CPR Cable EuroClass Fire Performance</b> | Dca   |
| <b>EN50575 CPR Cable EuroClass Smoke Rating</b>     | s1a   |
| <b>EN50575 CPR Cable EuroClass Droplets Rating</b>  | d1  |
| <b>EN50575 CPR Cable EuroClass Acidity Rating</b>   | a1  |
| <b>Environmental Space</b>                          | Low Smoke Zero Halogen (LSZH)   Riser                       |
| <b>Flame Test Listing</b>                           | NEC OFNR-ST1 (ETL) and c(ETL)                               |
| <b>Flame Test Method</b>                            | IEC 60332-3   IEC 60754-2   IEC 61034-2   UL 1666   UL 1685 |

## Environmental Test Specifications

|                                      |                                    |
|--------------------------------------|------------------------------------|
| <b>Heat Age</b>                      | 0 °C to +85 °C (+32 °F to +185 °F) |
| <b>Heat Age Test Method</b>          | IEC 60794-1 F9                     |
| <b>Low High Bend</b>                 | 0 °C to +70 °C (+32 °F to +158 °F) |
| <b>Low High Bend Test Method</b>     | FOTP-37   IEC 60794-1 E11          |
| <b>Temperature Cycle</b>             | 0 °C to +70 °C (+32 °F to +158 °F) |
| <b>Temperature Cycle Test Method</b> | FOTP-3   IEC 60794-1 F1            |

## Packaging and Weights

|                     |                          |
|---------------------|--------------------------|
| <b>Cable weight</b> | 8.5 kg/km   5.712 lb/kft |
|---------------------|--------------------------|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| CENELEC       | EN 50575 compliant, Declaration of Performance (DoP) available   |
| 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |

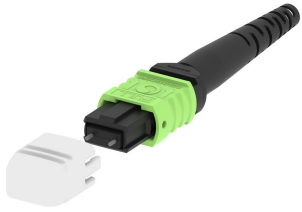


## \* Footnotes

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

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MPO12, LOW LOSS, MALE, OM5, LIME, 3mm

## Product Classification

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

## General Specifications

|                          |              |
|--------------------------|--------------|
| <b>Color</b>             | Lime green   |
| <b>Color, boot</b>       | Black        |
| <b>Ferrule Geometry</b>  | Flat         |
| <b>Interface</b>         | MPO/UPC Male |
| <b>Interface Feature</b> | Pinned       |
| <b>Total Fiber Count</b> | 12           |

## Dimensions

|                                  |                    |
|----------------------------------|--------------------|
| <b>Length</b>                    | 60.1 mm   2.366 in |
| <b>Compatible Cable Diameter</b> | 3 mm   0.118 in    |

## Material Specifications

|                         |         |
|-------------------------|---------|
| <b>Ferrule Material</b> | Polymer |
|-------------------------|---------|

## Mechanical Specifications

|  |                |
|--|----------------|
| <b>Cable Retention Strength, maximum</b> | 11.24 lb @ 0 ° |
|--|----------------|

## Optical Specifications

|   |                  |
|---|------------------|
| <b>Fiber Mode</b>                         | Multimode        |
| <b>Fiber Type</b>                         | OM5              |
| <b>Insertion Loss Change, mating</b>      | 0.3 dB           |
| <b>Optical Components Standard</b>        | ANSI/TIA-568-C.3 |
| <b>Insertion Loss Change, temperature</b> | 0.3 dB           |

# 860647049

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**Insertion Loss, maximum** 0.27 dB

**Return Loss, minimum** 27 dB

## Packaging and Weights

**Packaging quantity** 1

## Regulatory Compliance/Certifications

### Agency

ISO 9001:2015

### Classification

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

## \* Footnotes

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

**Insertion Loss Change, temperature** Maximum insertion loss change from -10 °C to +60 °C (+14 °F to +140 °F)