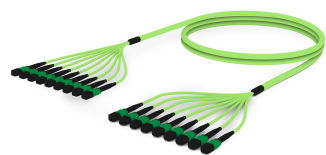


# UGVRZRZ8M

Base Product



Ultra Low Loss (ULL) OM5 MPO16 APC (Pinned) to MPO16 APC (Pinned), Fiber Trunk Cable Assembly, 144-Fiber, Plenum

## 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         | Propel   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        | 9                       |
| Color, boot A                | Black                   |
| Color, connector A           | Green                   |
| Connector B, quantity        | 9                       |
| Color, boot B                | Black                   |
| Color, connector B           | Green                   |
| Construction Type            | Stranded                |
| Furcation Color              | Lime green              |
| Interface, Connector A       | MPO-16/APC Male         |
| Interface, Connector B       | MPO-16/APC Male         |
| Jacket Color                 | Lime green              |
| Polarity                     | Method B Enhanced (ULL) |
| Fibers per Subunit, quantity | 16                      |
| Total Fibers, quantity       | 144                     |

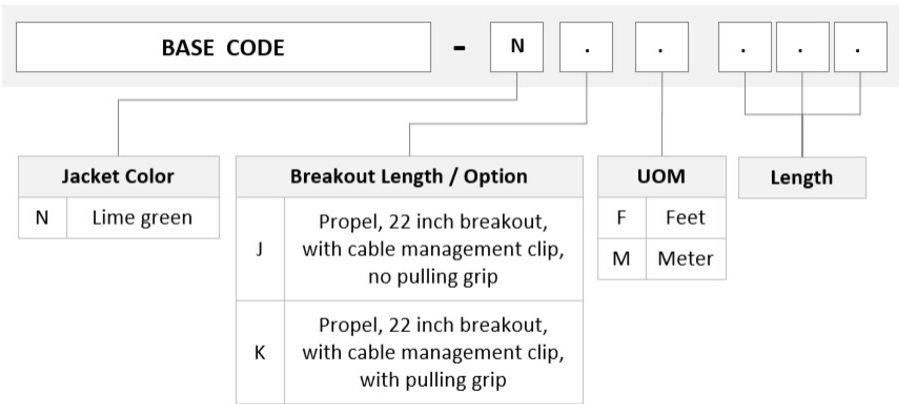
## Dimensions

|                 |       |
|-----------------|-------|
| Breakout Length | 22 in |
|-----------------|-------|

# UGVRZRZ8M

|                                  |          |
|----------------------------------|----------|
| 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 | OM5, LazrSPEED® |

## Environmental Specifications

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | -10 °C to +60 °C (+14 °F to +140 °F) |
| Environmental Space   | Indoor   Plenum                      |

## Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| CHINA-ROHS    | Above maximum concentration value  |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |

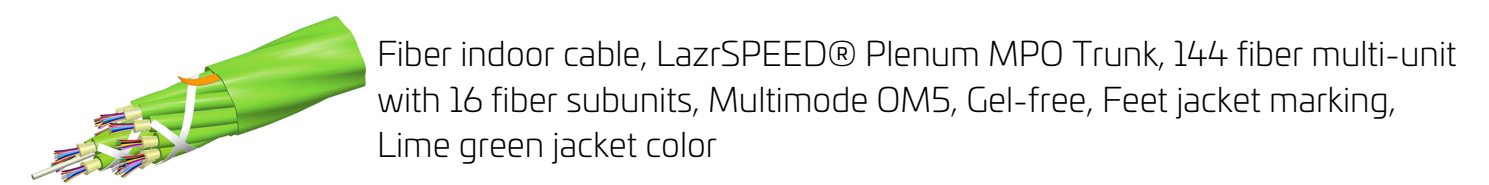


# UGVRZRZ8M

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## Included Products

- |                   |   |   |
|-------------------|---|---|
| 760251012         | – | Fiber indoor cable, LazrSPEED® Plenum MPO Trunk, 144 fiber multi-unit with 16 fiber subunits, Multimode OM5, Gel-free, Feet jacket marking, Lime green jacket color |
| P-144-MP-5G-F16LM |   |   |
| 860659158         | – | Fiber Optic Connector Kit, multimode, OM3/OM4, MPO-16/APC, ULL, pinned, green, for 3 mm cable   |



## 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 Color                 | Lime green      |
| Jacket Marking               | Feet            |
| Subunit, quantity            | 9               |
| Fibers per Subunit, quantity | 16              |
| Total Fiber Count            | 144             |

## Dimensions

|                              |                    |
|------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 3 mm   0.118 in    |
| Diameter Over Jacket         | 13.4 mm   0.528 in |

## Mechanical Specifications

|                                   |                          |
|-----------------------------------|--------------------------|
| Minimum Bend Radius, loaded       | 202 mm   7.953 in        |
| Minimum Bend Radius, unloaded     | 134 mm   5.276 in        |
| Tensile Load, long term, maximum  | 400 N   89.924 lbf       |
| Tensile Load, short term, maximum | 1335 N   300.12 lbf      |
| Compression                       | 10 N/mm   57.101 lb/in   |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3 |

# 760251012 | P-144-MP-5G-F16LM

|                        |                                       |
|------------------------|---------------------------------------|
| 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 | 219 m   718.504 ft                    |

## Optical Specifications

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

## 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 130   NFPA 262                   |

## Environmental Test Specifications

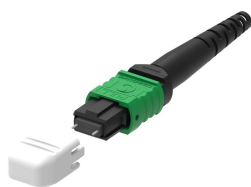
|                               |                                    |
|-------------------------------|------------------------------------|
| Heat Age                      | 0 °C to +85 °C (+32 °F to +185 °F) |
| Heat Age Test Method          | IEC 60794-1 F9                     |
| Low High Bend                 | 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) |
| Temperature Cycle Test Method | FOTP-3   IEC 60794-1 F1            |

## Packaging and Weights

|              |                            |
|--------------|----------------------------|
| Cable weight | 186 kg/km   124.986 lb/kft |
|--------------|----------------------------|

## \* Footnotes

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



Fiber Optic Connector Kit, multimode, OM3/OM4, MPO-16/APC, ULL, pinned, green, for 3 mm cable

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             | Green        |
| Color, boot       | Black        |
| Ferrule Geometry  | Angled       |
| Interface         | MPO/APC Male |
| Interface Feature | Pinned       |
| Total Fiber Count | 16           |

Dimensions

|                           |                    |
|---------------------------|--------------------|
| Length                    | 60.1 mm   2.366 in |
| Compatible Cable Diameter | 3 mm   0.118 in    |

Material Specifications

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

Mechanical Specifications

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

Optical Specifications

|                               |                  |
|-------------------------------|------------------|
| Fiber Mode                    | Multimode        |
| Fiber Type                    | OM3   OM4        |
| Insertion Loss Change, mating | 0.3 dB           |
| Optical Components Standard   | ANSI/TIA-568-C.3 |

|                                    |        |
|------------------------------------|--------|
| Insertion Loss Change, temperature | 0.3 dB |
| Insertion Loss, maximum            | 0.2 dB |

Packaging and Weights

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

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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



\* 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) |