# UKGMPMPDF

#### **Base Product**



### Ultra Low Loss (ULL) Singlemode, MPO12 Unpinned to MPO12 Unpinned, Fiber Trunk Cable Assembly, 24-Fiber, Indoor/Outdoor Armored, Low Smoke Zero Halogen/Riser

### Product Classification

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

vary based on cable configuration

### General Specifications

| Color, boot A                | Black                   |
|------------------------------|-------------------------|
| Color, connector A           | Green                   |
| Color, boot B                | Black                   |
| Color, connector B           | Green                   |
| Construction Type            | Armored   Stranded      |
| Furcation Color              | Yellow                  |
| Interface, Connector A       | MPO-12/APC Female       |
| Interface, Connector B       | MPO-12/APC Female       |
| Jacket Color                 | Black                   |
| Polarity                     | Method B Enhanced (ULL) |
| Fibers per Subunit, quantity | 12                      |
| Total Fibers, quantity       | 24                      |
|                              |                         |

#### Dimensions

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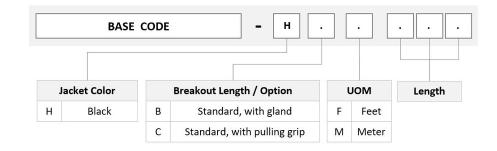
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# UKGMPMPDF

| Breakout Length                  | 33 in    |
|----------------------------------|----------|
| Cable Assembly Length Range (m)  | 3 – 999  |
| 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                        | Singlemode                      |
| Fiber Type                        | G.657.A2, TeraSPEED®            |

# Environmental Specifications

| Operating Temperature | -10 °C to +60 °C (+14 °F to +140 °F)   |  |
|-----------------------|--|--|
| Environmental Space   | Dual Rated LSZH/Riser   Indoor/Outdoor |  |

## Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| 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 www.commscope.com/ProductCompliance          |
| ROHS          | Compliant/Exempted   |
| UK-ROHS       | Compliant/Exempted   |



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# UKGMPMPDF

| Included Products              |   |   |
|--------------------------------|---|---|
| 760238841<br>Z-024-MZ-8G-F12BK | - | Fiber Indoor/Outdoor cable, Low Smoke Zero Halogen Riser MPO Trunk, interlocking aluminum armored, 24 fiber multi-unit with 12 fiber subunits, Singlemode G.657.A2, Feet jacket marking, Black jacket color |
| 860638318                      | - | MP012, ULTRA LOW LOSS, FEMALE, Singlemode, GREEN, 3mm   |

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# 760238841 | Z-024-MZ-8G-F12BK



Fiber Indoor/Outdoor cable, Low Smoke Zero Halogen Riser MPO Trunk, interlocking aluminum armored, 24 fiber multi-unit with 12 fiber subunits, Singlemode G.657.A2, Feet jacket marking, Black jacket color

#### Product Classification

| PortfolioCommScope@Product TypeFiber indoor/outdoor cableProduct Series2-MZGeneral SpecificationsInterlocking aluminumCable TypeInterlocking aluminumCable TypeMPO trunk cableConstruction TypeGel-freeSuburit Type2Jacket ColorBackJacket ColorFeetSubunit, quantity2Filers per Subunit, quantity12Total Fiber Cont12Fibers per Subunit, quantity2Jacket Marking12Fiber Sper Subunit, quantity3mm   0.118 inDimensionsSimm   0.205 inFiber Tube/Subunit Diameter158 mm   0.205 inDiameter Over Jacket17.9mm   0.705 in | Regional Availability        | Asia   Australia/New Zealand   EMEA   Latin America   North<br>America |
|---|------------------------------|--|
| Product Series2/MZProduct Series2/MZGeneral SpecificationsInterlocking aluminumArmor TypeInterlocking aluminumCable TypeMPO trunk cableConstruction TypeArmoredSubunit TypeGel-freeSubunit TypeSel-freeJacket ColorBlackJacket ColorFeetSubunit, quantity2Fibers per Subunit, quantity12Fibers per Subunit, quantity12Total Fiber Count24DimensionsSmm   0.118 inBuffer Tube/Subunit DiameterSmm   0.625 inI and the Count158 mm   0.625 in   | Portfolio                    | CommScope®   |
| General SpecificationsArmor TypeInterlocking aluminumCable TypeMPO trunk cableConstruction TypeArmoredSubunit TypeGel-freeFiller, quantity2Jacket ColorBlackJacket MarkingFeetSubunit, quantity12Fibers per Subunit, quantity2Total Fiber CountJ4DimensionsSum   0.118 inBuffer Tube/Subunit DiameterSum   0.625 inJacket MarkingSum   0.625 in   | Product Type                 | Fiber indoor/outdoor cable   |
| Armor TypeInterlocking aluminumCable TypeMPO trunk cableConstruction TypeArmoredSubunit TypeGel freeFiller, quantity2Jacket ColorBlackJacket MarkingPeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber Court34DimensionsSmm   0.118 inBuffer Tube/Subunt DiameterSmm   0.255 inBuffer Tube/Subunt Diameter158 smm   0.625 in   | Product Series               | Z-MZ   |
| Cable TypeMPO trunk cableConstruction TypeArmoredSubunit TypeGel-freeFiller, quantity2Jacket ColorBlackJacket MarkingFeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber CountJacket MarkingBuffer Tube/Subunit DiameterSmm   0.118 inDiameter Over Armor15.88 mm   0.625 in  | General Specifications       |  |
| Construction TypeArmoredSubunit TypeGel-freeFiller, quantity2Jacket ColorBlackJacket MarkingFeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber Court24DimensionsSmm   0.118 inBuffer Tube/Subunit Diameter15.88 mm   0.625 in  | Armor Type                   | Interlocking aluminum  |
| Suburit TypeGel-freeFiller, quantity2Jacket ColorBlackJacket MarkingFeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24DimensionsSum   0.118 inBuffer Tube/Subunit DiameterSamm   0.25 inNameter Over Armor15.88 mm   0.625 in  | Cable Type                   | MPO trunk cable  |
| Filler, quantity2Jacket ColorBlackJacket MarkingFeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24DimensionsSamm   0.118 inBuffer Tube/Subunit DiameterSamm   0.625 in   | Construction Type            | Armored  |
| Jacket ColorBlackJacket ColorBlackJacket MarkingFeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24DimensionsSumm   0.118 inBuffer Tube/Subunit DiameterSumm   0.25 inDiameter Over Armor15.88 mm   0.625 in  | Subunit Type                 | Gel-free   |
| Jacket MarkingFeetSubunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24DimensionsSimm   0.118 inBuffer Tube/Subunit Diameter3 mm   0.118 inDiameter Over Armor15.88 mm   0.625 in   | Filler, quantity             | 2  |
| Subunit, quantity2Fibers per Subunit, quantity12Total Fiber Count24Dimensions3mm   0.118 inBuffer Tube/Subunit Diameter3mm   0.625 in   | Jacket Color                 | Black  |
| Fibers per Subunit, quantity12Total Fiber Count24Dimensionssmm   0.118 inBuffer Tube/Subunit Diameter3 mm   0.118 inDiameter Over Armor15.88 mm   0.625 in  | Jacket Marking               | Feet   |
| Total Fiber Count24Dimensions3 mm   0.118 inBuffer Tube/Subunit Diameter3 mm   0.118 inDiameter Over Armor15.88 mm   0.625 in   | Subunit, quantity            | 2  |
| DimensionsBuffer Tube/Subunit Diameter3 mm   0.118 inDiameter Over Armor15.88 mm   0.625 in   | Fibers per Subunit, quantity | 12   |
| Buffer Tube/Subunit Diameter 3 mm   0.118 in   Diameter Over Armor 15.88 mm   0.625 in  | Total Fiber Count            | 24   |
| Diameter Over Armor   15.88 mm   0.625 in   | Dimensions                   |  |
|   | Buffer Tube/Subunit Diameter | 3 mm   0.118 in  |
| Diameter Over Jacket   17.9 mm   0.705 in   | Diameter Over Armor          | 15.88 mm   0.625 in  |
|   | Diameter Over Jacket         | 17.9 mm   0.705 in   |

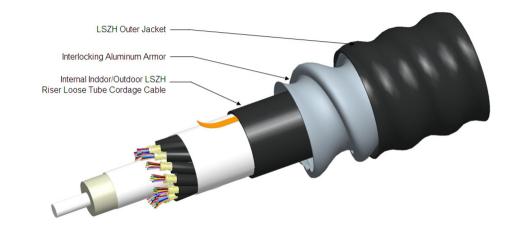
### Representative Image

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# 760238841 | Z-024-MZ-8G-F12BK



# Mechanical Specifications

| Minimum Bend Radius, loaded       | 269 mm   10.591 in                    |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded     | 179 mm   7.047 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            | 166 m   544.619 ft                    |
| Optical Specifications            |                                       |

Fiber Type

G.657.A2/B2 | G.657.A2/B2

### **Environmental Specifications**

#### Installation temperature

-30 °C to +60 °C (-22 °F to +140 °F)

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# 760238841 | Z-024-MZ-8G-F12BK

| Operating Temperature         | -40 °C to +70 °C (-40 °F to +158 °F)                        |
|-------------------------------|---|
| Storage Temperature           | -40 °C to +75 °C (-40 °F to +167 °F)                        |
| 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 |
| Jacket UV Resistance          | UV stabilized   |
|                               |   |

### **Environmental Test Specifications**

| Cable Freeze Test Method      | IEC 60794-1 F15                     |
|-------------------------------|-------------------------------------|
| 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

| Cable weight |  |
|--------------|--|
|--------------|--|

245 kg/km | 164.632 lb/kft

### Regulatory Compliance/Certifications

| Agency        | Classification   |
|---------------|--|
| 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 www.commscope.com/ProductCompliance          |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |
|               |  |

# \* Footnotes

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

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# 860638318



Product Classification

### MP012, ULTRA LOW LOSS, FEMALE, Singlemode, GREEN, 3mm

| Regional Availability             | Asia   Australia/New Zealand   EMEA   Latin America   North America |
|-----------------------------------|---|
| Portfolio                         | CommScope®  |
| Product Type                      | Fiber connector   |
| Product Brand                     | TeraSPEED®  |
| General Specifications            |   |
| Color                             | Green   |
| Color, boot                       | Black   |
| Ferrule Geometry                  | Angled  |
| Interface                         | MPO/APC Female  |
| Interface Feature                 | Unpinned  |
| Total Fiber Count                 | 12  |
| 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                        | Singlemode  |
| Fiber Type                        | G.652.D and G.657.A1, TeraSPEED®   OS2                              |
| Insertion Loss Change, mating     | 0.3 dB  |
| Optical Components Standard       | ANSI/TIA-568-C.3  |

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# 860638318

| Insertion Loss Change, temperature | 0.3 dB  |
|------------------------------------|---------|
| Insertion Loss, maximum            | 0.35 dB |
| Return Loss, minimum               | 65 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 www.commscope.com/ProductCompliance          |
| 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) |

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