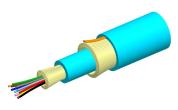
# 760160655 | P-012-MP-8W-F12BL



Fiber indoor cable, TeraSPEED® Plenum for MPO Trunks, 12 fiber, Singlemode G.652.D and G.657.A1, Feet jacket marking, Blue jacket color

### Product Classification

| Regional Availability        | Asia   Australia/New Zealand   Latin America   Middle East<br>/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                 | Blue  |
| Jacket Marking               | Feet  |
| Total Fiber Count            | 12  |
| Dimensions                   |   |
| Buffer Tube/Subunit Diameter | 3 mm   0.118 in   |
| Diameter Over Jacket         | 4.9 mm   0.193 in   |
|                              |   |

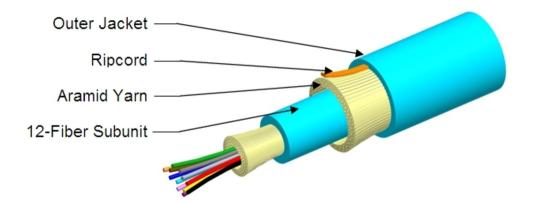
### Representative Image

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# 760160655 | P-012-MP-8W-F12BL



# Mechanical Specifications

| Minimum Bend Radius, loaded       | 74 mm   2.913 in                             |
|-----------------------------------|--|
| Minimum Bend Radius, unloaded     | 49 mm   1.929 in                             |
| Tensile Load, long term, maximum  | 200 N   44.962 lbf                           |
| Tensile Load, short term, maximum | 667 N   149.948 lbf                          |
| Compression                       | 10 N/mm   57.101 lb/in                       |
| Compression Test Method           | FOTP-41   IEC 60794-1 E3                     |
| 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            | 500 m   1,640.42 ft                          |
| Optical Specifications            |  |
| Fiber Type                        | G.652.D and G.657.A1, TeraSPEED®   OS2   OS2 |

#### **Environmental Specifications**

Installation temperature

0 °C to +70 °C (+32 °F to +158 °F)

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# 760160655 | P-012-MP-8W-F12BL

| 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) |  |
| emperature Cycle Test MethodFOTP-3   IEC 60794-1 F1 |                                    |  |

### Packaging and Weights

#### Cable weight

23 kg/km | 15.455 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

CS-8W-MP - TeraSPEED® OS2 Singlemode Fiber

## \* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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### TeraSPEED® OS2 Singlemode Fiber

# TeraSPEED®

### Product Classification

| Portfolio                                     | CommScope®                              |  |
|---|---|--|
| Product Type                                  | Optical fiber                           |  |
| General Specifications                        |   |  |
| Cladding Diameter                             | 125 µm                                  |  |
| Cladding Diameter Tolerance                   | ±0.7 μm                                 |  |
| Cladding Non-Circularity, maximum             | 0.7 %                                   |  |
| Coating Diameter (Colored)                    | 249 µm                                  |  |
| Coating Diameter (Uncolored)                  | 242 µm                                  |  |
| Coating Diameter Tolerance (Colored)          | ±13 μm                                  |  |
| Coating Diameter Tolerance (Uncolored)        | ±5 μm                                   |  |
| Coating/Cladding Concentricity Error, maximum | 12 µm                                   |  |
| Core Diameter                                 | 8.3 µm                                  |  |
| Core/Clad Offset, maximum                     | 0.5 μm                                  |  |
| Proof Test                                    | 689.476 N/mm²   100000 psi              |  |
| Dimensions                                    |   |  |
| Fiber Curl, minimum                           | 4 m   13.123 ft                         |  |
| Mechanical Specifications                     |   |  |
| Macrobending, 20 mm Ø mandrel, 1 turn         | 0.75 dB @ 1,550 nm   1.50 dB @ 1,625 nm |  |
| Macrobending, 30 mm Ø mandrel, 10 turns       | 0.25 dB @ 1,550 nm   1.00 dB @ 1,625 nm |  |
| Macrobending, 60 mm Ø mandrel, 100 turns      | 0.05 dB @ 1,550 nm   0.05 dB @ 1,625 nm |  |
| Coating Strip Force, maximum                  | 8.9 N   2.001 lbf                       |  |

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# <u>CS-8W-</u>MP

| Coating Strip Force, minimum                            | 1.3 N   0.292 lbf  |
|---|--|
| Dynamic Fatigue Parameter, minimum                      | 20   |
| Optical Specifications                                  |  |
| Cabled Cutoff Wavelength, maximum                       | 1260 nm  |
| Point Defects, maximum                                  | 0.1 dB   |
| Zero Dispersion Slope, maximum                          | 0.092 ps/[km-nm-nm]  |
| Zero Dispersion Wavelength, maximum                     | 1324 nm  |
| Zero Dispersion Wavelength, minimum                     | 1300 nm  |
| Optical Specifications, Wavelength Specific             |  |
| Attenuation, maximum                                    | 0.40 dB/km @ 1,310 nm   0.40 dB/km @ 1,385<br>nm   0.40 dB/km @ 1,490 nm   0.40 dB/km @ 1,550<br>nm   0.50 dB/km @ 1,270 nm   0.50 dB/km @ 1,575<br>nm |
| Backscatter Coefficient                                 | -79.6 dB @ 1,310 nm   -82.1 dB @ 1,550 nm  |
| Dispersion, maximum                                     | 18 ps(nm-km) at 1550 nm   3.5 ps(nm-km) from 1285<br>nm to 1330 nm at 1310 nm  |
| Index of Refraction                                     | 1.467 @ 1,310 nm   1.467 @ 1,385 nm   1.468 @ 1,550<br>nm  |
| Mode Field Diameter                                     | 10.4 μm @ 1,550 nm   9.2 μm @ 1,310 nm   9.6 μm @<br>1,385 nm  |
| Mode Field Diameter Tolerance                           | ±0.4 μm @ 1310 nm   ±0.5 μm @ 1550 nm   ±0.6 μm<br>@ 1385 nm   |
| Polarization Mode Dispersion Link Design Value, maximum | 0.04 ps/sqrt(km)   |
| Standards Compliance                                    | ITU-T G.652.D   ITU-T G.657.A1   TIA-492CAAB (OS2)   |
|   |  |
| Environmental Specifications                            |  |

#### **Environmental Specifications**

| Heat Aging, maximum                   | 0.05 dB/km @ 85 °C |
|---------------------------------------|--------------------|
| Temperature Dependence, maximum       | 0.05 dB/km         |
| Temperature Humidity Cycling, maximum | 0.05 dB/km         |
| Water Immersion, maximum              | 0.05 dB/km @ 23 °C |

# Regulatory Compliance/Certifications

Agency

#### Classification

ISO 9001:2015

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

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## \* Footnotes

Temperature Dependence, maximumTemperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)Temperature Humidity Cycling, maximumTemperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)up to 95% relative humidity

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