Fiber indoor cable, TeraSPEED® Plenum MPO Trunk, interlocking aluminum armored with plenum jacket, Singlemode G.652.D and G.657.A, 36 fiber multi-unit with 12 fiber subunits, Feet cable marking

## Product Classification

| Regional Availability | Asia \| Australia/New Zealand /Africa | North America | Latin America \| Middle East |
| :---: | :---: | :---: |
| Portfolio | CommScope® |  |
| Product Type | Fiber indoor cable |  |
| Product Series | P-MZ |  |

## General Specifications

| Armor Type | Interlocking aluminum |
| :--- | :--- |
| Cable Type | MPO trunk cable |
| Construction Type | Armored |
| Fiber Type, quantity | 36 |
| Fibers per Subunit, quantity | 12 |
| Jacket Marking | Feet |
| Subunit Type | Gel-free |
| Subunit, quantity | 3 |
| Total Fiber Count | 36 |
| DimeחSiOחS | $3 \mathrm{~mm} \mathrm{\mid} 0.118 \mathrm{in}$ |
| Buffer Tube/Subunit Diameter | 15.88 mm |
| \| 0.625 in |  |
| Diameter Over Armor | 17.9 mm |
| Diameter Over Jacket | 0.705 in |

Representative Image

## P-036-MZ-8W-Fl2



## Mechanical Specifications

Minimum Bend Radius, loaded
Minimum Bend Radius, unloaded
Tensile Load, long term, maximum
Tensile Load, short term, maximum
Compression
Compression Test Method
Flex
Flex Test Method
Impact
Impact Test Method
Strain
Strain Test Method
Twist
Twist Test Method
Vertical Rise, maximum

## Optical Specifications

Fiber Type G.652.D and G.657.A1, TeraSPEED® | OS2 | OS2

## Environmental Specifications

Installation temperature

358 mm | 14.094 in
$251 \mathrm{~mm} \mid 9.882 \mathrm{in}$
400 N | 89.924 lbf
1335 N | 300.12 lbf
$85 \mathrm{~N} / \mathrm{mm}$ | $485.363 \mathrm{lb} / \mathrm{in}$
FOTP-41 | IEC 60794-1 E3
300 cycles
FOTP-104 | IEC 60794-1 E6
$35 \mathrm{~N}-\mathrm{m} \mid 309.776 \mathrm{in} \mathrm{lb}$
FOTP-25 | IEC 60794-1 E4
See long and short term tensile loads
FOTP-33 | IEC 60794-1 E1
10 cycles
FOTP-85 | IEC 60794-1 E7
159 m | 521.654 ft

Operating Temperature

## Storage Temperature

Cable Qualification Standards
Environmental Space
Flame Test Listing
Flame Test Method
Environmental Test Specifications

## Heat Age

Heat Age Test Method

## Low High Bend

## Low High Bend Test Method

Temperature Cycle
Temperature Cycle Test Method

## Packaging and Weights

Cable weight

## $0^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(+32^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$

$-40^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(-40^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
ANSI/ICEA S-83-596 | Telcordia GR-409
Plenum
NEC OFCP (ETL) and c(ETL)
NFPA 262


IEC 60794-1 F9
$0^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(+32^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
FOTP-37 | IEC 60794-1 E11
$0^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}\left(+32^{\circ} \mathrm{F}\right.$ to $\left.+158^{\circ} \mathrm{F}\right)$
FOTP-3 | IEC 60794-1 F1

Regulatory Compliance/Certifications

Agency
ISO 9001:2015

## Classification

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

## Included Products

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


## * Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

## CS-8W-MP

## TeraSPEED® OS2 Singlemode Fiber

## TeraSPEED ${ }^{\circledR}$

## Product Classification

PortfolioProduct Type
General Specifications
Cladding Diameter ..... $125 \mu \mathrm{~m}$
Cladding Diameter Tolerance ..... $\pm 0.7 \mu \mathrm{~m}$
Cladding Non-Circularity, maximum ..... 0.7 \%
Coating Diameter (Colored) ..... $249 \mu \mathrm{~m}$
Coating Diameter (Uncolored) ..... $242 \mu \mathrm{~m}$
Coating Diameter Tolerance (Colored) ..... $\pm 13 \mu \mathrm{~m}$
Coating Diameter Tolerance (Uncolored) ..... $\pm 5 \mu \mathrm{~m}$
Coating/Cladding Concentricity Error, maximum ..... $12 \mu \mathrm{~m}$
Core Diameter ..... $8.3 \mu \mathrm{~m}$
Core/Clad Offset, maximum ..... $0.5 \mu \mathrm{~m}$
Proof Test
Dimensions
Fiber Curl, minimum
Mechanical Specifications
Macrobending, 20 mm mandrel, 1 turn
Macrobending, $\mathbf{3 0} \mathbf{m m}$ mandrel, 10 turns
Macrobending, 60 mm mandrel, 100 turns
Coating Strip Force, maximum689.476 N/mm² | 100000 psi
CommScope®
Optical fiber689.476 N/mm² 100000 psi$4 \mathrm{~m} \mid 13.123 \mathrm{ft}$
0.75 dB @ 1,550 nm | 1.50 dB @ 1,625 nm0.25 dB @ 1,550 nm | 1.00 dB @ 1,625 nm8.9 N | 2.001 lbf

## CS-8W-MP

Coating Strip Force, minimum
Dynamic Fatigue Parameter, minimum

## Optical Specifications

Cabled Cutoff Wavelength, maximum
Point Defects, maximum
Zero Dispersion Slope, maximum
Zero Dispersion Wavelength, maximum
Zero Dispersion Wavelength, minimum

## Optical Specifications, Wavelength Specific

## Attenuation, maximum

## Backscatter Coefficient

Dispersion, maximum

Index of Refraction

## Mode Field Diameter

## Mode Field Diameter Tolerance

## Polarization Mode Dispersion Link Design Value, maximum

Standards Compliance

## Environmental Specifications

## Heat Aging, maximum

Temperature Dependence, maximum
Temperature Humidity Cycling, maximum
Water Immersion, maximum

## Regulatory Compliance/Certifications

## Agency Classification

ISO 9001:2015
1.3 N | 0.292 lbf 20

```
1260 nm
```

0.1 dB
0.092 ps/[km-nm-nm]

1324 nm
1300 nm

```
0.40 dB/km @ 1,310 nm | 0.40 dB/km @ 1,385
nm | 0.40 dB/km @ 1,490 nm | 0.40 dB/km @ 1,550
nm | 0.50 dB/km @ 1,270 nm | 0.50 dB/km @ 1,575
nm
-79.6 dB @ 1,310 nm | -82.1 dB @ 1,550 nm
18 ps(nm-km) at 1550 nm | 3.5 ps(nm-km) from 1285
nm}\mathrm{ to }1330\textrm{nm}\mathrm{ at }1310\textrm{nm
1.467@ 1,310 nm | 1.467@ 1,385 nm | 1.468 @ 1,550
nm
10.4 \mum@ 1,550 nm | 9.2 \mum @ 1,310 nm | 9.6 \mum @ 
1,385 nm
\pm0.4 \mum @ 1310 nm | }\pm0.5 \mum @ 1550 nm | £0.6 \mu
@ 1385 nm
0.04 ps/sqrt(km)
ITU-T G.652.D | ITU-T G.657.A1 | TIA-492CAAB (OS2)
```

$0.05 \mathrm{~dB} / \mathrm{km}$
$0.05 \mathrm{~dB} / \mathrm{km}$
$0.05 \mathrm{~dB} / \mathrm{km} @ 23^{\circ} \mathrm{C}$

## CS-8W-MP

* Footnotes

Temperature Dependence, maximum Temperature dependence is conducted at $-60^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(-76^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$
Temperature Humidity Cycling, maximum Temperature humidity cycling is conducted at $-10^{\circ} \mathrm{C}$ to $+85^{\circ} \mathrm{C}\left(+14^{\circ} \mathrm{F}\right.$ to $\left.+185^{\circ} \mathrm{F}\right)$ up to $95 \%$ relative humidity

