

TeraSPEED® MPO (female) to LC Simplex, InstaPATCH® 360 TM Array Fanout, 12-Fiber, Plenum, 32 ft + 24 in Breakout

Product Classification

| | |
|------------------------------|---|
| Portfolio | SYSTIMAX® |
| Brand | InstaPATCH® 360 TeraSPEED® |
| Product Type | Fiber fanout cable assembly |
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |

Construction Materials

| | |
|-------------------------------------|---|
| Fiber Type | G.652.D and G.657.A1 , TeraSPEED® OS2 |
| Total Fibers, quantity | 12 |
| Jacket Color | Yellow |
| Fibers per Subunit, quantity | 12 |
| Furcation Color | Yellow |

Dimensions

| | |
|-----------------------------|-----------------------|
| Breakout Length | 24 in |
| Cord Length, maximum | 10 m 32 ft |
| Cord Length, minimum | 10 m 32 ft |
| Ordering Note | Fixed length assembly |

Environmental Specifications

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

General Specifications

| | |
|-------------------------------|----------------------------|
| Construction Type | InstaPATCH® 360 array cord |
| Interface, connector A | MPO-12/APC Female |
| Interface, connector B | LC/UPC |
| Color, connector A | Green |
| Color, connector B | Green |

Mechanical Specifications

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

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

Classification

Compliant

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



Included Products

860366137 (Product Component—not orderable) — MPO12, STANDARD LOSS, FEMALE, SM, GREEN, 3mm

P-012-MP-8W-F30YL (Product Component—not orderable) — TeraSPEED® Plenum MPO Light Duty Patchcord Cable, 12 fiber

- CS-8W-MP (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber

MPO12, STANDARD LOSS, FEMALE, SM, GREEN, 3mm

Product Classification

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

Construction Materials

| | |
|-------------------------|---|
| Fiber Type | G.652.D and G.657.A1 , TeraSPEED® OS2 |
| Ferrule Geometry | Angled |
| Ferrule Material | Polymer |
| Fiber Mode | Singlemode |

Dimensions

| | |
|----------------------------------|--------------------|
| Compatible Cable Diameter | 3.0 mm 0.1 in |
| Length | 60.10 mm 2.37 in |

General Specifications

| | |
|--------------------------|------------|
| Interface | MPO Female |
| Body Style | 12-fiber |
| Interface Feature | Standard |
| Color | Green |
| Color, boot | Black |
| Package Quantity | 1 |

Mechanical Specifications

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

Optical Performance

| | |
|--------------------------------|---------|
| Insertion Loss, maximum | 0.67 dB |
| Return Loss, minimum | 55.0 dB |

Optical Specifications

| | |
|------------------------------------|------------------|
| Optical Components Standard | ANSI/TIA-568-C.3 |
|------------------------------------|------------------|

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU
ISO 9001:2015

Classification

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



P-012-MP-8W-F30YL

TeraSPEED® Plenum MPO Light Duty Patchcord Cable, 12 fiber

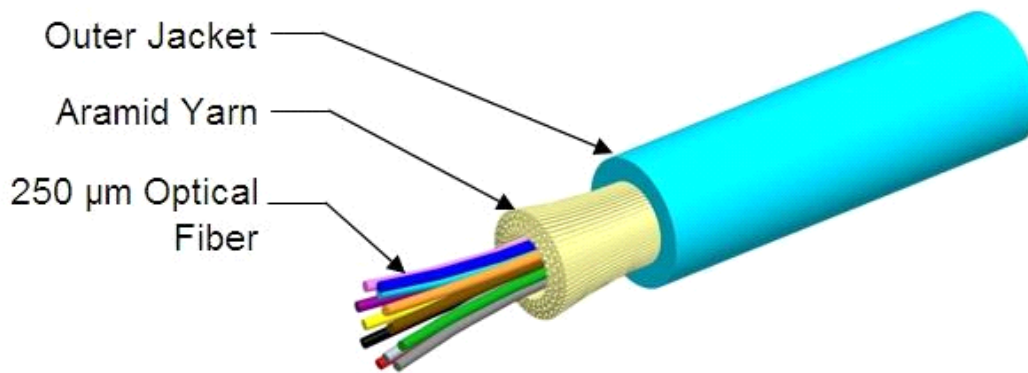
Product Classification

| | |
|------------------------------|---|
| Portfolio | CommScope® |
| Product Type | Fiber indoor cable |
| Regional Availability | Asia Australia/New Zealand EMEA Latin America North America |

Standards And Qualifications

| | |
|--------------------------------------|---------------------------------------|
| Cable Qualification Standards | ANSI/ICEA S-83-596 Telcordia GR-409 |
|--------------------------------------|---------------------------------------|

Representative Image



General Specifications

| | |
|--------------------------|-----------------|
| Cable Type | MPO trunk cable |
| Construction Type | Non-armored |
| Subunit Type | Gel-free |

Construction Materials

| | |
|-----------------------------|---|
| Fiber Type Solution | G.652.D and G.657.A1 , TeraSPEED® OS2 |
| Total Fiber Count | 12 |
| Fiber Type | G.652.D and G.657.A1, TeraSPEED® OS2 |
| Fiber Type, quantity | 12 |
| Jacket Color | Yellow |

Dimensions

P-012-MP-8W-F30YL

| | |
|-----------------------------|------------------------|
| Cable Weight | 6.1 lb/kft 9.0 kg/km |
| Diameter Over Jacket | 3.00 mm 0.12 in |

Physical Specifications

| | |
|--|---------------------|
| Minimum Bend Radius, loaded | 4.5 cm 1.8 in |
| Minimum Bend Radius, unloaded | 2.4 cm 0.9 in |
| Tensile Load, long term, maximum | 23 lbf 100 N |
| Tensile Load, short term, maximum | 75 lbf 334 N |
| Vertical Rise, maximum | 500.0 m 1640.4 ft |

Flame Test Specifications

| | |
|---------------------------|---------------------------|
| Flame Test Listing | NEC OFNP (ETL) and c(ETL) |
| Flame Test Method | NFPA 262 |

Environmental Specifications

| | |
|---------------------------------|--------------------------------------|
| Environmental Space | Plenum |
| 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) |

Mechanical Test Specifications

| | |
|--------------------------------|---------------------------------------|
| Compression | 20 lb/in 4 N/mm |
| Compression Test Method | FOTP-41 IEC 60794-1 E3 |
| Flex | 300 cycles |
| Flex Test Method | FOTP-104 IEC 60794-1 E6 |
| Impact | 0.55 ft lb 0.74 N-m |
| 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 |

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) |

P-012-MP-8W-F30YL

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

Classification

Compliant

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Included Products

CS-8W-MP (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

TeraSPEED®

TeraSPEED® OS2 Singlemode Fiber

Product Classification

| | |
|---------------------|---------------|
| Portfolio | CommScope® |
| Product Type | Optical fiber |

Optical Specifications, Wavelength Specific

| | |
|--|---|
| Standards Compliance | ITU-T G.652.D ITU-T G.657.A1 TIA-492CAAB (OS2) |
| Attenuation, maximum | 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 |
| Dispersion, maximum | 18 ps/(nm-km) at 1550 nm 3.5 ps/(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| Mode Field Diameter | 10.4 μm @ 1,550 nm 9.2 μm @ 1,310 nm 9.6 μm @ 1,385 nm |
| Mode Field Diameter Tolerance | ±0.3 μm @ 1310 nm ±0.5 μm @ 1550 nm ±0.6 μm @ 1385 nm |
| Index of Refraction | 1.467 @ 1,310 nm 1.468 @ 1,385 nm 1.468 @ 1,550 nm |
| Polarization Mode Dispersion Link Design Value, maximum | 0.04 ps/sqrt(km) |
| Backscatter Coefficient | -79.6 dB @ 1,310 nm -82.1 dB @ 1,550 nm |

Physical Specifications

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|--|----------|
| Cladding Diameter | 125.0 μm |
| Cladding Diameter Tolerance | ±0.7 μm |
| Cladding Non-Circularity, maximum | 0.7 % |
| Coating Diameter (Colored) | 253 μm |
| Coating Diameter (Uncolored) | 240 μm |
| Coating Diameter Tolerance (Colored) | ±7 μm |
| Coating Diameter Tolerance (Uncolored) | ±5 μm |
| Coating/Cladding Concentricity Error, maximum | 12 μm |
| Core/Clad Offset, maximum | 0.5 μm |

Optical Specifications, General

| | |
|--|---------------------|
| Cabled Cutoff Wavelength, maximum | 1260 nm |
| Point Defects, maximum | 0.10 dB |
| Zero Dispersion Slope, maximum | 0.090 ps/[km-nm-nm] |
| Zero Dispersion Wavelength, maximum | 1322 nm |
| Zero Dispersion Wavelength, minimum | 1302 nm |

Mechanical Specifications

| | |
|---|--|
| Coating Strip Force, maximum | 8.9 N 2.0 lbf |
| Coating Strip Force, minimum | 1.3 N 0.3 lbf |
| Dynamic Fatigue Parameter, minimum | 20 |
| Fiber Curl, minimum | 4.0 m 13.1 ft |
| Macrobending, 20 mm mandrel, 1 turn | 0.75 dB @ 1,550 nm 1.50 dB @ 1,625 nm |
| Macrobending, 30 mm mandrel, 10 turns | 0.25 dB @ 1,550 nm 1.00 dB @ 1,625 nm |
| Macrobending, 50 mm mandrel, 100 turns | 0.03 dB @ 1,550 nm 0.03 dB @ 1,625 nm |
| Proof Test | 689.48 N/mm ² 100000.00 psi |

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 |



* Footnotes

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