

TeraSPEED® MPO (female) to LC Simplex, InstaPATCH® 360 TM Array Fanout, 12-Fiber, Plenum, 21 ft + 24 in Breakout

## Product Classification

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

## Construction Materials

<b>Fiber Type</b>	G.652.D and G.657.A1 , TeraSPEED®   OS2
<b>Total Fibers, quantity</b>	12
<b>Jacket Color</b>	Yellow
<b>Fibers per Subunit, quantity</b>	12
<b>Furcation Color</b>	Yellow

## Dimensions

<b>Breakout Length</b>	24 in
<b>Cord Length, maximum</b>	6 m   21 ft
<b>Cord Length, minimum</b>	6 m   21 ft
<b>Ordering Note</b>	Fixed length assembly

## Environmental Specifications

<b>Environmental Space</b>	Plenum
<b>Operating Temperature</b>	-10 °C to +60 °C (+14 °F to +140 °F)

## General Specifications

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

## Mechanical Specifications

<b>Cable Retention Strength, maximum</b>	11.24 lb @ 0 °   4.40 lb @ 90 °
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## 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

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

## Construction Materials

<b>Fiber Type</b>	G.652.D and G.657.A1 , TeraSPEED®   OS2
<b>Ferrule Geometry</b>	Angled
<b>Ferrule Material</b>	Polymer
<b>Fiber Mode</b>	Singlemode

## Dimensions

<b>Compatible Cable Diameter</b>	3.0 mm   0.1 in
<b>Length</b>	60.10 mm   2.37 in

## General Specifications

<b>Interface</b>	MPO Female
<b>Body Style</b>	12-fiber
<b>Interface Feature</b>	Standard
<b>Color</b>	Green
<b>Color, boot</b>	Black
<b>Package Quantity</b>	1

## Mechanical Specifications

<b>Cable Retention Strength, maximum</b>	11.24 lb @ 0 °
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## Optical Performance

<b>Insertion Loss, maximum</b>	0.67 dB
<b>Return Loss, minimum</b>	55.0 dB

## Optical Specifications

<b>Optical Components Standard</b>	ANSI/TIA-568-C.3
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## Regulatory Compliance/Certifications

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# P-012-MP-8W-F30YL

TeraSPEED® Plenum MPO Light Duty Patchcord Cable, 12 fiber

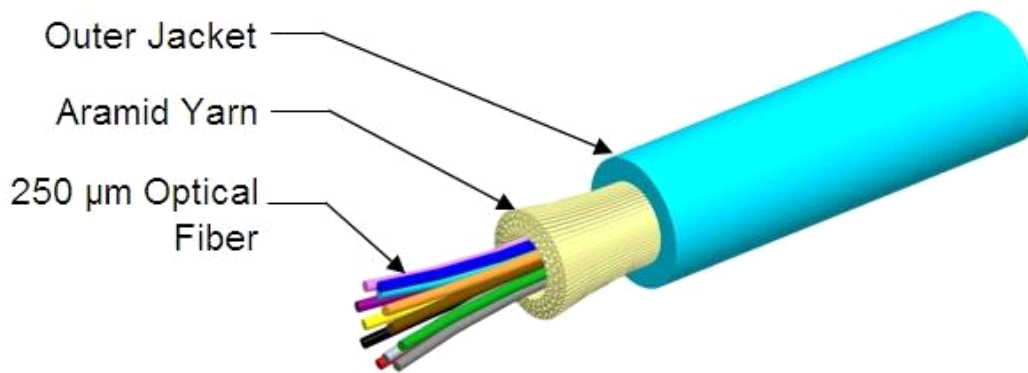
## Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber indoor cable
<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America

## Standards And Qualifications

<b>Cable Qualification Standards</b>	ANSI/ICEA S-83-596   Telcordia GR-409
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## Representative Image



## General Specifications

<b>Cable Type</b>	MPO trunk cable
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-free

## Construction Materials

<b>Fiber Type Solution</b>	G.652.D and G.657.A1 , TeraSPEED®   OS2
<b>Total Fiber Count</b>	12
<b>Fiber Type</b>	G.652.D and G.657.A1, TeraSPEED®   OS2
<b>Fiber Type, quantity</b>	12
<b>Jacket Color</b>	Yellow

## Dimensions

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<b>Cable Weight</b>	6.1 lb/kft   9.0 kg/km
<b>Diameter Over Jacket</b>	3.00 mm   0.12 in

## Physical Specifications

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

## Flame Test Specifications

<b>Flame Test Listing</b>	NEC OFNP (ETL) and c(ETL)
<b>Flame Test Method</b>	NFPA 262

## Environmental Specifications

<b>Environmental Space</b>	Plenum
<b>Installation Temperature</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Operating Temperature</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)

## Mechanical Test Specifications

<b>Compression</b>	20 lb/in   4 N/mm
<b>Compression Test Method</b>	FOTP-41   IEC 60794-1 E3
<b>Flex</b>	300 cycles
<b>Flex Test Method</b>	FOTP-104   IEC 60794-1 E6
<b>Impact</b>	0.55 ft lb   0.74 N-m
<b>Impact Test Method</b>	FOTP-25   IEC 60794-1 E4
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	FOTP-33   IEC 60794-1 E1
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	FOTP-85   IEC 60794-1 E7

## Environmental Test Specifications

<b>Heat Age</b>	0 °C to +85 °C (+32 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 F9
<b>Low High Bend</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Low High Bend Test Method</b>	FOTP-37   IEC 60794-1 E11
<b>Temperature Cycle</b>	0 °C to +70 °C (+32 °F to +158 °F)

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

## Regulatory Compliance/Certifications

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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

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Optical fiber

## Optical Specifications, Wavelength Specific

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

## Physical Specifications

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

## Optical Specifications, General

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



## Mechanical Specifications

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

## Environmental Specifications

<b>Heat Aging, maximum</b>	0.05 dB/km @ 85 °C
<b>Temperature Dependence, maximum</b>	0.05 dB/km
<b>Temperature Humidity Cycling, maximum</b>	0.05 dB/km
<b>Water Immersion, maximum</b>	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

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