

FGWMPMXAF

TeraSPEED® MPO (female) to MPO (male), InstaPATCH® 360 Pre-terminated Extension Cable, 24-Fiber, Plenum

Product Classification

Portfolio	SYSTIMAX®
Brand	InstaPATCH® 360 TeraSPEED®
Product Type	Fiber extension 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	24
Fibers per Subunit, quantity	12
Furcation Color	Yellow

Dimensions

Breakout Length	33 in
Cord Length, maximum	999 ft 999 m
Cord Length, minimum	10 ft 3 m
Ordering Note	For lengths greater than 999 ft (304 m), orders must be in meters Minimum length may vary based on cable configuration

Environmental Specifications

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

General Specifications

Construction Type	InstaPATCH® 360 trunk/extension/cross-connect, indoor
Interface, connector A	MPO-12/APC Female
Interface, connector B	MPO-12/APC Male
Color, connector A	Green
Color, connector B	Green

Mechanical Specifications

Cable Retention Strength, maximum	11.24 lb @ 0 ° 4.40 lb @ 90 °
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Regulatory Compliance/Certifications

Agency	Classification
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RoHS 2011/65/EU
ISO 9001:2015

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



Included Products

P-024-MP-8W-F12 (Product Component—not orderable) — TeraSPEED® Plenum MPO Trunk Cable, 24 fiber with 12 fiber subunits

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

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

860366178 (Product Component—not orderable) — MPO12, STANDARD LOSS, MALE, SM, GREEN, 3mm

P-024-MP-8W-F12

TeraSPEED® Plenum MPO Trunk Cable, 24 fiber with 12 fiber subunits

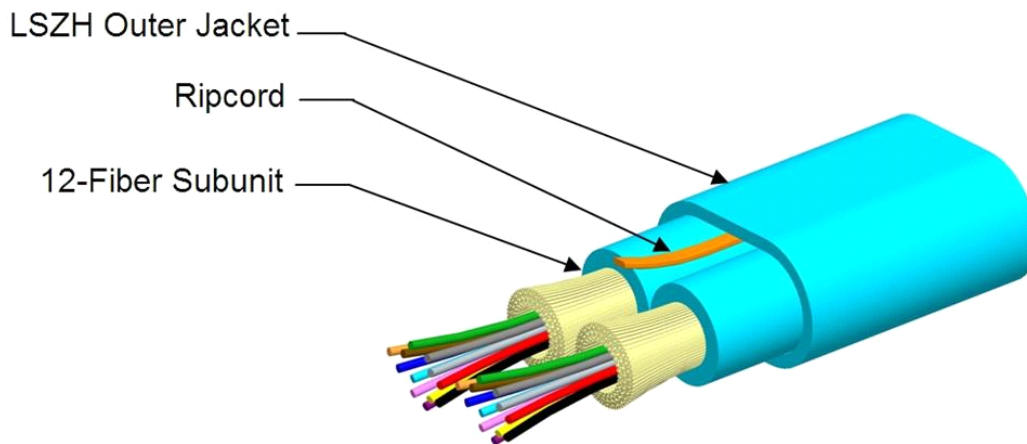
Product Classification

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
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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	24
Fiber Type	G.652.D and G.657.A1, TeraSPEED® OS2
Fiber Type, quantity	24
Fibers per Subunit, quantity	12

P-024-MP-8W-F12

Dimensions

Buffer Tube/Subunit Diameter	3.00 mm 0.12 in
Cable Weight	19.5 lb/kft 29.0 kg/km
Height Over Jacket	3.90 mm 0.15 in
Subunit, quantity	2
Width Over Jacket	6.90 mm 0.27 in

Physical Specifications

Minimum Bend Radius, loaded	5.8 cm 2.3 in
Minimum Bend Radius, unloaded	3.9 cm 1.5 in
Tensile Load, long term, maximum	45 lbf 200 N
Tensile Load, short term, maximum	150 lbf 667 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	10 N/mm 57 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	300 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	0.55 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)
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P-024-MP-8W-F12

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)
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

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

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

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* 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

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 °
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Optical Performance

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

Optical Specifications

Optical Components Standard	ANSI/TIA-568-C.3
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General Specifications

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Interface Feature	Standard
Color	Green
Color, boot	Black
Package Quantity	1

Mechanical Specifications

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