

LazrSPEED® 550 MPO (female) to LC Simplex, InstaPATCH® 360 TM Array Fanout, 12-Fiber, Plenum, 20 ft + 24 in Breakout

Product Classification

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

Construction Materials

Fiber Type	OM4, LazrSPEED® 550
Total Fibers, quantity	12
Jacket Color	Aqua
Fibers per Subunit, quantity	12
Furcation Color	Aqua

Dimensions

Breakout Length	24 in
Cord Length, maximum	6 m 20 ft
Cord Length, minimum	6 m 20 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/UPC Female
Interface, connector B	LC/UPC
Color, connector A	Aqua
Color, connector B	Beige

Mechanical Specifications

Cable Retention Strength, maximum	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

860366210 (Product Component—not orderable) — MPO12, ULTRA LOW LOSS, FEMALE, OM3/4, AQUA, 3mm

460125172 (Product Component—not orderable) — Pre-Radiused LC Connector simplex for 1.6 mm Fiber, multimode

P-012-MP-5K-F30AQ (Product Component—not orderable) — LazrSPEED® Plenum MPO Light Duty Patchcord Cable, 12 fiber

- CS-5K-MP (Product Component—not orderable) — LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

MPO12, ULTRA LOW LOSS, FEMALE, OM3/4, AQUA, 3mm

Product Classification

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

Construction Materials

Fiber Type	OM3 OM4
Ferrule Geometry	Flat
Ferrule Material	Polymer
Fiber Mode	Multimode

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	Aqua
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	0.20 dB
Return Loss, minimum	27.0 dB

Optical Specifications

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



Pre-Radiused LC Connector simplex for 1.6 mm Fiber, multimode

Product Classification

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

Construction Materials

Ferrule Geometry	Pre-radiused
Ferrule Material	Zirconia
Fiber Mode	Multimode

Dimensions

Compatible Cable Diameter	1.6 mm 0.1 in
Length	50.30 mm 1.98 in

General Specifications

Interface	LC
Body Style	Simplex
Interface Feature	Standard
Color	Beige
Package Quantity	1

Mechanical Specifications

Cable Retention Strength, maximum	11.24 lb @ 0 °
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Optical Performance

Insertion Loss, maximum	0.33 dB
Return Loss, minimum	27.0 dB

Optical Specifications

Optical Components Standard	ANSI/TIA-568-C.3
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Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



P-012-MP-5K-F30AQ

LazrSPEED® Plenum MPO Light Duty Patchcord Cable, 12 fiber

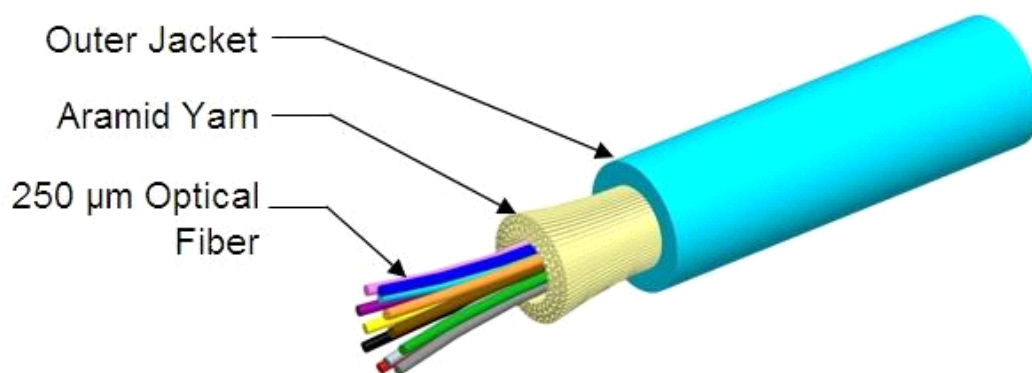
Product Classification

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
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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	OM4, LazrSPEED® 550
Total Fiber Count	12
Fiber Type	OM4, LazrSPEED® 550
Fiber Type, quantity	12
Jacket Color	Aqua

Dimensions

P-012-MP-5K-F30AQ

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-5K-F30AQ

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

Regulatory Compliance/Certifications

Agency

RoHS 2011/65/EU

ISO 9001:2015

Classification

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Included Products

CS-5K-MP (Product Component—not orderable) — LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

LazrSPEED® 550

Product Classification

Portfolio	CommScope®
Product Type	Optical fiber
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America

Optical Specifications, Wavelength Specific

Standards Compliance	IEC 60793-2-10, type A1a.3a IEC 60793-2-10, type A1a.3b TIA-492AAAD (OM4)
Attenuation, maximum	1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 nm
Differential Mode Delay Note	Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
Index of Refraction	1.479 @ 1,300 nm 1.483 @ 850 nm
1 Gbps Ethernet Distance	1,110 m @ 850 nm 600 m @ 1,300 nm
10 Gbps Ethernet Distance	550 m @ 850 nm
Bandwidth, Laser, minimum	4,700 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm
Bandwidth, OFL, minimum	3,500 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm
Differential Mode Delay	0.70 ps/m @ 850 nm 0.88 ps/m @ 1,300 nm
Backscatter Coefficient	-68.0 dB @ 850 nm -75.7 dB @ 1,300 nm

Physical Specifications

Cladding Diameter	125.0 µm
Cladding Diameter Tolerance	±0.8 µm
Cladding Non-Circularity, maximum	1.0 %
Coating Diameter (Colored)	254 µm
Coating Diameter (Uncolored)	245 µm
Coating Diameter Tolerance (Colored)	±7 µm
Coating Diameter Tolerance (Uncolored)	±10 µm
Coating/Cladding Concentricity Error, maximum	12 µm
Core Diameter	50.0 µm
Core Diameter Tolerance	±2.5 µm
Core/Clad Offset, maximum	1.5 µm

Optical Specifications, General

Numerical Aperture	0.200
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.15 dB

Zero Dispersion Slope, maximum	0.105 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1316 nm
Zero Dispersion Wavelength, minimum	1297 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	18
Macrobanding, 15 mm mandrel, 2 turns	0.20 dB @ 850 nm 0.50 dB @ 1,300 nm
Macrobanding, 30 mm mandrel, 2 turns	0.10 dB @ 850 nm 0.30 dB @ 1,300 nm
Proof Test	689.48 N/mm ² 100000.00 psi

Environmental Specifications

Heat Aging, maximum	0.20 dB/km @ 85 °C
Temperature Dependence, maximum	0.10 dB/km
Temperature Humidity Cycling, maximum	0.20 dB/km
Water Immersion, maximum	0.20 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