FRWMXLCGD

Base Product



Singlemode MPO (Pinned) to LC/UPC, InstaPATCH® 360 Array Cord, 12-Fiber, Low Smoke Zero Halogen

Product Classification

Regional Availability

Asia | Australia/New Zealand | Europe | Latin America | Middle East

/Africa | North America

Portfolio CommScope®

Product Type Fiber array cable assembly

Product Brand SYSTIMAX InstaPATCH® 360

Ordering Note Minimum length may vary based on cable configuration | Not available in the United

States or Canada

Yellow

General Specifications

Color, boot ABlackColor, connector AGreenColor, boot BBlueColor, connector BBlueConstruction TypeStranded

Interface, Connector A MPO-12/APC Male

Interface, Connector B LC/UPC

Jacket Color Yellow

Polarity Method B (LL)

Fibers per Subunit, quantity 12

Total Fibers, quantity 12

Dimensions

Furcation Color

Cable Assembly Length Range (m) 1 - 61

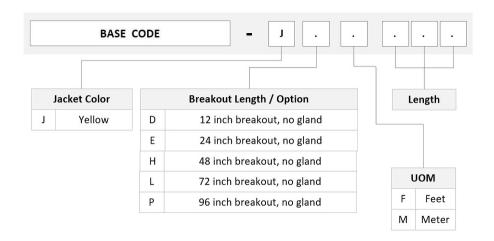
COMMSCOPE®

FRWMXLCGD

Cable Assembly Length Range (ft)

2 - 200

Ordering Tree



Mechanical Specifications

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

Optical Specifications

Fiber Mode Singlemode

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

Environmental Specifications

Operating Temperature $-10 \,^{\circ}\text{C}$ to $+60 \,^{\circ}\text{C}$ (+14 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)

Environmental Space Indoor | Low Smoke Zero Halogen (LSZH)

Regulatory Compliance/Certifications

Agency	Classification
ANATEL	Compliant
CHINA-ROHS	Above maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant/Exempted
UK-ROHS	Compliant/Exempted

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Included Products

860366178 – MPO12, LOW LOSS, MALE, Singlemode, GREEN, 3mm 860637435 – LC/UPC Connector, Singlemode, Blue, Short Boot

N-012-MP-8W-F30 – Fiber indoor cable, TeraSPEED® Low Smoke Zero Halogen Riser Light Duty for MPO
Patchcords, 12 fiber, Singlemode G.652.D and G.657.A1, Gel-free, Feet jacket marking, Dca

Flame rating



860366178



MPO12, LOW LOSS, MALE, Singlemode, GREEN, 3mm

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

 Portfolio
 CommScope®

 Product Type
 Fiber connector

 Product Brand
 TeraSPEED®

General Specifications

ColorGreenColor, bootBlackFerrule GeometryAngled

Interface MPO/APC Male

Interface FeaturePinnedTotal Fiber Count12

Dimensions

 Length
 60.1 mm | 2.366 in

 Compatible Cable Diameter
 3 mm | 0.118 in

Material Specifications

Ferrule Material Polymer

Mechanical Specifications

Cable Retention Strength, maximum $11.24 \text{ lb} @ 0 ^{\circ}$

Optical Specifications

Fiber Mode Singlemode

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

Insertion Loss Change, mating 0.3 dB

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

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860366178

Insertion Loss Change, temperature0.3 dBInsertion Loss, maximum0.67 dBReturn Loss, minimum55 dB

Packaging and Weights

Packaging quantity 1

Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Above maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant/Exempted

UK-ROHS Compliant



* Footnotes

Insertion Loss Change, matingTIA-568: Maximum insertion loss change after 500 matings

Insertion Loss Change, temperature Maximum insertion loss change from -10 °C to +60 °C (+14 °F to +140 °F)





LC/UPC Connector, Singlemode, Blue, Short Boot

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio CommScope®

Product Type Fiber connector

General Specifications

Color, bootBlueColor, housingBlueInterfaceLC/UPC

Dimensions

Length 41.6 mm | 1.638 in

Material Specifications

Ferrule Material Zirconia

Mechanical Specifications

Cable Retention Strength, maximum 11.24 lb @ 0 °

Optical Specifications

Fiber Mode Singlemode

Insertion Loss Change, mating 0.2 dB

Optical Components Standard ANSI/TIA-568. 3-D | IEC 61753-1

Insertion Loss Change, temperature0.3 dBInsertion Loss, maximum0.25 dBReturn Loss, minimum55 dB

Regulatory Compliance/Certifications

COMMSCOPE®

860637435

Agency Classification

CHINA-ROHS Below maximum concentration value

ROHS Compliant UK-ROHS Compliant



* Footnotes

Insertion Loss Change, matingTIA-568: Maximum insertion loss change after 500 matings

Insertion Loss Change, temperature Maximum insertion loss change from -10 °C to +60 °C (+14 °F to +140 °F)



N-012-MP-8W-F30

Fiber indoor cable, TeraSPEED® Low Smoke Zero Halogen Riser Light Duty for MPO Patchcords, 12 fiber, Singlemode G.652.D and G.657.A1, Gel-free, Feet jacket marking, Dca Flame rating

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North

America

PortfolioCommScope®Product TypeFiber indoor cable

Product Series N-MP

General Specifications

 Cable Type
 MPO trunk cable

 Construction Type
 Non-armored

Subunit Type Gel-free

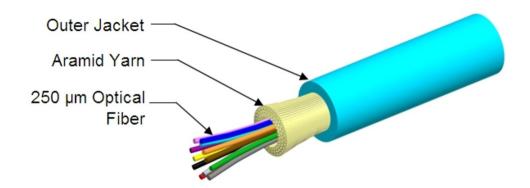
Jacket Marking Feet

Total Fiber Count 12

Dimensions

Diameter Over Jacket 3 mm | 0.118 in

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded45 mm1.772 inMinimum Bend Radius, unloaded24 mm0.945 in

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N-012-MP-8W-F30

Tensile Load, long term, maximum $100 \,\mathrm{N}$ | $22.481 \,\mathrm{lbf}$ Tensile Load, short term, maximum $334 \,\mathrm{N}$ | $75.086 \,\mathrm{lbf}$ Compression $4 \,\mathrm{N/mm}$ | $22.841 \,\mathrm{lb/in}$

Compression Test Method FOTP-41 | IEC 60794-1 E3

Flex 300 cycles

FIEX Test Method FOTP-104 | IEC 60794-1 E6

Impact 0.74 N-m | 6.55 in lb

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

Vertical Rise, maximum 500 m | 1,640.42 ft

Optical Specifications

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

Environmental Specifications

Installation temperature $0 \, ^{\circ}\text{C} \, \text{to} +60 \, ^{\circ}\text{C} \, (+32 \, ^{\circ}\text{F} \, \text{to} +140 \, ^{\circ}\text{F})$ Operating Temperature $0 \, ^{\circ}\text{C} \, \text{to} +70 \, ^{\circ}\text{C} \, (+32 \, ^{\circ}\text{F} \, \text{to} +158 \, ^{\circ}\text{F})$ Storage Temperature $-40 \, ^{\circ}\text{C} \, \text{to} +70 \, ^{\circ}\text{C} \, (-40 \, ^{\circ}\text{F} \, \text{to} +158 \, ^{\circ}\text{F})$

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

EN50575 CPR Cable EuroClass Fire PerformanceDcaEN50575 CPR Cable EuroClass Smoke Ratings1aEN50575 CPR Cable EuroClass Droplets Ratingd1EN50575 CPR Cable EuroClass Acidity Ratinga1

Environmental Space Low Smoke Zero Halogen (LSZH) | Riser

Flame Test Listing NEC OFNR-ST1 (ETL) and c(ETL)

Flame Test Method | IEC 60332-3 | IEC 60754-2 | IEC 61034-2 | UL 1666 | UL 1685

Environmental Test Specifications

Heat Age 0 °C to +85 °C (+32 °F to +185 °F)

Heat Age Test Method IEC 60794-1 F9

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N-012-MP-8W-F30

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 $0 \,^{\circ}\text{C to } +70 \,^{\circ}\text{C (+32 °F to } +158 \,^{\circ}\text{F)}$

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

Packaging and Weights

Cable weight 8.5 kg/km | 5.712 lb/kft

Regulatory Compliance/Certifications

Agency Classification

CENELEC EN 50575 compliant, Declaration of Performance (DoP) available

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

CENELEC

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

