

# UHG MXUCAL

## Base Product



Ultra Low Loss (ULL) Singlemode MPO12 (Pinned) to Unconnectorized, Armored Pre-terminated Trunk Cable, 96-Fiber, Plenum

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   China   Europe   India   Latin America   Middle East/Africa   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber trunk cable assembly
<b>Product Brand</b>	SYSTIMAX InstaPATCH® 360
<b>Ordering Note</b>	For lengths greater than 999 ft (304 m), orders must be in meters   Minimum length may vary based on cable configuration

## General Specifications

<b>Connector A, quantity</b>	8
<b>Color, boot A</b>	Black
<b>Color, connector A</b>	Green
<b>Connector B, quantity</b>	0
<b>Color, boot B</b>	Black
<b>Color, connector B</b>	Green
<b>Construction Type</b>	Armored   Stranded
<b>Furcation Color</b>	Yellow
<b>Interface, Connector A</b>	MPO-12/APC Male
<b>Interface Feature, connector A</b>	Pinned
<b>Interface, Connector B</b>	Unterminated
<b>Jacket Color</b>	Yellow
<b>Polarity</b>	Method B Enhanced (ULL)
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fibers, quantity</b>	96

## Dimensions

# UHG MXUCAL

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<b>Breakout Length</b>	33 in
<b>Cable Assembly Length Range (m)</b>	3 – 999
<b>Cable Assembly Length Range (ft)</b>	10 – 999

## Mechanical Specifications

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

<b>Fiber Mode</b>	Singlemode
<b>Fiber Type</b>	G.652.D   G.657.A1, TeraSPEED®

## Environmental Specifications

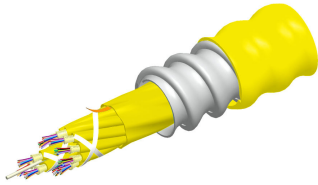
<b>Operating Temperature</b>	-10 °C to +60 °C (+14 °F to +140 °F)
<b>Environmental Space</b>	Indoor   Plenum

## Included Products

- 760245034  
P-096-MZ-8G1-F12YL – Fiber indoor cable, Plenum MPO Trunk, interlocking aluminum armored with plenum jacket, 96 fiber multi-unit with 12 fiber subunits, Gel-free, Singlemode G.657.A2/B2, Feet jacket marking, Yellow jacket color
- 860638317 – MPO12, ULTRA LOW LOSS, MALE, Singlemode, GREEN, 3mm

# 760245034 | P-096-MZ-8G1-F12YL

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Fiber indoor cable, Plenum MPO Trunk, interlocking aluminum armored with plenum jacket, 96 fiber multi-unit with 12 fiber subunits, Gel-free, Singlemode G.657.A2/B2, Feet jacket marking, Yellow jacket color

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   Latin America   Middle East /Africa   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber indoor cable
<b>Product Series</b>	P-MZ

## General Specifications

<b>Armor Type</b>	Interlocking aluminum
<b>Cable Type</b>	MPO trunk cable
<b>Construction Type</b>	Armored
<b>Subunit Type</b>	Gel-free
<b>Jacket Color</b>	Yellow
<b>Jacket Marking</b>	Feet
<b>Subunit, quantity</b>	8
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fiber Count</b>	96

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	3 mm   0.118 in
<b>Diameter Over Armor</b>	18.42 mm   0.725 in
<b>Diameter Over Jacket</b>	20.4 mm   0.803 in

## Representative Image



## Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	307 mm   12.087 in
<b>Minimum Bend Radius, unloaded</b>	204 mm   8.032 in
<b>Tensile Load, long term, maximum</b>	400 N   89.924 lbf
<b>Tensile Load, short term, maximum</b>	1335 N   300.12 lbf
<b>Compression</b>	85 N/mm   485.363 lb/in
<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>	35 N-m   309.776 in lb
<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
<b>Vertical Rise, maximum</b>	111 m   364.173 ft

## Optical Specifications

<b>Fiber Type</b>	G.657.A2/B2   G.657.A2/B2
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## Environmental Specifications

<b>Installation temperature</b>	0 °C to +70 °C (+32 °F to +158 °F)
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# 760245034 | P-096-MZ-8G1-F12YL

<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)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-83-596   Telcordia GR-409
<b>Environmental Space</b>	Plenum
<b>Flame Test Listing</b>	NEC OFCP (ETL) and c(ETL)
<b>Flame Test Method</b>	NFPA 130   NFPA 262

## 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)
<b>Temperature Cycle Test Method</b>	FOTP-3   IEC 60794-1 F1

## Packaging and Weights

<b>Cable weight</b>	367 kg/km   246.613 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant

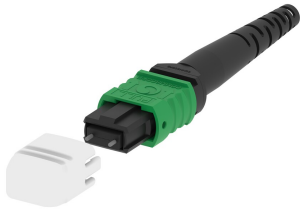


## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

# 860638317

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

## Product Classification

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

## General Specifications

<b>Color</b>	Green
<b>Color, boot</b>	Black
<b>Ferrule Geometry</b>	Angled
<b>Interface</b>	MPO/APC Male
<b>Interface Feature</b>	Pinned
<b>Total Fiber Count</b>	12

## Dimensions

<b>Length</b>	60.1 mm   2.366 in
<b>Compatible Cable Diameter</b>	3 mm   0.118 in

## Material Specifications

<b>Ferrule Material</b>	Polymer
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## Mechanical Specifications

<b>Cable Retention Strength, maximum</b>	11.24 lb @ 0 °
<b>Mechanical Components Standard</b>	IEC 61754-7

## Optical Specifications

<b>Fiber Mode</b>	Singlemode
<b>Fiber Type</b>	G.652.D and G.657.A1, TeraSPEED®   OS2

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<b>Insertion Loss Change, mating</b>	0.3 dB
<b>Optical Components Standard</b>	ANSI/TIA-568-C.3
<b>Insertion Loss Change, temperature</b>	0.3 dB
<b>Insertion Loss, maximum</b>	0.35 dB
<b>Return Loss, minimum</b>	65 dB

## Packaging and Weights

<b>Packaging quantity</b>	1
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## \* Footnotes

<b>Insertion Loss Change, mating</b>	TIA-568: Maximum insertion loss change after 500 matings
<b>Insertion Loss Change, temperature</b>	Maximum insertion loss change from -10 °C to +60 °C (+14 °F to +140 °F)