



Fiber Indoor Cable, Plenum MPO Trunk, 96 fiber multi-unit with 12 fiber subunits, Singlemode G.657.A2/B2, Gel-free, Feet jacket marking, Yellow jacket color

## Product Classification

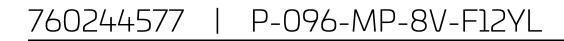
Regional Availability	Asia   Australia/New Zealand   Latin America   Middle East /Africa   North America
Portfolio	CommScope®
Product Type	Fiber indoor cable
Product Series	P-MP
General Specifications	
Cable Type	MPO trunk cable
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Yellow
Jacket Marking	Feet
Subunit, quantity	8
Fibers per Subunit, quantity	12
Total Fiber Count	96
Dimensions	
Buffer Tube/Subunit Diameter	3 mm   0.118 in
Diameter Over Jacket	12.25 mm   0.482 in

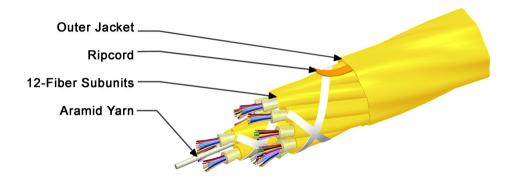
# Representative Image

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# Mechanical Specifications

Minimum Bend Radius, loaded	184 mm   7.244 in
Minimum Bend Radius, unloaded	122 mm   4.803 in
Tensile Load, long term, maximum	400 N   89.924 lbf
Tensile Load, short term, maximum	1335 N   300.12 lbf
Compression	10 N/mm   57.101 lb/in
Compression Test Method	FOTP-41   IEC 60794-1 E3
Flex	300 cycles
Flex Test Method	FOTP-104   IEC 60794-1 E6
Impact	0.74 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	265 m   869.423 ft
Optical Specifications	

Fiber Type

G.652.D | G.652.D | G.657.A2/B2 | G.657.A2/B2

# **Environmental Specifications**

#### Installation temperature

0 °C to +70 °C (+32 °F to +158 °F)

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# 760244577 | P-096-MP-8V-F12YL

Operating Temperature	0 °C to +70 °C (+32 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	ANSI/ICEA S-83-596   Telcordia GR-409
Environmental Space	Plenum
Flame Test Listing	NEC OFNP (ETL) and c(ETL)
Flame Test Method	NFPA 130   NFPA 262

# 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)
Temperature Cycle Test Method	FOTP-3   IEC 60794-1 F1

# Packaging and Weights

#### Cable weight

154 kg/km | 103.483 lb/kft

### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant
UK-ROHS	Compliant



### Included Products

CS-8V-MP

Enhanced Low Macrobending, Low Water Peak, Dispersion-Unshifted Single-mode Fiber

# \* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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Enhanced Low Macrobending, Low Water Peak, Dispersion-Unshifted Single-mode Fiber

Product Classification	
Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±0.7 µm
Cladding Non-Circularity, maximum	0.5 %
Coating Diameter (Uncolored)	242 µm
Coating Diameter Tolerance (Colored)	±7 μm
Coating Diameter Tolerance (Uncolored)	±7 μm
Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum	0.5 µm
Proof Tensile Stress	100,000 psi (0.69 GPa)
Dimensions	
Fiber Curl, minimum	4 m   13.123 ft
Mechanical Specifications	
Macrobending, 15 mm Ø mandrel, 1 turn	0.50 dB @ 1,550 nm   1.00 dB @ 1,625 nm
Macrobending, 20 mm Ø mandrel, 1 turn	0.10 dB @ 1,550 nm   0.20 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.03 dB @ 1,550 nm   0.10 dB @ 1,625 nm
Coating Strip Force, maximum	8.9 N   2.001 lbf
Coating Strip Force, minimum	1.3 N   0.292 lbf
Dynamic Fatigue Parameter, minimum	20
Optical Specifications	
Cabled Cutoff Wavelength, maximum	1260 nm
Point Defects, maximum	0.1 dB
Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1324 nm

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**COMMSCOPE**°

# CS-8V-MP

1300 nm Zero Dispersion Wavelength, minimum Optical Specifications, Wavelength Specific Attenuation, maximum 0.40 dB/km @ 1,310 nm | 0.40 dB/km @ 1,385 nm | 0.40 dB/km @ 1,550 nm **Backscatter Coefficient** -79.1 dB @ 1,310 nm | -81.4 dB @ 1,550 nm | -82.2 dB @ 1,625 nm 1.467 @ 1,310 nm | 1.467 @ 1,550 nm | 1.468 @ 1,625 Index of Refraction nm **Mode Field Diameter** 8.9 μm @ 1,310 nm | 9.9 μm @ 1,550 nm **Mode Field Diameter Tolerance** ±0.4 µm @ 1310 nm | ±0.5 µm @ 1550 nm Polarization Mode Dispersion Link Design Value, maximum 0.1 ps/sqrt(km) **Standards Compliance** ITU-T G.657.A2 | ITU-T G.657.B2

## **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

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

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