P-096-MZ-6F-F12

Fiber indoor cable, OptiSPEED® Plenum MPO Trunk, interlocking aluminum armored with plenum jacket, 96 fiber multi-unit with 12 fiber subunits, Multimode OM1, Feet jacket marking

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-MZ

General Specifications

Armor Type Interlocking aluminum

Cable Type MPO trunk cable

Construction Type Armored

Fiber Type, quantity 96
Fibers per Subunit, quantity 12
Jacket Marking Feet
Subunit Type Gel-free

Subunit, quantity 8

Total Fiber Count 96

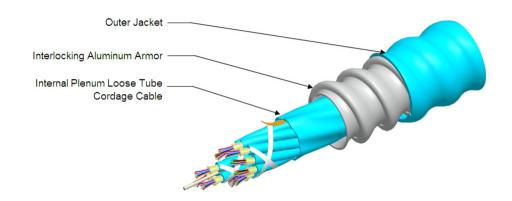
Dimensions

Buffer Tube/Subunit Diameter3 mm | 0.118 inDiameter Over Armor18.42 mm | 0.725 inDiameter Over Jacket20.4 mm | 0.803 in

Representative Image



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Mechanical Specifications

Minimum Bend Radius, loaded409 mm1 16.102 inMinimum Bend Radius, unloaded286 mm1 11.26 inTensile Load, long term, maximum400 N | 89.924 lbf

Tensile Load, short term, maximum 1335 N | 300.12 lbf

Compression 85 N/mm | 485.363 lb/in

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

Flex 300 cycles

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

Impact 35 N-m | 309.776 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 111 m | 364.173 ft

Optical Specifications

Fiber Type OM1, OptiSPEED® | OM1, OptiSPEED®

Environmental Specifications

Installation temperature 0 °C to +70 °C (+32 °F to +158 °F)

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

Storage Temperature $-40 \,^{\circ}\text{C to} + 70 \,^{\circ}\text{C} \, (-40 \,^{\circ}\text{F to} + 158 \,^{\circ}\text{F})$

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

Environmental Space Plenum

Flame Test Listing NEC OFCP (ETL) and c(ETL)

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

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

Packaging and Weights

Cable weight 367 kg/km | 246.613 lb/kft

Regulatory Compliance/Certifications

Agency

Classification

ISO 9001:2015

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



Included Products

CS-6F-MP - OptiSPEED® OM1 Multimode

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable



OptiSPEED® OM1 Multimode Fiber

OptiSPEED®

Product Classification

Portfolio CommScope®

Product Type Optical fiber

General Specifications

Cladding Non-Circularity, maximum $$1\ \%$$

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 62.5 µm

Core Diameter Tolerance ±2.5 µm

Core/Clad Offset, maximum 1 µm

Proof Test 689.476 N/mm² | 100000 psi

Mechanical Specifications

Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm | 0.50 dB @ 850 nm

Coating Strip Force, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 18

Optical Specifications



CS-6F-MP

Numerical Aperture 0.275

Numerical Aperture Tolerance ±0.015

Point Defects, maximum 0.15 dB

Zero Dispersion Slope, maximum 0.097 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum1365 nmZero Dispersion Wavelength, minimum1320 nm

Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance 300 m @ 850 nm | 550 m @ 1,300 nm

Attenuation, maximum 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm

Backscatter Coefficient -68.0 dB @ 850 nm | -75.7 dB @ 1,300 nm

Bandwidth, OFL, minimum 220 MHz-km @ 850 nm | 500 MHz-km @ 1,300 nm

Index of Refraction 1.491 @ 1,300 nm | 1.496 @ 850 nm

Standards Compliance TIA-492AAAA (OM1)

Environmental Specifications

Heat Aging, maximum 0.20 dB/km @ 85 $^{\circ}$ C

Temperature Dependence, maximum0.1 dB/kmTemperature Humidity Cycling, maximum0.2 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

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