760232777 | P-060-CN-RB-F12AQ/5X/99E



Fiber Indoor Cable, Plenum All-Dielectric Central Tube Ribbon, 60-fiber, Multimode OM4 bend insensitive, Feet jacket marking, Aqua 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-CN
General Specifications	
Cable Type	Ribbon central tube
Construction Type	Non-armored
Subunit Type	Gel-free
Fibers per Ribbon, quantity	12
Jacket Color	Aqua
Jacket Marking	Feet
Total Fiber Count	60
Dimensions	
Buffer Tube/Subunit Diameter	6 mm 0.236 in
Diameter Over Jacket	9.2 mm 0.362 in

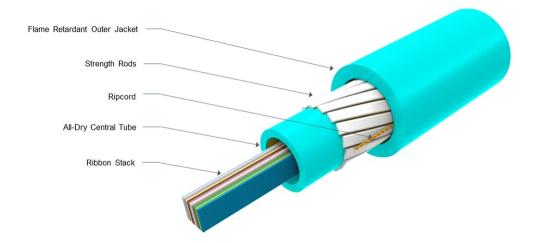
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	182.9 mm 7.201 in
Minimum Bend Radius, unloaded	91.4 mm 3.598 in
Tensile Load, long term, maximum	334 N 75.086 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	25 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	2.94 N-m 26.021 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
Optical Specifications	
Fiber Type	OM4, bend insensitive OM4, bend insensitive

Environmental Specifications

Installation temperature

Operating Temperature

0 °C to +70 °C (+32 °F to +158 °F) -20 °C to +70 °C (-4 °F to +158 °F)

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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 (UL) and c(UL)
Flame Test Method	NFPA 130 NFPA 262

Environmental Test Specifications

Heat Age	-20 °C to +85 °C (-4 °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	-20 °C to +70 °C (-4 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1

Packaging and Weights

Cable weight

85 kg/km | 57.117 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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

Included Products

CS-5X-RB – 50µm OM4 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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50µm OM4 Bend-Insensitive Multimode Fiber

Product Classification

Product TypeOptical fiberGeneral Specifications125 μmCladding Diameter125 μmCladding Diameter Tolerance±1.0 μmCladding Non-Circularity, maximum1%Coating Diameter (Colored)250 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Diameter Tolerance (Uncolored)±10 μmCore Diameter50 μmFore Diameter Tolerance±3 μmProof Test689.476 N/mm² 100000 psi	Portfolio	CommScope®
Cladding Diameter125 μmCladding Diameter Tolerance±1.0 μmCladding Non-Circularity, maximum1%Coating Diameter (Colored)250 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter Tolerance50 μmCore Diameter Tolerance±10 μmCore Diameter Tolerance12 μm	Product Type	Optical fiber
Cladding Diameter Tolerance±1.0 μmCladding Non-Circularity, maximum1 %Coating Diameter (Colored)250 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Diameter Tolerance (Uncolored)±0 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±10 μm	General Specifications	
Cladding Non-Circularity, maximum1 %Coating Diameter (Colored)250 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±3 μmCore Diameter Tolerance±1 μm	Cladding Diameter	125 µm
Coating Diameter (Colored)250 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±13 μmCore Diameter Tolerance±1 μm	Cladding Diameter Tolerance	±1.0 μm
Coating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±3 μmCore Diameter Tolerance1 μm	Cladding Non-Circularity, maximum	1 %
Coating Diameter Tolerance (Colored)±15 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±3 μmCore/Clad Offset, maximum1 μm	Coating Diameter (Colored)	250 µm
Coating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±3 μmCore/Clad Offset, maximum1 μm	Coating Diameter (Uncolored)	245 µm
Coating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±3 μmCore/Clad Offset, maximum1 μm	Coating Diameter Tolerance (Colored)	±15 μm
Core Diameter50 μmCore Diameter Tolerance±3 μmCore/Clad Offset, maximum1 μm	Coating Diameter Tolerance (Uncolored)	±10 μm
Core Diameter Tolerance±3 μmCore/Clad Offset, maximum1 μm	Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum 1 µm	Core Diameter	50 µm
	Core Diameter Tolerance	±3 μm
Proof Test 689.476 N/mm² 100000 psi	Core/Clad Offset, maximum	1 µm
	Proof Test	689.476 N/mm² 100000 psi

Mechanical Specifications

Macrobending, 15 mm Ø mandrel, 2 turns	0.20 dB @ 850 nm 0.50 dB @ 1,300 nm
Macrobending, 30 mm Ø mandrel, 2 turns	0.10 dB @ 850 nm 0.30 dB @ 1,300 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	18

Optical Specifications

Numerical Aperture	0.2
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.2 dB
Zero Dispersion Slope, maximum	0.105 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1340 nm

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CS-5X-RB

Zero Dispersion Wavelength, minimum

1295 nm

Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance	1,000 m @ 850 nm 550 m @ 1,300 nm
10 Gbps Ethernet Distance	550 m @ 850 nm
Attenuation, maximum	1.50 dB/km @ 1,300 nm 3.50 dB/km @ 850 nm
Backscatter Coefficient	-68.0 dB @ 850 nm -75.7 dB @ 1,300 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 Note	Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
Index of Refraction	1.478 @ 1,300 nm 1.482 @ 850 nm
Standards Compliance	TIA-492AAAD (OM4)

Environmental Specifications

Heat Aging, maximum	0.10 dB/km @ 85 °C
Temperature Dependence, maximum	0.1 dB/km
Temperature Humidity Cycling, maximum	0.1 dB/km
Water Immersion, maximum	0.10 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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