760211599 | Z-192-CN-RB-F12NS/5Y/99F



Fiber indoor/outdoor Cable, LSZH Riser All-Dielectric Central Tube Ribbon, Multimode OM3 bend insensitive, 192-fiber, feet jacket marking, black jacket color

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	Z-CN
General Specifications	
Cable Type	Ribbon central tube
Construction Type	Non-armored
Subunit Type	Gel-free
Fibers per Ribbon, quantity	12
Jacket Color	Black
Jacket Marking	Feet
Total Fiber Count	192
Dimensions	
Buffer Tube/Subunit Diameter	10.4 mm 0.409 in
Diameter Over Jacket	18 mm 0.709 in

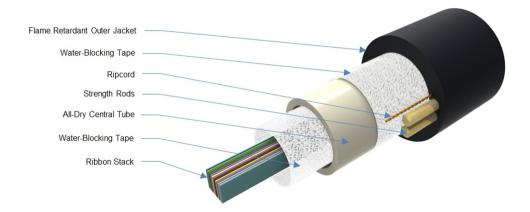
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	360.7 mm 14.201 in
Minimum Bend Radius, unloaded	180.3 mm 7.098 in
Tensile Load, long term, maximum	800 N 179.847 lbf
Tensile Load, short term, maximum	2670 N 600.24 lbf
Compression	22 N/mm 125.623 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

OM3, bend insensitive | OM3, bend insensitive

Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)

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Cable Qualification Standards	ANSI/ICEA S-104-696 Telcordia GR-20 Telcordia GR-409	
Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH) Riser	
Flame Test Listing	NEC OFNR (UL) and c(UL)	
Flame Test Method	UL 1666	
Jacket UV Resistance	UV stabilized	
Water Penetration	24 h	
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5	

Environmental Test Specifications

Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)	
Heat Age Test Method	IEC 60794-1 F9	
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)	
Low High Bend Test Method	FOTP-37 IEC 60794-1 E11	
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)	
Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1	

Packaging and Weights

305 kg/km | 204.951 lb/kft

Regulatory Compliance/Certifications

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

Included Products

CS-5Y-RB – 50µm OM3 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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50µm OM3 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-5Y-RB

Zero Dispersion Wavelength, minimum

1295 nm

Optical Specifications, Wavelength Specific

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	2,000 MHz-km @ 850 nm 500 MHz-km @ 1,300 nm
Bandwidth, OFL, minimum	1,500 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-492AAAC (OM3)

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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