760126565 | R-008-DZ-5L-FSUAQ



Fiber indoor cable, LazrSPEED® Riser Distribution Interlocking Aluminum Armored with Riser Jacket 8-Fiber Single-Unit, Gel-free, Multimode OM3, 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	R-DZ
General Specifications	
Armor Type	Interlocking aluminum
Cable Type	Distribution
Construction Type	Armored
Subunit Type	Gel-free
Jacket Color	Aqua
Jacket Marking	Feet
Total Fiber Count	8
Dimensions	
Diameter Over Armor	10.8 mm 0.425 in
Diameter Over Jacket	12.8 mm 0.504 in

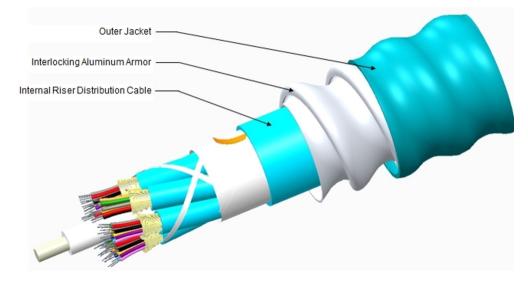
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	192 mm 7.559 in
Minimum Bend Radius, unloaded	128 mm 5.039 in
Tensile Load, long term, maximum	200 N 44.962 lbf
Tensile Load, short term, maximum	667 N 149.948 lbf
Compression	85 N/mm 485.363 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	25 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	147 m 482.283 ft
Optical Specifications	

Fiber Type

OM3, LazrSPEED® 300 | OM3, LazrSPEED® 300

Environmental Specifications

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COMMSCOPE®

760126565 | R-008-DZ-5L-FSUAQ

Installation temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Operating Temperature	-20 °C to +70 °C (-4 °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	Riser
Flame Test Listing	NEC OFCR (ETL) and c(ETL)
Flame Test Method	UL 1666

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	-20 °C to +70 °C (-4 °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

139 kg/km | 93.404 lb/kft

Regulatory Compliance/Certifications

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

Included Products

CS-5L-TB

LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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LazrSPEED® 300

LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

Product Classification

Product TypeOptical fiberGeneral Specifications125 μmCladding Diameter125 μmCladding Diameter Tolerance40.8 μmCladding Non-Circularity, maximum1%Coating Diameter (Colored)254 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)10 μmCoating Diameter Tolerance (Uncolored)10 μmCoating Diameter Tolerance (Uncolored)20 μmCore Diameter Tolerance (Uncolored)20 μmCore Diameter Tolerance50 μmCore Diameter Tolerance89.476 N/mm² 10000 psiTore Joameter Tolerance900 μmCore/Clad Offset, maximum900 μmTight Buffer Diameter Tolerance900 μmTight Buffer Diameter Tolerance0.20 dB @ Storm 0.50 dB @ J.300 nmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ Storm 0.50 dB @ J.300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ J.300 nm 0.50 dB @ J.300 nmCoating Strip Force, maximum0.50 H @ J.200 lbf	Portfolio	CommScope®
Cladding Diameter125 μmCladding Diameter Tolerance±0.8 μmCladding Non-Circularity, maximum1%Coating Diameter (Colored)254 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±10 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating Cladding Concentricity Error, maximum12 μmCore Diameter Tolerance50 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test699.476 N/mm² 10000 psiTight Buffer Diameter Tolerance±40 μmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1.300 nmMacrobending, 75 mm Ø mandrel, 100 turns.50 dB @ 1.300 nm / 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns.50 dB @ 1.300 nm / 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1.300 nm / 0.50 dB @ 850 nm	Product Type	Optical fiber
Cladding Diameter Tolerance±0.8 μmCladding Non-Circularity, maximum1 %Coating Diameter (Colored)254 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±7 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter Tolerance±40 μmMecrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmKacrobending, 75 mm Ø mandrel, 100 turns8.9 N 2.0011bf	General Specifications	
Cladding Non-Circularity, maximum1 %Coating Diameter (Colored)254 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±7 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter Tolerance±40 μmMechanical Specifications0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 2 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmNacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nm	Cladding Diameter	125 µm
Coating Diameter (Colored)254 μmCoating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±7 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter Tolerance±40 μmMecrhanical Specifications	Cladding Diameter Tolerance	±0.8 µm
Coating Diameter (Uncolored)245 μmCoating Diameter Tolerance (Colored)±7 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter Tolerance±40 μmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmKoating Strip Force, maximum0.50 dB @ 1,300 nmCoating Strip Force, maximum0.50 dB @ 1,300 nm	Cladding Non-Circularity, maximum	1 %
Coating Diameter Tolerance (Colored)±7 μmCoating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter Tolerance±40 μmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmKoating Strip Force, maximum8.9 N 2.001 lbf	Coating Diameter (Colored)	254 µm
Coating Diameter Tolerance (Uncolored)±10 μmCoating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter900 μmTight Buffer Diameter Tolerance±40 μmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmCoating Strip Force, maximum8.9 N 2.001 lbf	Coating Diameter (Uncolored)	245 µm
Coating/Cladding Concentricity Error, maximum12 μmCore Diameter50 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiProof Test900 μmTight Buffer Diameter Tolerance±40 μmMechanical Specifications0.20 dB@ 850 nm 0.50 dB@ 1,300 nmMacrobending, 30 mm Ø mandrel, 2 turns0.10 dB@ 850 nm 0.50 dB@ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB@ 1,300 nm 0.50 dB@ 850 nmCoating Strip Force, maximum8.9 N 2.001 lbf	Coating Diameter Tolerance (Colored)	±7 μm
Core Diameter50 μmCore Diameter Tolerance±2.5 μmCore/Clad Offset, maximum1.5 μmProof Test689.476 N/mm² 100000 psiTight Buffer Diameter900 μmTight Buffer Diameter Tolerance±40 μmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmCoating Strip Force, maximum8.9 N 2.001 lbf	Coating Diameter Tolerance (Uncolored)	±10 μm
Core Diameter Tolerance ±2.5 μm Core/Clad Offset, maximum 1.5 μm Proof Test 689.476 N/mm² 100000 psi Tight Buffer Diameter 900 μm Tight Buffer Diameter Tolerance ±40 μm Macrobending, 15 mm Ø mandrel, 2 turns 0.20 dB @ 850 nm 0.50 dB @ 1,300 nm Macrobending, 75 mm Ø mandrel, 2 turns 0.10 dB @ 850 nm 0.50 dB @ 1,300 nm Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm 0.50 dB @ 850 nm	Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum 1.5 μm Proof Test 689.476 N/mm² 100000 psi Tight Buffer Diameter 900 μm Tight Buffer Diameter Tolerance ±40 μm Mechanical Specifications 0.20 dB@ 850 nm 0.50 dB@ 1,300 nm Macrobending, 15 mm Ø mandrel, 2 turns 0.10 dB@ 850 nm 0.50 dB@ 1,300 nm Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB@ 1,300 nm 0.50 dB@ 850 nm Karobending, 75 mm Ø mandrel, 100 turns 0.50 dB@ 1,300 nm 0.50 dB@ 850 nm	Core Diameter	50 μm
Proof Test 689.476 N/mm² 100000 psi Tight Buffer Diameter 900 μm Tight Buffer Diameter Tolerance ±40 μm Mechanical Specifications 0.20 dB @ 850 nm 0.50 dB @ 1,300 nm Macrobending, 15 mm Ø mandrel, 2 turns 0.10 dB @ 850 nm 0.30 dB @ 1,300 nm Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm 0.50 dB @ 850 nm Coating Strip Force, maximum 8.9 N 2.001 lbf	Core Diameter Tolerance	±2.5 µm
Tight Buffer Diameter 900 μm Tight Buffer Diameter Tolerance ±40 μm Mechanical Specifications 0.20 dB @ 850 nm 0.50 dB @ 1,300 nm Macrobending, 15 mm Ø mandrel, 2 turns 0.10 dB @ 850 nm 0.30 dB @ 1,300 nm Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm 0.50 dB @ 850 nm Coating Strip Force, maximum 8.9 N 2.001 lbf	Core/Clad Offset, maximum	1.5 µm
Tight Buffer Diameter Tolerance±40 μmMechanical Specifications0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.30 dB @ 1,300 nmMacrobending, 30 mm Ø mandrel, 2 turns0.10 dB @ 850 nm 0.30 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmCoating Strip Force, maximum8.9 N 2.001 lbf	Proof Test	689.476 N/mm² 100000 psi
Mechanical SpecificationsMacrobending, 15 mm Ø mandrel, 2 turns0.20 dB @ 850 nm 0.50 dB @ 1,300 nmMacrobending, 30 mm Ø mandrel, 2 turns0.10 dB @ 850 nm 0.30 dB @ 1,300 nmMacrobending, 75 mm Ø mandrel, 100 turns0.50 dB @ 1,300 nm 0.50 dB @ 850 nmCoating Strip Force, maximum8.9 N 2.001 lbf	Tight Buffer Diameter	900 µm
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 Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm 0.50 dB @ 850 nm Coating Strip Force, maximum 8.9 N 2.001 lbf	Tight Buffer Diameter Tolerance	±40 μm
Macrobending, 30 mm Ø mandrel, 2 turns 0.10 dB @ 850 nm 0.30 dB @ 1,300 nm Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm 0.50 dB @ 850 nm Coating Strip Force, maximum 8.9 N 2.001 lbf	Mechanical Specifications	
Macrobending, 75 mm Ø mandrel, 100 turns 0.50 dB @ 1,300 nm 0.50 dB @ 850 nm Coating Strip Force, maximum 8.9 N 2.001 lbf	Macrobending, 15 mm Ø mandrel, 2 turns	0.20 dB @ 850 nm 0.50 dB @ 1,300 nm
Coating Strip Force, maximum8.9 N 2.001 lbf	Macrobending, 30 mm Ø mandrel, 2 turns	0.10 dB @ 850 nm 0.30 dB @ 1,300 nm
	Macrobending, 75 mm Ø mandrel, 100 turns	0.50 dB @ 1,300 nm 0.50 dB @ 850 nm
Coating Strip Force, minimum1.3 N 0.292 lbf	Coating Strip Force, maximum	8.9 N 2.001 lbf
	Coating Strip Force, minimum	1.3 N 0.292 lbf

Dynamic Fatigue Parameter, minimum

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CS-5L-TB

Optical Specifications

Numerical Aperture	0.2
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.15 dB
Zero Dispersion Slope, maximum	0.105 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1316 nm
Zero Dispersion Wavelength, minimum	1297 nm

Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance	1,020 m @ 850 nm 600 m @ 1,300 nm
10 Gbps Ethernet Distance	300 m @ 850 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, 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	0.70 ps/m @ 850 nm
Differential Mode Delay Note	Superior to ANSI/TIA TIA-492AAAF and IEC 60793-2-10 at 850 nm
Index of Refraction	1.479 @ 1,300 nm 1.483 @ 850 nm
Standards Compliance	ANSI/TIA-492AAAF (OM3)

Environmental Specifications

Heat Aging, maximum	0.20 dB/km @ 85 °C
Temperature Dependence, maximum	0.1 dB/km
Temperature Humidity Cycling, maximum	0.2 dB/km
Water Immersion, maximum	0.20 dB/km @ 23 °C

Regulatory Compliance/Certifications

Agency Clas	sification
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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)

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up to 95% relative humidity

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