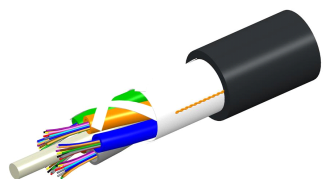


LazrSPEED® Single Jacket All-Dielectric, Gel-Free, Outdoor Stranded Loose Tube Cable



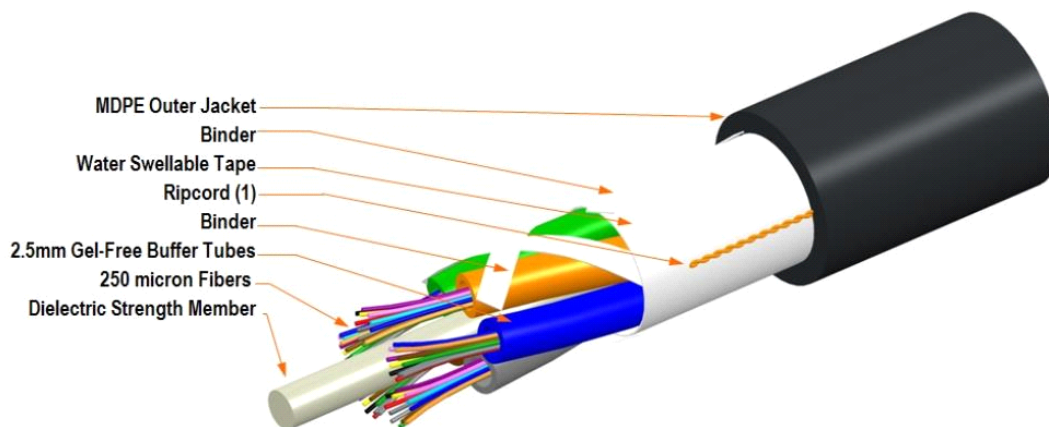
Product Classification

Portfolio	CommScope®
Product Type	Fiber OSP cable
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America

Standards And Qualifications

Cable Qualification Standards	ANSI/ICEA S-87-640 EN 187105 Telcordia GR-20
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Representative Image



General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-free

Construction Materials

Fiber Type Solution	OM3, LazrSPEED® 300
Jacket Material	PE
Total Fiber Count	96

Fiber Type	OM3, LazrSPEED® 300
Fiber Type, quantity	96
Fibers per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

Dimensions

Buffer Tube/Subunit Diameter	2.50 mm 0.10 in
Cable Weight	90.0 kg/km 61.0 lb/kft
Diameter Over Jacket	12.00 mm 0.47 in
Subunit, quantity	8

Physical Specifications

Minimum Bend Radius, loaded	18.1 cm 7.1 in
Minimum Bend Radius, unloaded	12.0 cm 4.7 in
Tensile Load, long term, maximum	800 N 180 lbf
Tensile Load, short term, maximum	2700 N 607 lbf
Vertical Rise, maximum	904.0 m 2966.0 ft

Environmental Specifications

Environmental Space	Aerial, lashed Buried
Installation Temperature	-30 °C to +70 °C (-22 °F to +158 °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)

Mechanical Test Specifications

Compression	22 N/mm 125 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	35 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	4.41 N-m 3.25 ft 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
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze	-2 °C 28 °F
Cable Freeze Test Method	FOTP-98 IEC 60794-1 F15
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

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

CS-5L-LT (Product Component—not orderable) — LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

LazrSPEED® 300

Product Classification

Portfolio	CommScope®
Product Type	Optical fiber

Optical Specifications, Wavelength Specific

Standards Compliance	TIA-492AAAC (OM3)
Attenuation, maximum	1.00 dB/km @ 1,300 nm 3.00 dB/km @ 850 nm
Differential Mode Delay Note	Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
Index of Refraction	1.479 @ 1,300 nm 1.483 @ 850 nm
1 Gbps Ethernet Distance	1,020 m @ 850 nm 600 m @ 1,300 nm
10 Gbps Ethernet Distance	300 m @ 850 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 0.88 ps/m @ 1,300 nm
Backscatter Coefficient	-68.0 dB @ 850 nm -75.7 dB @ 1,300 nm

Physical Specifications

Cladding Diameter	125.0 µm
Cladding Diameter Tolerance	±0.8 µm
Cladding Non-Circularity, maximum	1.0 %
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	50.0 µm
Core Diameter Tolerance	±2.5 µm
Core/Clad Offset, maximum	1.5 µm

Optical Specifications, General

Numerical Aperture	0.200
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

Mechanical Specifications

Coating Strip Force, maximum 8.9 N | 2.0 lbf
Coating Strip Force, minimum 1.3 N | 0.3 lbf
Dynamic Fatigue Parameter, minimum 18
Macrobending, 15 mm mandrel, 2 turns 0.20 dB @ 850 nm | 0.50 dB @ 1,300 nm
Macrobending, 30 mm mandrel, 2 turns 0.10 dB @ 850 nm | 0.30 dB @ 1,300 nm
Proof Test 689.48 N/mm² | 100000.00 psi

Environmental Specifications

Heat Aging, maximum 0.20 dB/km @ 85 °C
Temperature Dependence, maximum 0.10 dB/km
Temperature Humidity Cycling, maximum 0.20 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