

LazrSPEED® Single Jacket All-Dielectric, Gel-Filled, Outdoor Central Tube Cable

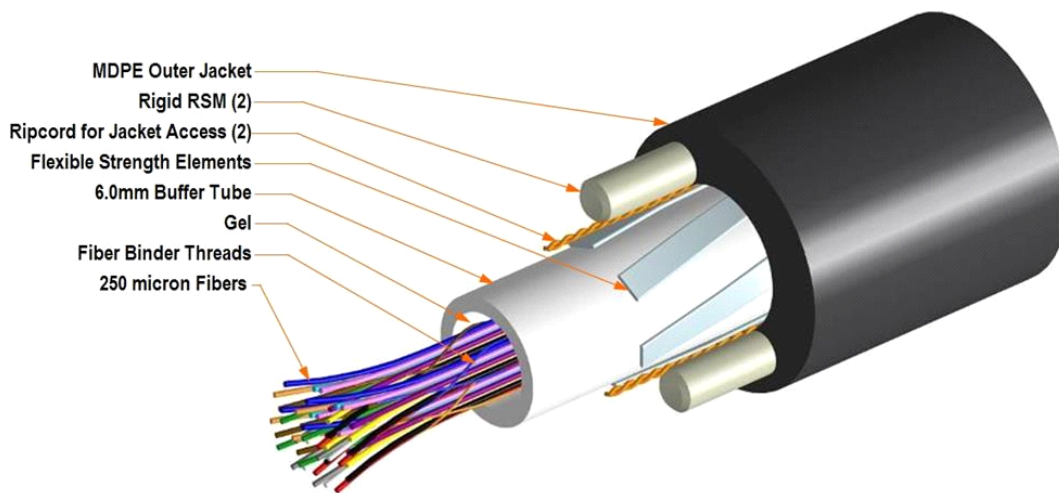
### Product Classification

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

### Standards And Qualifications

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



### General Specifications

<b>Cable Type</b>	Central loose tube
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-filled

### Construction Materials

<b>Fiber Type Solution</b>	OM3, LazrSPEED® 300
<b>Jacket Material</b>	PE
<b>Total Fiber Count</b>	36

<b>Fiber Type</b>	OM3, LazrSPEED® 300
<b>Fiber Type, quantity</b>	36
<b>Fibers per Subunit, quantity</b>	12
<b>Jacket Color</b>	Black
<b>Jacket UV Resistance</b>	UV stabilized

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	6.00 mm   0.24 in
<b>Cable Weight</b>	128.0 kg/km   86.0 lb/kft
<b>Diameter Over Jacket</b>	12.10 mm   0.48 in
<b>Subunit, quantity</b>	3

## Physical Specifications

<b>Minimum Bend Radius, loaded</b>	18.2 cm   7.2 in
<b>Minimum Bend Radius, unloaded</b>	12.1 cm   4.8 in
<b>Tensile Load, long term, maximum</b>	180 lbf   800 N
<b>Tensile Load, short term, maximum</b>	2700 N   607 lbf
<b>Vertical Rise, maximum</b>	638.0 m   2093.2 ft

## Environmental Specifications

<b>Environmental Space</b>	Aerial, lashed   Buried
<b>Installation Temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)

## Mechanical Test Specifications

<b>Compression</b>	125 lb/in   22 N/mm
<b>Compression Test Method</b>	FOTP-41   IEC 60794-1 E3
<b>Flex</b>	35 cycles
<b>Flex Test Method</b>	FOTP-104   IEC 60794-1 E6
<b>Impact</b>	2.17 ft lb   2.94 N-m
<b>Impact Test Method</b>	FOTP-25   IEC 60794-1 E4
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	FOTP-33   IEC 60794-1 E1
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	FOTP-85   IEC 60794-1 E7
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	FOTP-82   IEC 60794-1 F5

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C   28 °F
<b>Cable Freeze Test Method</b>	FOTP-98   IEC 60794-1 F15
<b>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	FOTP-81   IEC 60794-1 E14
<b>Heat Age</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 F9
<b>Low High Bend</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Low High Bend Test Method</b>	FOTP-37   IEC 60794-1 E11
<b>Temperature Cycle</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3   IEC 60794-1 F1

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Optical fiber
<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America

Optical Specifications, Wavelength Specific

<b>Standards Compliance</b>	TIA-492AAAC (OM3)
<b>Attenuation, maximum</b>	1.00 dB/km @ 1,300 nm   3.00 dB/km @ 850 nm
<b>Differential Mode Delay Note</b>	Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
<b>Index of Refraction</b>	1.479 @ 1,300 nm   1.483 @ 850 nm
<b>1 Gbps Ethernet Distance</b>	1,020 m @ 850 nm   600 m @ 1,300 nm
<b>10 Gbps Ethernet Distance</b>	300 m @ 850 nm
<b>Bandwidth, Laser, minimum</b>	2,000 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm
<b>Bandwidth, OFL, minimum</b>	1,500 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm
<b>Differential Mode Delay</b>	0.70 ps/m @ 850 nm   0.88 ps/m @ 1,300 nm
<b>Backscatter Coefficient</b>	-68.0 dB @ 850 nm   -75.7 dB @ 1,300 nm

Physical Specifications

<b>Cladding Diameter</b>	125.0 µm
<b>Cladding Diameter Tolerance</b>	±0.8 µm
<b>Cladding Non-Circularity, maximum</b>	1.0 %
<b>Coating Diameter (Colored)</b>	254 µm
<b>Coating Diameter (Uncolored)</b>	245 µm
<b>Coating Diameter Tolerance (Colored)</b>	±7 µm
<b>Coating Diameter Tolerance (Uncolored)</b>	±10 µm
<b>Coating/Cladding Concentricity Error, maximum</b>	12 µm
<b>Core Diameter</b>	50.0 µm
<b>Core Diameter Tolerance</b>	±2.5 µm
<b>Core/Clad Offset, maximum</b>	1.5 µm

Optical Specifications, General

<b>Numerical Aperture</b>	0.200
<b>Numerical Aperture Tolerance</b>	±0.015
<b>Point Defects, maximum</b>	0.15 dB
<b>Zero Dispersion Slope, maximum</b>	0.105 ps/[km-nm-nm]

<b>Zero Dispersion Wavelength, maximum</b>	1316 nm
<b>Zero Dispersion Wavelength, minimum</b>	1297 nm

## Mechanical Specifications

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

## Environmental Specifications

<b>Heat Aging, maximum</b>	0.20 dB/km @ 85 °C
<b>Temperature Dependence, maximum</b>	0.10 dB/km
<b>Temperature Humidity Cycling, maximum</b>	0.20 dB/km
<b>Water Immersion, maximum</b>	0.20 dB/km @ 23 °C

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
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### \* Footnotes

<b>Temperature Dependence, maximum</b>	Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)
<b>Temperature Humidity Cycling, maximum</b>	Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity