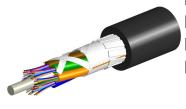
# 760243301 | C-004-LN-5L-M04BK/20G/D



Fiber indoor/outdoor cable, LazrSPEED®, Mini Single Jacket, All-Dielectric, Low Smoke Zero Halogen (LSZH), 4 fiber, Gel-Filled, Stranded Loose Tube, Multimode OM3, Meters jacket marking, Black jacket color, Dca flame rating

#### Product Classification

Regional Availability	EMEA
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	C-LN
General Specifications	
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	5
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB OPTICAL CABLE 5L MM 4 FIBER EN50575 CLASS D [SERIAL NUMBER] [MM/YY] [METRE MARK]
Subunit, quantity	1
Fibers per Subunit, quantity	4
Total Fiber Count	4
Dimensions	
Buffer Tube/Subunit Diameter	2 mm   0.079 in
Diameter Over Jacket	11 mm   0.433 in

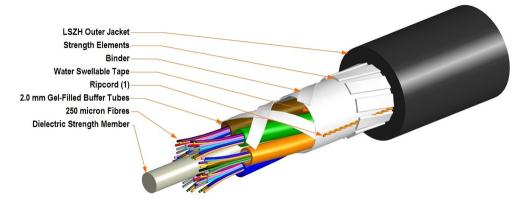
## Representative Image

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## Mechanical Specifications

Minimum Bend Radius, loaded	165 mm   6.496 in
Minimum Bend Radius, unloaded	110 mm   4.331 in
Tensile Load, long term, maximum	800 N   179.847 lbf
Tensile Load, short term, maximum	2700 N   606.984 lbf
Compression	22 N/mm   125.623 lb/in
Compression Test Method	IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	IEC 60794-1 E6
Impact	10 N-m   88.507 in lb
Impact Test Method	IEC 60794-1 E4
Strain	See long and short term tensile loads
Strain Test Method	IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	IEC 60794-1 E7
Vertical Rise, maximum	643 m   2,109.58 ft
Optical Specifications	
Fiber Type	OM3   OM3, LazrSPEED® 300

#### **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)

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**COMMSCOPE**°

# 760243301 | C-004-LN-5L-M04BK/20G/D

Cable Qualification Standards EN 187105   IEC 60794-1-2
EN50575 CPR Cable EuroClass Fire Performance Dca
EN50575 CPR Cable EuroClass Smoke Rating s1a
EN50575 CPR Cable EuroClass Droplets Rating d0
EN50575 CPR Cable EuroClass Acidity Rating a1
Environmental Space Aerial, lashed Buried Low Smoke Zero Halogen (LSZH)
Flame Test Method IEC 60332-1-2 IEC 60754-2 IEC 61034-2
Jacket UV Resistance UV stabilized
Water Penetration24 h
Water Penetration Test MethodIEC 60794-1 F5

### Environmental Test Specifications

Cable Freeze	-2 °C   28.4 °F
Cable Freeze Test Method	IEC 60794-1 F15
Drip	70 °C   158 °F
Drip Test Method	IEC 60794-1 E14
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	IEC 60794-1 E11
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1 F1

#### Packaging and Weights

Cable weight127 kg/	m	85.34 lb/kft
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#### Included Products

CS-5L-LT

LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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#### LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

# LazrSPEED® 300

### Product Classification

Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±0.8 µm
Cladding Non-Circularity, maximum	1 %
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 µm
Core Diameter Tolerance	±2.5 µm
Core/Clad Offset, maximum	1.5 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
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
Coating Strip Force, minimum	1.3 N   0.292 lbf
Dynamic Fatigue Parameter, minimum	18

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# CS-5L-LT

# **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   0.88 ps/m @ 1,300 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
Standards Compliance	TIA-492AAAC (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 C	Classification
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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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