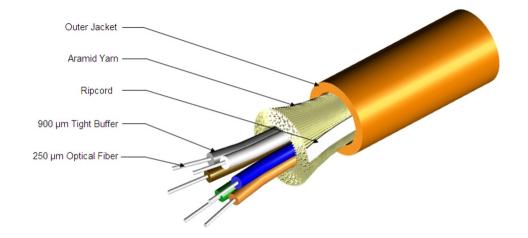
# N-004-DS-5K-FSU

Fiber indoor cable, LazrSPEED® Low Smoke Zero Halogen Riser Distribution, 4 fiber single-unit, Multimode OM4, Gel-free, Feet jacket marking, Dca Flame rating

#### Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America
Portfolio	CommScope®
Product Type	Fiber indoor cable
Product Series	N-DS
General Specifications	
Cable Type	Distribution
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Marking	Feet
Total Fiber Count	4
Dimensions	
Diameter Over Jacket	4.65 mm   0.183 in

# Representative Image



# Mechanical Specifications

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# N-004-DS-5K-FSU

Minimum Bend Radius, loaded	70 mm   2.756 in
Minimum Bend Radius, unloaded	46 mm   1.811 in
Tensile Load, long term, maximum	200 N   44.962 lbf
Tensile Load, short term, maximum	667 N   149.948 lbf
Compression	10 N/mm   57.101 lb/in
Compression Test Method	FOTP-41   IEC 60794-1 E3
Flex	100 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
Vertical Rise, maximum	500 m   1,640.42 ft
Optical Specifications	
Fiber Type	OM4, LazrSPEED® 550   OM4, LazrSPEED® 550

# **Environmental Specifications**

Installation temperature	-10 °C to +60 °C (+14 °F to +140 °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	
EN50575 CPR Cable EuroClass Fire Performance	Dca	
EN50575 CPR Cable EuroClass Smoke Rating	s1a	
EN50575 CPR Cable EuroClass Droplets Rating	d1	
EN50575 CPR Cable EuroClass Acidity Rating	a2	
Environmental Space	Low Smoke Zero Halogen (LSZH)   Riser	
Flame Test Listing	NEC OFNR-ST1 (ETL) and c(ETL)	
Flame Test Method	IEC 60332-3   IEC 60754-2   IEC 61034-2   UL 1666   UL 1685	

# Environmental Test Specifications

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COMMSCOPE

# N-004-DS-5K-FSU

-20 °C to +85 °C (-4 °F to +185 °F)
IEC 60794-1 F9
-10 °C to +60 °C (+14 °F to +140 °F)
FOTP-37   IEC 60794-1 E11
-20 °C to +70 °C (-4 °F to +158 °F)
FOTP-3   IEC 60794-1 F1
E 

### Packaging and Weights

Cable weight
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21 kg/km | 14.111 lb/kft

#### Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
CENELEC	

### Included Products

CS-5K-TB

 LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

# \* Footnotes

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

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#### LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber

# LazrSPEED® 550

### 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
Tight Buffer Diameter	900 µm
Tight Buffer Diameter Tolerance	±40 µm
Mechanical Specifications	

# Magrobonding 15 mm (mandral 2 turns

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

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# CS-5K-TB

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	0.15 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	ce 1,110 m @ 850 nm   600 m @ 1,300 nm	
10 Gbps Ethernet Distance	550 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	minimum 4,700 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm	
Bandwidth, OFL, minimum	h, OFL, minimum 3,500 MHz-km @ 850 nm   500 MHz-km @ 1,300 nm	
Differential Mode Delay	le 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	<b>tof Refraction</b> 1.479 @ 1,300 nm   1.483 @ 850 nm	
Standards Compliance	ANSI/TIA-492AAAF (OM4)   IEC 60793-2-10, A1 (OM4)	

### **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

Classification

Agency
ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

# \* Footnotes

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# CS-5K-TB

Temperature Dependence, maximumTemperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)Temperature Humidity Cycling, maximumTemperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F)

up to 95% relative humidity

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