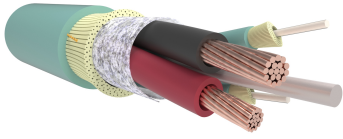


# 760250283 | P-002-DS-HY-5L-F29AQ/2X12AWG



LazrSPEED® Plenum Hybrid Distribution Cable, 2 simplex single fiber, 2 conductor 12 AWG, OM3 Bend Insensitive

## OBSOLETE

This product was discontinued on: May 25, 2022

## Product Classification

<b>Regional Availability</b>	North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Hybrid cable, copper and fiber
<b>Product Brand</b>	LazrSPEED®

## General Specifications

<b>Cable Type</b>	Distribution   Hybrid   Stranded indoor
<b>Conductor Type, singles</b>	Stranded
<b>Conductors, quantity</b>	2
<b>Construction Type</b>	Non-armored
<b>Fiber Short Description</b>	P-001-SP29
<b>Subunit Type</b>	Gel-free
<b>Filler, quantity</b>	0
<b>Jacket Color</b>	Aqua
<b>Subunit Jacket Color</b>	Aqua
<b>Subunit, quantity</b>	2
<b>Fibers per Subunit, quantity</b>	1
<b>Total Fiber Count</b>	2

## Dimensions

<b>Buffer Tube/Subunit Diameter</b>	2.794 mm   0.11 in
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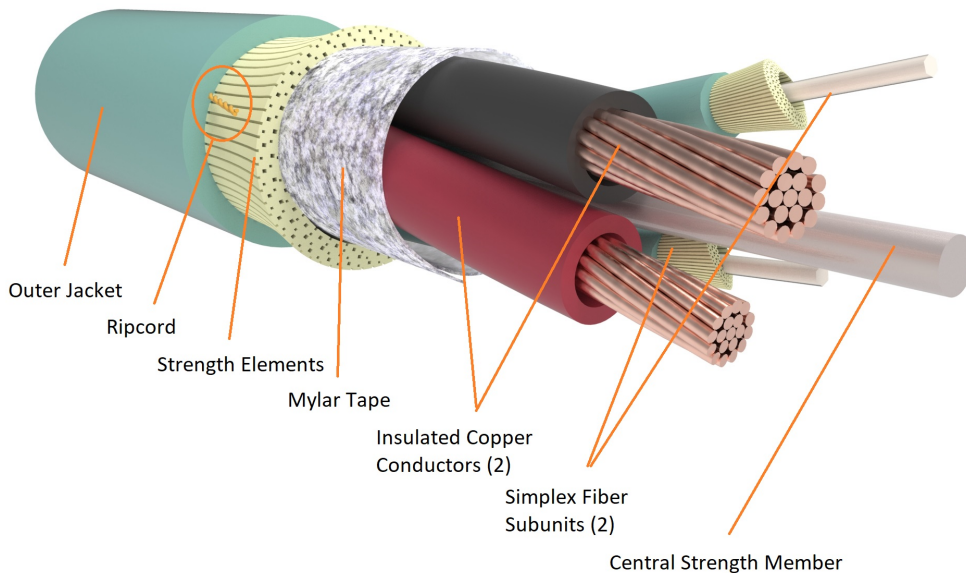
**Diameter Over Jacket** 9.144 mm | 0.36 in

**Conductor Gauge** 12 AWG

## Electrical Specifications

**Conductor dc Resistance** 5.413 ohms/km | 1.65 ohms/kft

## Representative Image



## Material Specifications

**Conductor Material** Bare copper | Stranded copper wire

**Insulation Material, singles** PVC

**Jacket Material** Fire retardant PVC

**Ripcord Material** Polyester

## Mechanical Specifications

**Minimum Bend Radius, loaded** 135.89 mm | 5.35 in

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<b>Minimum Bend Radius, unloaded</b>	90.678 mm   3.57 in
<b>Tensile Load, long term, maximum</b>	240.204 N   54 lbf
<b>Tensile Load, short term, maximum</b>	796.231 N   179 lbf
<b>Compression</b>	1.018 kg/mm   57 lb/in
<b>Compression Test Method</b>	FOTP-41
<b>Flex</b>	25 cycles
<b>Flex Test Method</b>	FOTP-104
<b>Impact</b>	2.17 ft lb   2.942 N-m
<b>Impact Test Method</b>	FOTP-25
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	FOTP-33
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	FOTP-85
<b>Vertical Rise, maximum</b>	183.642 m   602.5 ft

## Optical Specifications

<b>Fiber Type</b>	OM3, LazrSPEED®   OM3, bend insensitive
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## Environmental Specifications

<b>Installation temperature</b>	0 °C to +70 °C (-32 °F to +158 °F)
<b>Operating Temperature</b>	-20 °C to +70 °C (-4 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-83-596   Telcordia GR-409   UL 13   UL 444
<b>Environmental Space</b>	Plenum   Wireless installation
<b>Flame Test Listing</b>	NEC CL3P-OF (ETL) and c(ETL)   NEC CMP-OF (ETL) and c(ETL)
<b>Flame Test Method</b>	NFPA 262

## Environmental Test Specifications

<b>Low High Bend</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Low High Bend Test Method</b>	FOTP-37
<b>Temperature Cycle</b>	0 °C to +70 °C (+32 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3

## Packaging and Weights

**Cable weight** 133.339 kg/km | 89.6 lb/kft

## Included Products

CS-5L-TB - LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

## \* Footnotes

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

# CS-5L-TB

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## LazrSPEED® 300

LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

### Product Classification

<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Optical fiber

### General Specifications

<b>Cladding Diameter</b>	125 µm
<b>Cladding Diameter Tolerance</b>	±0.8 µm
<b>Cladding Non-Circularity, maximum</b>	1 %
<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 µm
<b>Core Diameter Tolerance</b>	±2.5 µm
<b>Core/Clad Offset, maximum</b>	1.5 µm
<b>Proof Test</b>	689.476 N/mm <sup>2</sup>   100000 psi
<b>Tight Buffer Diameter</b>	900 µm
<b>Tight Buffer Diameter Tolerance</b>	±40 µm

### Mechanical Specifications

<b>Macrobending, 15 mm Ø mandrel, 2 turns</b>	0.20 dB @ 850 nm   0.50 dB @ 1,300 nm
<b>Macrobending, 30 mm Ø mandrel, 2 turns</b>	0.10 dB @ 850 nm   0.30 dB @ 1,300 nm
<b>Macrobending, 75 mm Ø mandrel, 100 turns</b>	0.50 dB @ 1,300 nm   0.50 dB @ 850 nm
<b>Coating Strip Force, maximum</b>	8.9 N   2.001 lbf
<b>Coating Strip Force, minimum</b>	1.3 N   0.292 lbf
<b>Dynamic Fatigue Parameter, minimum</b>	18

### Optical Specifications

<b>Numerical Aperture</b>	0.2
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# CS-5L-TB

<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

## Optical Specifications, Wavelength Specific

<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>Attenuation, maximum</b>	1.00 dB/km @ 1,300 nm   3.00 dB/km @ 850 nm
<b>Backscatter Coefficient</b>	-68.0 dB @ 850 nm   -75.7 dB @ 1,300 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>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>Standards Compliance</b>	TIA-492AAAC (OM3)

## Environmental Specifications

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

## Regulatory Compliance/Certifications

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



## \* 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

