## 2-599691-3 | C-024-CA-5L-M24BK/28G/GY



Fiber indoor/outdoor Cable, Armored LSZH, OM3, 24 fiber, loose tube, gel-filled

#### **Product Classification**

Regional Availability

Australia/New Zealand | EMEA

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

**Product Series** C-CA

General Specifications

Armor Type Corrugated steel

Cable TypeLoose tubeConstruction TypeArmoredSubunit TypeGel-filledJacket ColorBlackJacket MarkingMeters

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB SYSTEM F.O.CABLE X-599691-3 CSA GEL LOOSE TUBE

24X50/125 OM3 ULSZH [Serial NUMBER] [METER MARK]

Fibers per Subunit, quantity 24

Total Fiber Count 24

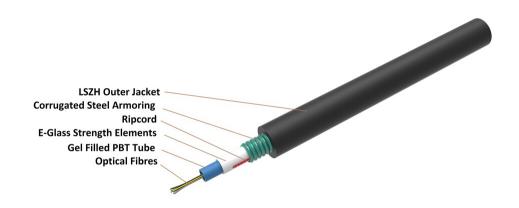
Dimensions

Buffer Tube/Subunit Diameter2.8 mm | 0.11 inDiameter Over Jacket10.5 mm | 0.413 in

Representative Image



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## Material Specifications

Jacket Material Low Smoke Zero Halogen (LSZH)

## Mechanical Specifications

Minimum Bend Radius, loaded210 mm8.268 inMinimum Bend Radius, unloaded160 mm6.299 inTensile Load, long term, maximum625 N140.506 lbfTensile Load, short term, maximum1200 N269.771 lbf

Cable Crush Resistance, maximum 30 N/mm | 171.304 lb/in

**Compression Test Method** IEC 60794-1-2 E3

 Impact
 5 N-m | 44.254 in lb

 Impact Test Method
 IEC 60794-1-21 E4

**Twist** 5 cycles

Twist Test Method IEC 60794-1-21 E7

**Optical Specifications** 

Fiber Type OM3

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 nm

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## **Environmental Specifications**

Installation temperature $-20 \, ^{\circ}\text{C}$  to  $+70 \, ^{\circ}\text{C}$  (-4 °F to  $+158 \, ^{\circ}\text{F}$ )Operating Temperature $-20 \, ^{\circ}\text{C}$  to  $+70 \, ^{\circ}\text{C}$  (-4 °F to  $+158 \, ^{\circ}\text{F}$ )Storage Temperature $-20 \, ^{\circ}\text{C}$  to  $+75 \, ^{\circ}\text{C}$  (-4 °F to  $+167 \, ^{\circ}\text{F}$ )

Cable Qualification Standards IEC 60794-1-2

Environmental Space Buried | Ducted | Indoor/Outdoor | Outdoor

Flame Test Method | IEC 60332-1 | IEC 60754-1 | IEC 60754-2 | IEC 61034-2

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F5

**Environmental Test Specifications** 

**Temperature Cycle**  $-20 \,^{\circ}\text{C}$  to  $+70 \,^{\circ}\text{C}$  (-4  $^{\circ}\text{F}$  to  $+158 \,^{\circ}\text{F}$ )

**Temperature Cycle Test Method** IEC 60794-1-2 F1

Packaging and Weights

**Cable weight** 151 kg/km | 101.467 lb/kft

#### Included Products

CS-5L-LT – 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

## 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  $1.5 \, \mu m$ 

**Proof Test** 689.476 N/mm<sup>2</sup> | 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 $8.9 \, \text{N}$  $2.001 \, \text{lbf}$ Coating Strip Force, minimum $1.3 \, \text{N}$  $0.292 \, \text{lbf}$ 

**Dynamic Fatigue Parameter, minimum** 18

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# CS-5L-LT

## **Optical Specifications**

Numerical Aperture 0.2

Numerical Aperture Tolerance±0.015Point Defects, maximum0.15 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, maximum0.1 dB/kmTemperature Humidity Cycling, maximum0.2 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)

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# CS-5L-LT

up to 95% relative humidity

