## 2-1716211-3 | C-012-L2-5L-M12BK/40G/GY/FS/B



LazrSPEED® Indoor/Outdoor, 120 min Fire Survival, Low Smoke Zero Halogen (LSZH), Gel-Filled, Central Loose Tube cable. Provides Rodent Resistance.

#### Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA

Portfolio CommScope®

**Product Type** Fiber indoor/outdoor cable

Product Series C-L2

General Specifications

Armor Type Corrugated steel

Cable TypeLoose tubeSubunit TypeGel-filledJacket ColorBlackJacket MarkingMetersJacket Marking MethodInkjet

Jacket Marking Text COMMSCOPE GB F O CABLE X-1716211-3 INT/EXT FIRE SURVIVAL 12 X

50/125 OM3 [Serial NUMBER] [METRE MARK]

Fibers per Subunit, quantity 12

Total Fiber Count 12

Dimensions

 Cable Length
 2000 m | 6,561.68 ft

 Buffer Tube/Subunit Diameter
 4 mm | 0.157 in

 Diameter Over Jacket
 12.7 mm | 0.5 in

Mechanical Specifications

Minimum Bend Radius, loaded330 mm12.992 inMinimum Bend Radius, unloaded255 mm10.039 inTensile Load, long term, maximum400 N | 89.924 lbf



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**Tensile Load, short term, maximum** 1400 N | 314.733 lbf

Compression 30 N/mm | 171.304 lb/in

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

**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 5 cycles

Twist Test Method IEC 60794-1 E7

**Optical Specifications** 

**Fiber Type** OM3, LazrSPEED®

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 1.00 dB/km @ 1,310 nm | 3.00 dB/km @ 850 nm

Standards Compliance TIA-492AAAC (OM3)

**Environmental Specifications** 

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

**Storage Temperature**  $-40 \,^{\circ}\text{C}$  to  $+70 \,^{\circ}\text{C}$  ( $-40 \,^{\circ}\text{F}$  to  $+158 \,^{\circ}\text{F}$ )

**Cable Qualification Standards** EN 187105 | IEC 60794-1-2

EN50575 CPR Cable EuroClass Fire PerformanceB2caEN50575 CPR Cable EuroClass Smoke Ratings1bEN50575 CPR Cable EuroClass Droplets Ratingd0

EN50575 CPR Cable EuroClass Acidity Rating a1

Environmental Space Aerial, lashed | Buried | Universal Low Smoke Zero Halogen (ULSZH)

Flame Test Listing EN 50399 | IEC 60332-1-2

Flame Test Method | IEC 60331-25 | IEC 60332-1 | IEC 60754-1 | IEC 60754-2 | IEC

61034-2 | NES 713 (<=5 - jacket material only)

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F5

**Environmental Test Specifications** 

**COMMSCOPE®** 

# 2-1716211-3 | C-012-L2-5L-M12BK/40G/GY/FS/B

Low High Bend Test Method IEC 60794-1 E11

**Temperature Cycle**  $-25 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \, (-13 \,^{\circ}\text{F to } +158 \,^{\circ}\text{F})$ 

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

Packaging and Weights

**Cable weight** 216 kg/km | 145.145 lb/kft

### Regulatory Compliance/Certifications

Agency Classification

CHINA-ROHS Below maximum concentration value

REACH-SVHC Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS Compliant UK-ROHS Compliant



#### 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

**COMMSCOPE®** 

# 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

