## 2-599172-2 | C-012-CA-5K-M12AQ/28G/GRP/D



Fiber Optic Cable, 12-fiber, OM4, ULSZH, loose tube, gel-filled. Provides Rodent Resistance.

#### **OBSOLETE**

This product was discontinued on: March 31, 2023

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | EMEA

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

Product Series C-CA

General Specifications

Armor Type Non-metallic rods

Cable TypeLoose tubeSubunit TypeGel-filled

Filler, quantity 1

Jacket ColorAquaJacket MarkingMetersFibers per Subunit, quantity12Total Fiber Count12

**Dimensions** 

 Cable Length
 2000 m | 6,561.68 ft

 Diameter Over Jacket
 9 mm | 0.354 in

Mechanical Specifications

Minimum Bend Radius, loaded228.6 mm | 9 inMinimum Bend Radius, unloaded175.3 mm | 6.902 inTensile Load, long term, maximum750 N | 168.607 lbf

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Tensile Load, short term, maximum 3000 N | 674.427 lbf

**Compression** 30 N/mm | 171.304 lb/in

Compression Test Method IEC 60794-1-2 E3

**Optical Specifications** 

Fiber Type OM4, LazrSPEED® | OM4, LazrSPEED® 550

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 1.00 dB/km @ 1,300 nm | 3.50 dB/km @ 850 nm

Standards Compliance IEC 60794-1 | TIA-492AAAD (OM4)

**Environmental Specifications** 

Installation temperature -5 °C to +50 °C (+23 °F to +122 °F)

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

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

EN50575 CPR Cable EuroClass Fire Performance Dca

EN50575 CPR Cable EuroClass Smoke Rating \$2

EN50575 CPR Cable EuroClass Droplets Rating d2

EN50575 CPR Cable EuroClass Acidity Rating a1

Environmental Space Universal Low Smoke Zero Halogen (ULSZH)

**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** 94 kg/km | 63.165 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



# 2-599172-2 | C-012-CA-5K-M12AQ/28G/GRP/D



#### Included Products

CS-8W-LT

 TeraSPEED® G652D/G657A1 Singlemode Fiber

### \* Footnotes

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



## TeraSPEED® G652D/G657A1 Singlemode Fiber

8.3 µm

 $0.5 \, \mu m$ 

## TeraSPEED®

#### **Product Classification**

Portfolio CommScope®

**Product Type** Optical fiber

General Specifications

**Cladding Diameter** 125 µm

**Cladding Diameter Tolerance**  $\pm 0.7 \, \mu m$ 

Cladding Non-Circularity, maximum 0.7 %

**Coating Diameter (Colored)** 249 µm

**Coating Diameter (Uncolored)** 242 µm

**Coating Diameter Tolerance (Colored)** ±13 µm

**Coating Diameter Tolerance (Uncolored)** ±5 µm

Coating/Cladding Concentricity Error, maximum 12 µm

Core/Clad Offset, maximum

**Proof Test** 689.476 N/mm<sup>2</sup> | 100000 psi

Dimensions

**Core Diameter** 

Fiber Curl, minimum 4 m | 13.123 ft

Mechanical Specifications

Macrobending, 20 mm Ø mandrel, 1 turn 0.75 dB @ 1,550 nm | 1.50 dB @ 1,625 nm

Macrobending, 30 mm Ø mandrel, 10 turns 0.25 dB @ 1,550 nm | 1.00 dB @ 1,625 nm

Macrobending, 60 mm Ø mandrel, 100 turns 0.05 dB @ 1,550 nm | 0.05 dB @ 1,625 nm

**Coating Strip Force, maximum** 8.9 N | 2.001 lbf

**COMMSCOPE®** 

## CS-8W-LT

Coating Strip Force, minimum 1.3 N | 0.292 lbf

**Dynamic Fatigue Parameter, minimum** 20

**Optical Specifications** 

Cabled Cutoff Wavelength, maximum1260 nmPoint Defects, maximum0.1 dB

**Zero Dispersion Slope, maximum** 0.092 ps/[km-nm-nm]

Zero Dispersion Wavelength, maximum1324 nmZero Dispersion Wavelength, minimum1300 nm

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.22 dB/km @ 1,550 nm | 0.25 dB/km @ 1,490

nm | 0.25 dB/km @ 1,625 nm | 0.36 dB/km @ 1,310

nm | 0.36 dB/km @ 1,385 nm

**Attenuation, typical** 0.19 dB/km @ 1,550 nm | 0.33 dB/km @ 1,310 nm

**Backscatter Coefficient** -79.6 dB @ 1,310 nm | -82.1 dB @ 1,550 nm

**Dispersion, maximum** 18 ps(nm-km) at 1550 nm | 3.5 ps(nm-km) from 1285

nm to 1330 nm at 1310 nm

**Index of Refraction** 1.467 @ 1,310 nm | 1.467 @ 1,385 nm | 1.468 @ 1,550

nm

**Mode Field Diameter** 10.4 μm @ 1,550 nm | 9.2 μm @ 1,310 nm | 9.6 μm @

1,385 nm

**Mode Field Diameter Tolerance**  $\pm 0.4 \, \mu \text{m} \ @ \ 1310 \, \text{nm} \ | \ \pm 0.5 \, \mu \text{m} \ @ \ 1550 \, \text{nm} \ | \ \pm 0.6 \, \mu \text{m}$ 

@ 1385 nm

Polarization Mode Dispersion Link Design Value, maximum 0.04 ps/sgrt(km)

Standards Compliance IEC 60793-2-10, edition 6, model A1a.4 | ITU-T G.652.

D | ITU-T G.657.A1 | TIA-492CAAB (OS2)

**Environmental Specifications** 

Heat Aging, maximum 0.05 dB/km @ 85 °C

 Temperature Dependence, maximum
 0.05 dB/km

 Temperature Humidity Cycling, maximum
 0.05 dB/km

Water Immersion, maximum 0.05 dB/km @ 23 °C

Regulatory Compliance/Certifications

Agency Classification

COMMSCOPE®

# CS-8W-LT

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)

up to 95% relative humidity

