

Fiber indoor/outdoor cable, TeraSPEED®, Mini Single Jacket, All-Dielectric, Low Smoke Zero Halogen (LSZH), 48 fiber, Singlemode G.657. A2, Gel-Filled, Stranded Loose Tube, Black jacket color, Meters cable marking, Eca flame rating

#### **Product Classification**

Regional Availability EMEA

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

**Product Series** C-LN

General Specifications

Cable Type Stranded loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Filler, quantity 2

Jacket Color Black

Jacket Marking Meters

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE G657A2 SM 48 FIBER EN50575 CLASS

E [SERIAL NUMBER] [MM/YY] [METRE MARK]

Subunit, quantity 4

Fibers per Subunit, quantity 12

Total Fiber Count 48

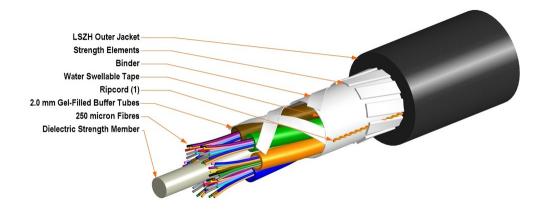
**Dimensions** 

**Buffer Tube/Subunit Diameter** 2 mm | 0.079 in

**Diameter Over Jacket** 11 mm | 0.433 in

Representative Image





#### Mechanical Specifications

Minimum Bend Radius, loaded165 mm6.496 inMinimum Bend Radius, unloaded110 mm4.331 in

Tensile Load, long term, maximum 800 N | 179.847 lbf

**Tensile Load, short term, maximum** 2700 N | 606.984 lbf

**Compression** 22 N/mm | 125.623 lb/in

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

Flex 25 cycles

Flex Test Method IEC 60794-1 E6

**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 10 cycles

Twist Test Method IEC 60794-1 E7

**Vertical Rise, maximum** 643 m | 2,109.58 ft

**Optical Specifications** 

**Fiber Type** G.657.A2 | G.657.A2

### **Environmental Specifications**

Installation temperature  $-30 \,^{\circ}\text{C}$  to  $+60 \,^{\circ}\text{C}$  (-22  $^{\circ}\text{F}$  to  $+140 \,^{\circ}\text{F}$ )

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



Storage Temperature  $-40 \,^{\circ}\text{C}$  to  $+75 \,^{\circ}\text{C}$  ( $-40 \,^{\circ}\text{F}$  to  $+167 \,^{\circ}\text{F}$ )

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

EN50575 CPR Cable EuroClass Fire Performance Eca

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

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

Jacket UV Resistance UV stabilized

Water Penetration 24 h

Water Penetration Test Method IEC 60794-1 F5

**Environmental Test Specifications** 

Cable Freeze -2 °C | 28.4 °F

Cable Freeze Test Method IEC 60794-1 F15

**Drip** 70 °C | 158 °F

**Drip Test Method** IEC 60794-1 E14

**Heat Age**  $-40 \,^{\circ}\text{C}$  to  $+85 \,^{\circ}\text{C}$  ( $-40 \,^{\circ}\text{F}$  to  $+185 \,^{\circ}\text{F}$ )

Heat Age Test Method IEC 60794-1 F9

Low High Bend -30 °C to +60 °C (-22 °F to +140 °F)

Low High Bend Test Method IEC 60794-1 E11

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

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

Packaging and Weights

Cable weight 127 kg/km | 85.34 lb/kft

#### Regulatory Compliance/Certifications

#### Agency Classification

CENELEC EN 50575 compliant, Declaration of Performance (DoP) available

CHINA-ROHS Below maximum concentration value

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

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

ROHS Compliant UK-ROHS Compliant





#### Included Products

CS-8G-LT

 Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

#### \* Footnotes

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

