## 760256144 | C-144-LN-8W-M12BK/15D/B2



Fiber indoor/outdoor cable, ZWP® Low Smoke Zero Halogen, 144 fiber Microsheath, Singlemode, Gel-free, Meters jacket marking, Black jacket color, B2ca flame rating

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | EMEA

Portfolio CommScope®

Product Type Fiber indoor/outdoor cable

**Product Series** C-LN

General Specifications

Cable Type Stranded microsheath tube

Subunit TypeGel-freeJacket ColorBlackJacket MarkingMetersJacket Marking MethodInkjet

Jacket Marking Text COMMSCOPE GB OPTICAL CABLE 760256144 144 x G652D 9/125

EN50575 CLASS B ULSZH [Serial number] [metre mark]

Fibers per Subunit, quantity 12

Total Fiber Count 144

Dimensions

Buffer Tube/Subunit Diameter1.5 mm | 0.059 inDiameter Over Jacket10.7 mm | 0.421 in

Mechanical Specifications

Minimum Bend Radius, unloaded130 mm | 5.118 inTensile Load, long term, maximum360 N | 80.931 lbfTensile Load, short term, maximum1200 N | 269.771 lbfCable Crush Resistance, maximum10 N/mm | 57.101 lb/in

 Compression Test Method
 IEC 60794-1-21 E3

 Impact
 2 N-m | 17.701 in lb



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Impact Test MethodIEC 60794-1-21 E4Strain Test MethodIEC 60794-1-21 E1

**Optical Specifications** 

**Fiber Type** G.652.D and G.657.A1

Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.25 dB/km @ 1,550 nm | 0.27 dB/km @ 1,625 nm | 0.36 dB/km @

1,310 nm

**Environmental Specifications** 

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

EN50575 CPR Cable EuroClass Fire PerformanceB2caEN50575 CPR Cable EuroClass Smoke Ratings1aEN50575 CPR Cable EuroClass Droplets Ratingd0EN50575 CPR Cable EuroClass Acidity Ratinga1

Environmental Space Universal Low Smoke Zero Halogen (ULSZH)

Water Penetration Test Method IEC 60794-1 F4

**Environmental Test Specifications** 

**Temperature Cycle** -40 °C to +70 °C (-40 °F to +158 °F)

**Temperature Cycle Test Method** IEC 60794-1-22 F1

Packaging and Weights

**Cable weight** 123.5 kg/km | 82.988 lb/kft

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

## TeraSPEED®

#### **Product Classification**

Portfolio CommScope®

**Product Type** Optical fiber

General Specifications

Cladding Diameter 125 µm

 ${\bf Cladding\ Non-Circularity,\ maximum} \\ {\bf 0.7\ \%}$ 

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 Diameter 8.3 µm

Core/Clad Offset, maximum 0.5 µm

**Proof Test** 689.476 N/mm² | 100000 psi

Dimensions

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 nm |  $\pm 0.5 \, \mu \text{m}$  @ 1550 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

