# 810009850/DB | C-004-CN-8W-M04YL/28D/GY





Fiber indoor/outdoor cable, LightScope ZWP®, dry loose tube, 4 fiber, Singlemode G.652.D and G.657.A1, Gel-free, Yellow jacket color, Dca flame rating. 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-CN

General Specifications

Cable TypeLoose tubeSubunit TypeGel-freeJacket ColorYellow

Jacket Marking Meters

Fibers per Subunit, quantity 4

Total Fiber Count 4

Dimensions

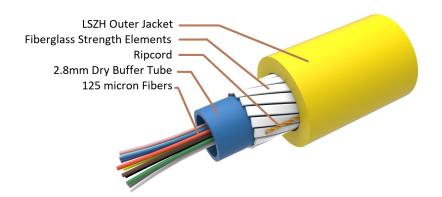
 Cable Length
 4000 m | 13,123.36 ft

 Diameter Over Jacket
 6.4 mm | 0.252 in

Representative Image



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### Mechanical Specifications

Minimum Bend Radius, loaded139.7 mm | 5.5 inMinimum Bend Radius, unloaded129.5 mm | 5.098 inTensile Load, long term, maximum650 N | 146.126 lbfTensile Load, short term, maximum1250 N | 281.011 lbf

Optical Specifications

**Fiber Type** G.652.D and G.657.A1, TeraSPEED® | OS2

## Optical Specifications, Wavelength Specific

**Attenuation, maximum** 0.35 dB/km @ 1,300 nm | 0.35 dB/km @ 1,550 nm | 0.45 dB/km @

1.310 nm

Standards Compliance IEC 60794-1 | TIA-492CAAB (OS2)

### **Environmental Specifications**

Operating Temperature  $-10 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \text{ (+14 }^{\circ}\text{F to } +158 \,^{\circ}\text{F)}$ Storage Temperature  $-10 \,^{\circ}\text{C} \text{ to } +70 \,^{\circ}\text{C} \text{ (+14 }^{\circ}\text{F to } +158 \,^{\circ}\text{F)}$ 

EN50575 CPR Cable EuroClass Fire PerformanceDcaEN50575 CPR Cable EuroClass Smoke Ratings2EN50575 CPR Cable EuroClass Droplets Ratingd2

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# 810009850/DB | C-004-CN-8W-M04YL/28D/GY

**EN50575 CPR Cable EuroClass Acidity Rating** 

a1

**Environmental Space** 

Universal Low Smoke Zero Halogen (ULSZH)

Packaging and Weights

Cable weight

47 kg/km | 31.583 lb/kft

#### Included Products

DB-8W-LT – LightScope ZWP® Singlemode Fiber

#### \* Footnotes

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



# DB-8W-LT



### LightScope ZWP® Singlemode Fiber

 $0.5 \, \mu m$ 

#### **Product Classification**

 Portfolio
 CommScope®

 Product Type
 Optical fiber

General Specifications

**Cladding Diameter** 125 µm **Cladding Diameter Tolerance**  $\pm 0.7 \, \mu m$ 0.7 % **Cladding Non-Circularity, maximum Coating Diameter (Colored)** 249 um **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**  $8.3 \, \mu m$ 

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

**Dimensions** 

Core/Clad Offset, maximum

**Fiber Curl, minimum** 4 m | 13.123 ft

Mechanical Specifications

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

 Macrobending, 30 mm Ø mandrel, 10 turns
 0.25 dB @ 1,550 nm
 1 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, maximum8.9 N | 2.001 lbfCoating Strip Force, minimum1.3 N | 0.292 lbf

Dynamic Fatigue Parameter, minimum 20

Optical Specifications

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

**COMMSCOPE®** 

# DB-8W-LT

**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/m @ 1,550 nm | 0.33 dB/m @ 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

1,385 nm

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

@ 1385 nm

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

Standards Compliance ITU-T G.652.D | ITU-T G.657.A1

# **Environmental Specifications**

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

Temperature Dependence, maximum0.05 dB/kmTemperature Humidity Cycling, maximum0.05 dB/km

Water Immersion, maximum 0.05 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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# DB-8W-LT

up to 95% relative humidity

