

Fiber indoor/outdoor cable, LightScope ZWP®, Single Jacket All-Dielectric, Plenum Rated, Singlemode G.652.D and G.657.A1, 6 fiber, Gel-Free, Stranded Loose Tube, PVDF jacket, Meters jacket marking, Black jacket color

#### OBSOLETE

#### Product Classification

| Regional Availability        | Asia   Australia/New Zealand   Latin America   Middle East<br>/Africa   North America |
|------------------------------|---|
| Portfolio                    | CommScope®  |
| Product Type                 | Fiber indoor/outdoor cable  |
| Product Series               | P-LN  |
| General Specifications       |   |
| Cable Type                   | Stranded loose tube   |
| Construction Type            | Non-armored   |
| Subunit Type                 | Gel-free  |
| Filler, quantity             | 4   |
| Jacket Color                 | Black   |
| Jacket Marking               | Feet  |
| Subunit, quantity            | 1   |
| Fibers per Subunit, quantity | 6   |
| Total Fiber Count            | 6   |
| Dimensions                   |   |
| Buffer Tube/Subunit Diameter | 2.5 mm   0.098 in   |
| Diameter Over Jacket         | 9.7 mm   0.382 in   |
|                              |   |

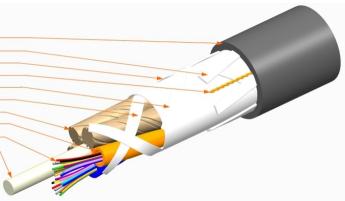
#### Representative Image

Page 1 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 26, 2024



Plenum-Rated Outer Jacket Strength Elements Binder Ripcord (1) Water Swellable Tape Binder Paper Fillers 2.5 mm Gel-Free Buffer Tubes 250 micron Fibers Dielectric Strength Member



Plenum-Rated Outer Jacket Strength Elements Binder Water Swellable Tape Ripcord (1) Binder 2.5 mm Gel-Free Buffer Tubes 250 micron Fibers Dielectric Strength Member

Mechanical Specifications

| Minimum Bend Radius, loaded       | 145 mm   5.709 in                     |
|-----------------------------------|---------------------------------------|
| Minimum Bend Radius, unloaded     | 96.5 mm   3.799 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           | FOTP-41   IEC 60794-1 E3              |
| Flex                              | 25 cycles                             |
| Flex Test Method                  | FOTP-104   IEC 60794-1 E6             |
| Impact                            | 2.94 N-m   26.021 in lb               |
| Impact Test Method                | FOTP-25   IEC 60794-1 E4              |
| Strain                            | See long and short term tensile loads |
| Strain Test Method                | FOTP-33   IEC 60794-1 E1              |
| Twist                             | 10 cycles                             |

Page 2 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 26, 2024

**COMMSCOPE**°

**Twist Test Method** 

Vertical Rise, maximum

#### **Optical Specifications**

Fiber Type

FOTP-85 | IEC 60794-1 E7 880 m | 2,887.139 ft

G.652.D and G.657.A1 | G.652.D and G.657.A1

## **Environmental Specifications**

| Installation temperature       | -30 °C to +70 °C (-22 °F to +158 °F)               |
|--------------------------------|--|
| Operating Temperature          | -40 °C to +70 °C (-40 °F to +158 °F)               |
| Storage Temperature            | -40 °C to +75 °C (-40 °F to +167 °F)               |
| Cable Qualification Standards  | ANSI/ICEA S-104-696   EN 187105   Telcordia GR-409 |
| Environmental Space            | Plenum   |
| Flame Test Listing             | NEC OFNP (ETL) and c(ETL)                          |
| Flame Test Method              | NFPA 130   NFPA 262                                |
| Jacket UV Resistance           | UV stabilized                                      |
| Water Penentration             | 24 h   |
| Water Penentration Test Method | FOTP-82   IEC 60794-1 F5                           |

## **Environmental Test Specifications**

| Cable Freeze                  | -2 °C   28.4 °F                      |
|-------------------------------|--------------------------------------|
| Cable Freeze Test Method      | FOTP-98   IEC 60794-1 F15            |
| Heat Age                      | -40 °C to +85 °C (-40 °F to +185 °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     | FOTP-37   IEC 60794-1 E11            |
| Temperature Cycle             | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3   IEC 60794-1 F1              |
|                               |                                      |

#### Packaging and Weights

#### Cable weight

92 kg/km | 61.821 lb/kft

#### Regulatory Compliance/Certifications

#### Classification

ISO 9001:2015

Agency

Designed, manufactured and/or distributed under this quality management system

Page 3 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 26, 2024





#### Included Products

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

\* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 4 of 4

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: March 26, 2024

