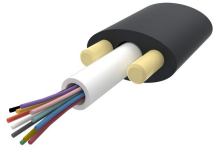


# 810010252/50 | O-024-DF-8W-F24NS/30G (5000')



Fiber outdoor drop cable, LightScope ZWP® Self-Supporting All-Dielectric, Singlemode G.652.D and G.657.A1, 24 fiber, Arid Core construction, Gel-filled, central loose tube, no ripcords, Feet jacket marking, Black jacket color, 5000 ft

- \*Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber drop cable  |
| <b>Product Series</b>        | O-DF  |
| <b>Government Funding</b>    | Build America Buy America (BABA) compliant*                         |

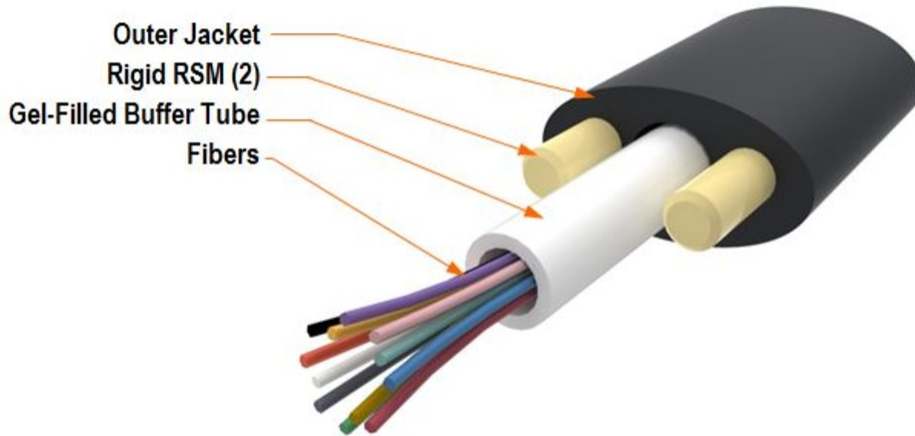
## General Specifications

|                                     |                    |
|-------------------------------------|--------------------|
| <b>Cable Type</b>                   | Central loose tube |
| <b>Construction Type</b>            | Non-armored        |
| <b>Subunit Type</b>                 | Gel-filled         |
| <b>Jacket Color</b>                 | Black              |
| <b>Jacket Marking</b>               | Feet               |
| <b>Subunit, quantity</b>            | 1                  |
| <b>Fibers per Subunit, quantity</b> | 24                 |
| <b>Total Fiber Count</b>            | 24                 |

## Dimensions

|                                     |                   |
|-------------------------------------|-------------------|
| <b>Height Over Jacket</b>           | 4.5 mm   0.177 in |
| <b>Cable Length</b>                 | 1,524 m   5000 ft |
| <b>Buffer Tube/Subunit Diameter</b> | 3 mm   0.118 in   |
| <b>Diameter Over Jacket</b>         | 8 mm   0.315 in   |

## Representative Image



## Material Specifications

**Jacket Material** PE

## Mechanical Specifications

|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, loaded</b>       | 90 mm   3.543 in                      |
| <b>Minimum Bend Radius, unloaded</b>     | 64 mm   2.52 in                       |
| <b>Tensile Load, long term, maximum</b>  | 400 N   89.924 lbf                    |
| <b>Tensile Load, short term, maximum</b> | 1334 N   299.895 lbf                  |
| <b>Compression</b>                       | 10 N/mm   57.101 lb/in                |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 35 cycles                             |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 2.94 N-m   26.021 in lb               |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 1047 m   3,435.039 ft                 |

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## Optical Specifications

**Fiber Type** 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-110-717

**Environmental Space** Aerial, self-support | Buried

**Jacket UV Resistance** UV stabilized

**Water Penetration** 24 h

**Water Penetration 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

**Drip** 70 °C | 158 °F

**Drip Test Method** FOTP-81 | IEC 60794-1 E14

**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** 39 kg/km | 26.207 lb/kft

## Included Products

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

## \* Footnotes

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