

Fiber outdoor drop cable, LightScope ZWP® Self-Supporting Non-Armored Figure-8, Singlemode G.652.D and G.657.A1, 6 fiber Arid Core construction with 0.109 in messenger, Gel-filled, central loose tube, Feet jacket marking, Black jacket color

- \*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>	M-MN
<b>Government Funding</b>	Build America Buy America (BABA) compliant*

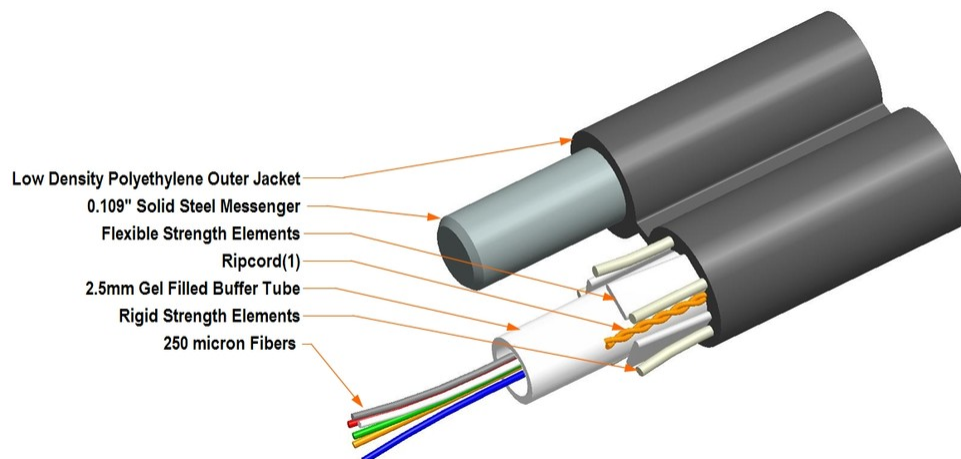
## General Specifications

<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>	6
<b>Total Fiber Count</b>	6

## Dimensions

<b>Height Over Jacket</b>	10.7 mm   0.421 in
<b>Buffer Tube/Subunit Diameter</b>	2.5 mm   0.098 in
<b>Diameter Over Jacket</b>	5.1 mm   0.201 in
<b>Diameter Over Messenger Jacket</b>	4.3 mm   0.169 in

## Representative Image



## Material Specifications

**Jacket Material** PE

## Mechanical Specifications

**Minimum Bend Radius, loaded** 77 mm | 3.031 in  
**Minimum Bend Radius, unloaded** 51 mm | 2.008 in  
**Tensile Load, long term, maximum** 400 N | 89.924 lbf  
**Tensile Load, short term, maximum** 1334 N | 299.895 lbf  
**Compression** 10 N/mm | 57.101 lb/in  
**Compression Test Method** FOTP-41 | IEC 60794-1 E3  
**Flex** 35 cycles  
**Flex Test Method** FOTP-104 | IEC 60794-1 E6  
**Impact** 1.47 N-m | 13.011 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  
**Twist Test Method** FOTP-85 | IEC 60794-1 E7  
**Vertical Rise, maximum** 529 m | 1,735.564 ft

## Optical Specifications

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

## Environmental Specifications

<b>Installation temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-110-717
<b>Environmental Space</b>	Aerial, self-support
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	FOTP-82   IEC 60794-1 F5

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C   28.4 °F
<b>Cable Freeze Test Method</b>	FOTP-98   IEC 60794-1 F15
<b>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	FOTP-81   IEC 60794-1 E14
<b>Heat Age</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 F9
<b>Low High Bend</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Low High Bend Test Method</b>	FOTP-37   IEC 60794-1 E11
<b>Temperature Cycle</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3   IEC 60794-1 F1

## Packaging and Weights

<b>Cable weight</b>	77 kg/km   51.742 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



## Included Products

DB-8W-LT

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- LightScope ZWP® Singlemode  
Fiber

\* Footnotes

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