

# 8108202/DB | O-012-DF-HY-F12NS/8W012 /1X24AWG



Fiber Hybrid drop cable, LightScope® ZWP Fiber + Tone Wire Outdoor, 12 fiber Arid Core construction, central loose tube, Gel-filled, Singlemode G.652.D and G.657.A1, 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>	Hybrid cable, fiber and tone-wire
<b>Product Brand</b>	LightScope® ZWP
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

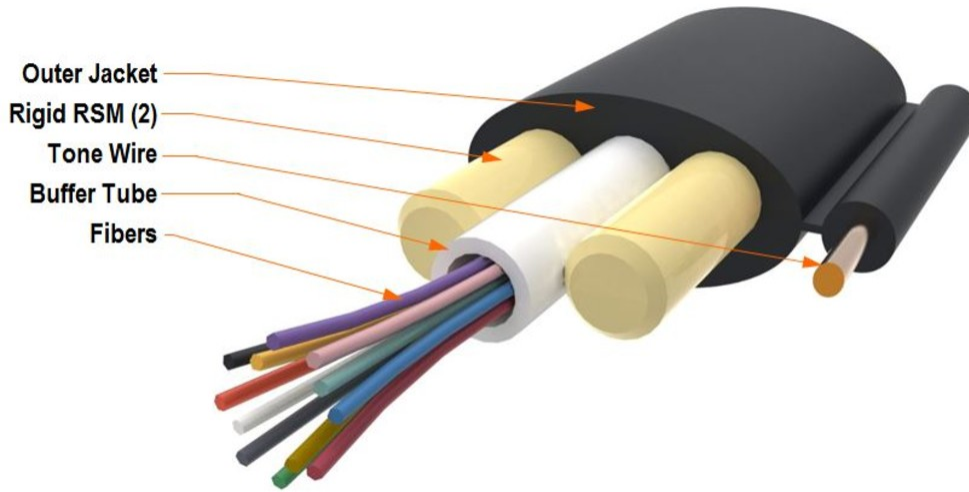
## General Specifications

<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>Location of Manufacturing</b>	Catawba, North Carolina
<b>Subunit, quantity</b>	1
<b>Fibers per Subunit, quantity</b>	12
<b>Tone Wire, quantity</b>	1
<b>Total Fiber Count</b>	12

## Dimensions

<b>Height Over Jacket</b>	4.572 mm   0.18 in
<b>Buffer Tube/Subunit Diameter</b>	3.048 mm   0.12 in
<b>Diameter Over Jacket</b>	9.906 mm   0.39 in
<b>Diameter Over Messenger Jacket</b>	2.032 mm   0.08 in
<b>Tone Wire Gauge</b>	24 AWG

## Representative Image



## Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	86.36 mm   3.4 in
<b>Minimum Bend Radius, unloaded</b>	63.5 mm   2.5 in
<b>Tensile Load, long term, maximum</b>	400.34 N   90 lbf
<b>Tensile Load, short term, maximum</b>	1,334.466 N   300 lbf
<b>Compression</b>	1.018 kg/mm   57 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>	2.17 ft lb   2.942 N-m
<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>	889.102 m   2917 ft

## Optical Specifications

<b>Fiber Type</b>	G.652.D and G.657.A1   G.652.D and G.657.A1
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## 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, lashed   Buried
<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>	41.527 kg/km   27.905 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



## Included Products

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

## \* Footnotes

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