810010256/50 | 0-024-DF-HY-F24NS/30G/8W024/1X24AWG (5K)



LightScope ZWP® Fiber + Tone Wire Outdoor Drop Cable, 1–24 fiber Arid Core construction, central loose tube, 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 are 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

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North America

Portfolio CommScope®

Product Type Hybrid cable, fiber and tone-wire

Product Brand LightScope ZWP®

Government FundingBuild America Buy America (BABA) compliant

General Specifications

Cable TypeCentral loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Jacket Color Black

Subunit, quantity 1

Fibers per Subunit, quantity 24

Tone Wire, quantity 1

Total Fiber Count 24

Dimensions

 Height Over Jacket
 4.572 mm | 0.18 in

 Cable Length
 1,524 m | 5000 ft

Buffer Tube/Subunit Diameter 3.048 mm | 0.12 in

Diameter Over Jacket 9.906 mm | 0.39 in

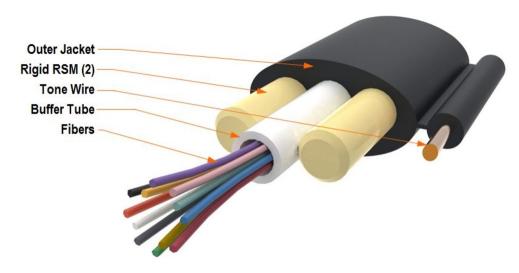
Diameter Over Messenger Jacket 2.032 mm | 0.08 in

Tone Wire Gauge 24 AWG



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Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded86.36 mm3.4 inMinimum Bend Radius, unloaded63.5 mm2.5 in

Tensile Load, long term, maximum 400.34 N | 90 lbf

Tensile Load, short term, maximum 1,334.466 N | 300 lbf

Compression 1.018 kg/mm | 57 lb/in

Compression Test Method FOTP-41 | IEC 60794-1 E3

Flex 35 cycles

Flex Test Method FOTP-104 | IEC 60794-1 E6

Impact 2.17 ft lb | 2.942 N-m

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 889.102 m | 2917 ft

Optical Specifications

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



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Environmental Specifications

Installation temperature $-30 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-22 °F to $+158 \,^{\circ}\text{F}$)

Operating Temperature $-40 \,^{\circ}\text{C}$ to $+70 \,^{\circ}\text{C}$ (-40 °F to $+158 \,^{\circ}\text{F}$)

Storage Temperature $-40 \,^{\circ}\text{C}$ to $+75 \,^{\circ}\text{C}$ (-40 °F to $+167 \,^{\circ}\text{F}$)

Cable Qualification StandardsANSI/ICEA S-110-717Environmental SpaceAerial, lashed | Buried

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

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 40.399 kg/km | 27.147 lb/kft

Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

