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 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

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 Funding	Build America Buy America (BABA) compliant*		
General Specifications			
Cable Type	Central 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	0.18 in 4.572 mm		
Cable Length	5000 ft 1,524 m		
Buffer Tube/Subunit Diameter	0.12 in 3.048 mm		
Diameter Over Jacket	0.39 in 9.906 mm		
Diameter Over Messenger Jacket	0.08 in 2.032 mm		
Tone Wire Gauge	24 AWG		

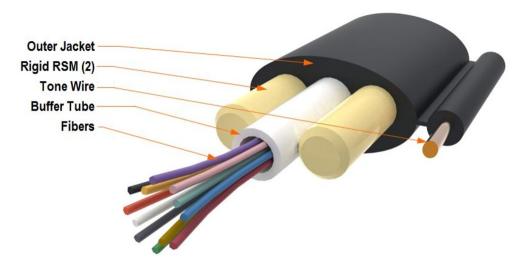
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Representative Image



Mechanical Specifications

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

27.147 lb/kft | 40.399 kg/km

Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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