

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

- *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*

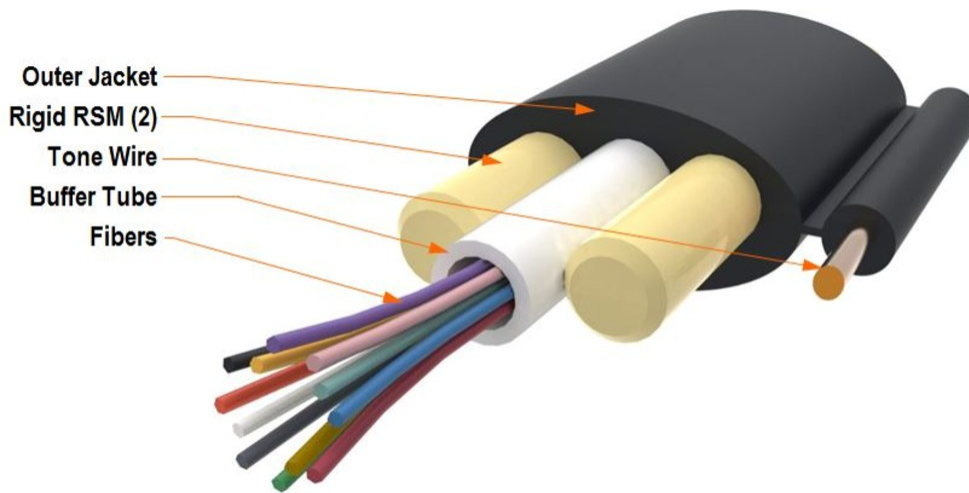
General Specifications

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	4.572 mm 0.18 in
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

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded	86.36 mm 3.4 in
Minimum Bend Radius, unloaded	63.5 mm 2.5 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

810009343/DB | O-024-DF-HY-F24NS/30G /8W024/1X24AW

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 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	40.399 kg/km 27.147 lb/kft
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Regulatory Compliance/Certifications

Agency	Classification
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 www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant



Included Products

810009343/DB | O-024-DF-HY-F24NS/30G /8W024/1X24AW

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable