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

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®

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


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 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

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

* Footnotes

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