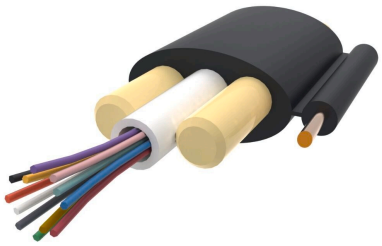
8108198/DB | 0-002-DF-HY-F02NS/8W002/1X24AWG



Fiber Hybrid drop cable, LightScope® ZWP Fiber + Tone Wire Outdoor, 2 fiber Arid Core construction, central loose tube, Gel-filled, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

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

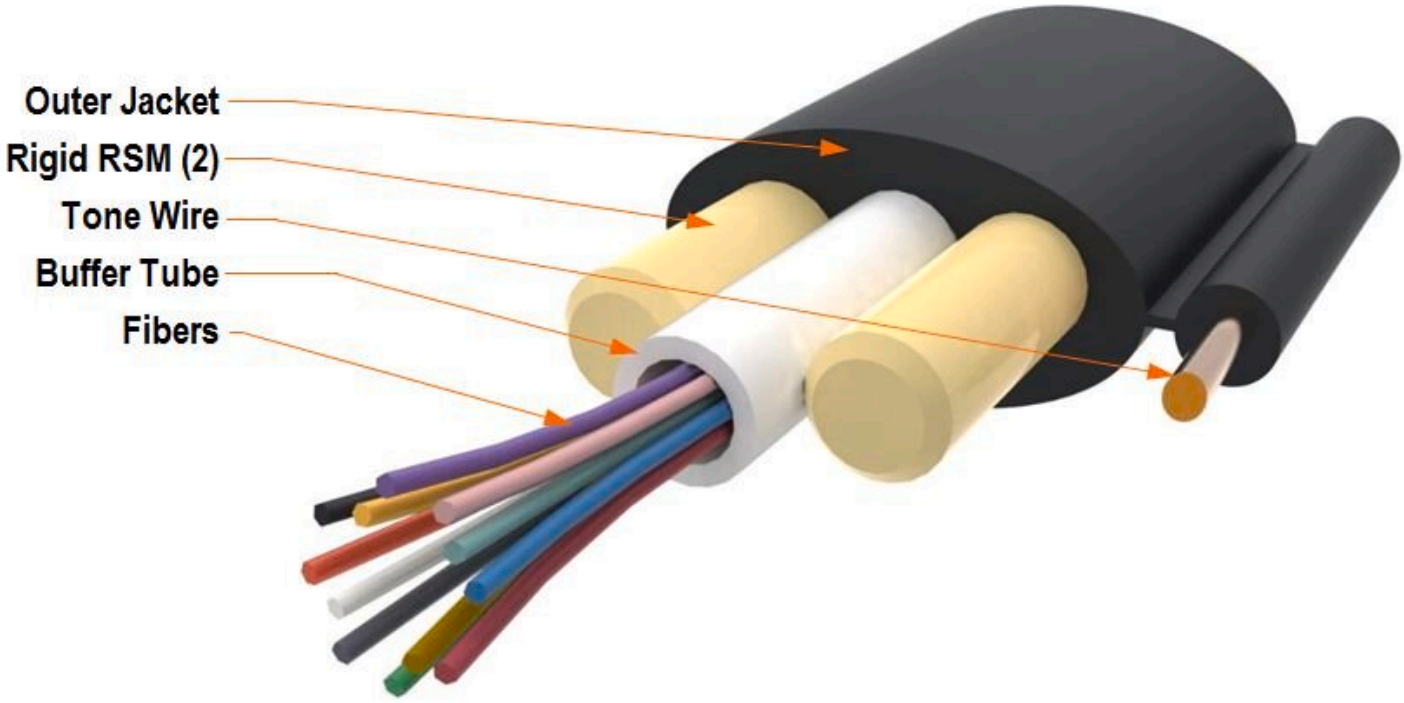
Cable Type	Central loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Subunit, quantity	1
Fibers per Subunit, quantity	2
Tone Wire, quantity	1
Total Fiber Count	2

Dimensions

Height Over Jacket	4.318 mm | 0.17 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

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Revised: July 17, 2026

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded	86.36 mm | 3.4 in
Minimum Bend Radius, unloaded	81.28 mm | 3.2 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

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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

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 | Telcordia GR-20
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

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Packaging and Weights

Cable weight	45.984 kg/km | 30.9 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
ROHS	Compliant
UK-ROHS	Compliant



Included Products

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

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