

Fiber outdoor drop cable, LightScope® ZWP Self-Supporting All-Dielectric, Singlemode G.652.D and G.657.Al, 6 fiber Arid Core construction, Gel-filled, central loose tube, Feet jacket marking, Black jacket color

 *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 Fiber drop cable

Product Series O-DF

Government Requirements Build America Buy America (BABA) compliant*

General Specifications

Cable Type Central loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Jacket Color Black

Jacket Marking Feet

Location of ManufacturingCatawba, North Carolina

Subunit, quantity 1

Fibers per Subunit, quantity 6

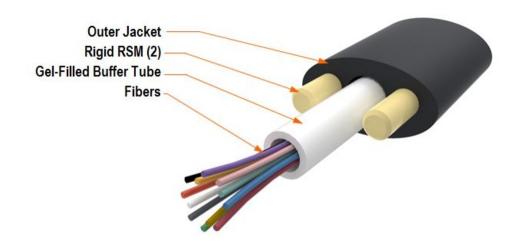
Total Fiber Count 6

Dimensions

Height Over Jacket4.5 mm0.177 inBuffer Tube/Subunit Diameter3 mm0.118 inDiameter Over Jacket7.9 mm0.311 in

COMMSCOPE®

Representative Image



Material Specifications

Jacket Material PΕ

Mechanical Specifications

Minimum Bend Radius, loaded 86 mm | 3.386 in Minimum Bend Radius, unloaded 81 mm | 3.189 in Tensile Load, long term, maximum 400 N | 89.924 lbf Tensile Load, short term, maximum 1334 N | 299.895 lbf

Compression 10 N/mm | 57.101 lb/in

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

Flex 35 cycles

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

Impact 2.94 N-m | 26.021 in lb

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 1047 m | 3,435.039 ft

COMMSC PE°

Optical Specifications

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

Environmental Specifications

Installation temperature $-30 \, ^{\circ}\text{C to } +70 \, ^{\circ}\text{C } (-22 \, ^{\circ}\text{F to } +158 \, ^{\circ}\text{F})$ Operating Temperature $-40 \, ^{\circ}\text{C to } +70 \, ^{\circ}\text{C } (-40 \, ^{\circ}\text{F to } +158 \, ^{\circ}\text{F})$ Storage Temperature $-40 \, ^{\circ}\text{C to } +75 \, ^{\circ}\text{C } (-40 \, ^{\circ}\text{F to } +167 \, ^{\circ}\text{F})$

Cable Qualification StandardsANSI/ICEA S-110-717Telcordia GR-20

Environmental Space Aerial, self-support | 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 $-30 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-22 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$

Low High Bend Test Method FOTP-37 | IEC 60794-1 E11

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

Temperature Cycle Test Method FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight 39 kg/km | 26.207 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

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UK-ROHS

Compliant



Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

