

Fiber outdoor drop cable, LightScope ZWP® Self-Supporting All-Dielectric, Singlemode G.652.D and G.657.Al, 8 fiber Arid Core construction, Gel-filled, central loose tube, no ripcords, Feet jacket marking, Black jacket color

Product Classification

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North

America

 Portfolio
 CommScope®

 Product Type
 Fiber drop cable

Product Series O-DF

General Specifications

Cable Type Central loose tube

Construction Type Non-armored

Subunit Type Gel-filled

Jacket Color Black

Jacket Marking Feet

Jacket Marking Method Inkjet

Jacket Marking Text COMMSCOPE OPTICAL CABLE OS2 SM 8F (SERIAL NUMBER) MM

/YYYY (HANDSET SYMBOL) XXXXXX FT

Subunit, quantity 1

Fibers per Subunit, quantity 8

Total Fiber Count 8

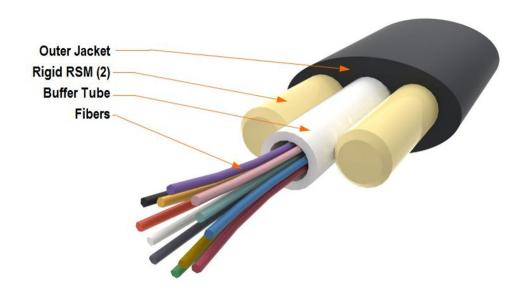
Dimensions

Height Over Jacket4.3 mm | 0.169 inBuffer Tube/Subunit Diameter2 mm | 0.079 in

Diameter Over Jacket 8 mm | 0.315 in

Representative Image

COMMSC PE®



Material Specifications

Jacket Material PE

Mechanical Specifications

Minimum Bend Radius, loaded86 mm | 3.386 inMinimum Bend Radius, unloaded81 mm | 3.189 inTensile Load, long term, maximum400 N | 89.924 lbf

Tensile Load, short term, maximum 1334 N | 299.895 lbf

Compression 10 N/mm | 57.101 lb/in

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

Flex 35 cycles

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

Impact 2.94 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

COMMSCOPE®

Optical Specifications

Fiber Type G.652.D and G.657.A1 | 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 StandardsANSI/ICEA S-110-717

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

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-8W1-LT - LightScope ZWP® Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

