

Fiber OSP cable, LightScope® ZWP Single Jacket All-Dielectric, High Fiber Count, 312 fiber, Gel-Filled, Stranded Loose Tube, Singlemode G. 652.D and G.657.A1, 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

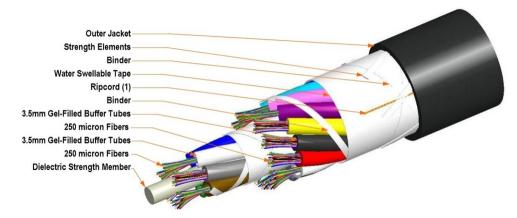
Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	O-LN
Government Requirements	Build America Buy America (BABA) compliant*
General Specifications	
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	5
Jacket Color	Black
Jacket Marking	Feet
Location of Manufacturing	Claremont, North Carolina
Subunit, quantity	13
Fibers per Subunit, quantity	24
Total Fiber Count	312
Dimensions	
Buffer Tube/Subunit Diameter	3.5 mm 0.138 in
Diameter Over Jacket	21.5 mm 0.846 in

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Page 1 of 4

Representative Image



Material Specifications

Jacket Material

ΡE

Mechanical Specifications

Minimum Bend Radius, loaded	323 mm 12.717 in
Minimum Bend Radius, unloaded	215 mm 8.465 in
Tensile Load, long term, maximum	800 N 179.847 lbf
Tensile Load, short term, maximum	2700 N 606.984 lbf
Compression	22 N/mm 125.623 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	6.62 N-m 58.592 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	317 m 1,040.026 ft

Optical Specifications

Fiber Type

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

Page 2 of 4

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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-87-640 EN 187105
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

-2 °C 28.4 °F
FOTP-98 IEC 60794-1 F15
70 °C 158 °F
FOTP-81 IEC 60794-1 E14
-40 °C to +85 °C (-40 °F to +185 °F)
IEC 60794-1 F9
-30 °C to +60 °C (-22 °F to +140 °F)
FOTP-37 IEC 60794-1 E11
-40 °C to +70 °C (-40 °F to +158 °F)
FOTP-3 IEC 60794-1 F1

Packaging and Weights

Cable weight

258 kg/km | 173.368 lb/kft

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

Included Products

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

* Footnotes

Page 3 of 4

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Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 4 of 4

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