8106750/DB | 0-432-LN-8W-F24NS



Fiber OSP cable, LightScope® ZWP Single Jacket All-Dielectric, High Fiber Count, 432 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	
Jacket Color	Black	
Jacket Marking	Feet	
Location of Manufacturing	Claremont, North Carolina	
Subunit, quantity	18	
Fibers per Subunit, quantity	24	
Total Fiber Count	432	
Dimensions		
Buffer Tube/Subunit Diameter	3.5 mm 0.138 in	
Diameter Over Jacket	21.5 mm 0.846 in	

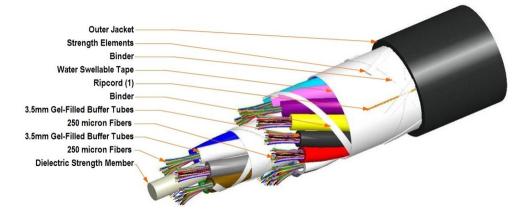
Representative Image

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Material Specifications

Jacket Material	PE
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

Environmental Specifications

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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	
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

Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015

Cable weight

Low High Bend

Temperature Cycle

Low High Bend Test Method

Temperature Cycle Test Method

Packaging and Weights

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

-30 °C to +60 °C (-22 °F to +140 °F)

-40 °C to +70 °C (-40 °F to +158 °F)

FOTP-37 | IEC 60794-1 E11

FOTP-3 | IEC 60794-1 F1

258 kg/km | 173.368 lb/kft

Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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