8108402/DB R-048-LZ-8W-F12BK/25D



Fiber indoor/outdoor cable, LightScope® ZWP, Riser Rated, Gel-Free, Stranded Loose Tube Cable with Aluminum Interlocking Armor, 48 fiber, 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 Latin America Middle East /Africa North America	
Portfolio	CommScope®	
Product Type	Fiber indoor/outdoor cable	
Product Series	R-LZ	
Government Requirements	Build America Buy America (BABA) compliant*	
General Specifications		
Armor Type	Interlocking aluminum	
Cable Type	Stranded loose tube	
Construction Type	Armored	
Subunit Type	Gel-free	
Filler, quantity	1	
Jacket Color	Black	
Jacket Marking	Feet	
Location of Manufacturing	Claremont, North Carolina	
Subunit, quantity	4	
Fibers per Subunit, quantity	12	
Total Fiber Count	48	
Dimensions		
Buffer Tube/Subunit Diameter	2.5 mm 0.098 in	
Diameter Over Jacket	20.5 mm 0.807 in	

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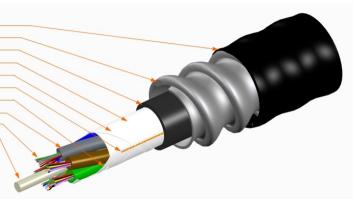
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Representative Image

Riser-Rated Outer Jacket -Interlocking Aluminum Armor -Riser-Rated Inner Jacket -Water Swellable Tape -Binder -Ripcord (1) -Binder -2.5 mm Gel-Free Buffer Tubes -250 micron Fibers -Dielectric Strength Member -



Mechanical Specifications

Minimum Bend Radius, loaded	409 mm 16.102 in
Minimum Bend Radius, unloaded	286 mm 11.26 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	1335 N 300.12 lbf
Compression	85 N/mm 485.363 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	35 N-m 309.776 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	125 m 410.105 ft
Optical Specifications	

Fiber Type

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

Environmental Specifications

Installation temperature

-10 °C to +60 °C (+14 °F to +140 °F)

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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-104-696 EN 187105 Telcordia GR-409	
Environmental Space	Riser	
Flame Test Listing	NEC OFCR (ETL) and c(ETL)	
Flame Test Method	UL 1666	
Jacket UV Resistance	UV stabilized	
Water Penetration	24 h	
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5	

Environmental Test Specifications

Cable Freeze Test Method F0TP-98 IEC 60794-1 F15 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) Fortp-37 IEC 60794-1 E11 -40 °C to +70 °C (-40 °F to +158 °F) Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)	Cable Freeze	-2 °C 28.4 °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)	Cable Freeze Test Method	FOTP-98 IEC 60794-1 F15
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)	Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Low High Bend Test Method FOTP-37 I IEC 60794-1 E11 Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)	Heat Age Test Method	IEC 60794-1 F9
Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)	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 Test MethodFOTP-3IIEC 60794-1F1	Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
	Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1

Packaging and Weights

Cable weight

326 kg/km | 219.062 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

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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