810010027/DB | C-144-LN-8W-M12BK/25D/E



Fiber indoor/outdoor cable, LightSCOPE ZWP®, Single Jacket All-Dielectric, LSZH, 144 fiber, Gel-Free, Stranded Loose Tube, Singlemode G. 652.D and G.657.A1, Meters jacket marking, Black jacket color, Eca flame rating

Product Classification

Regional Availability		Asia Australia/New Zealand EMEA Latin America North America
Portfolio		CommScope®
Product Type		Fiber indoor/outdoor cable
Product Series		C-LN
General Specifications		
Cable Type	Stranded loose tube	2
Construction Type	Non-armored	
Subunit Type	Gel-free	
Jacket Color	Black	
Jacket Marking	Meters	
Jacket Marking Method	Inkjet	
Jacket Marking Text	COMMSCOPE GB 0 /YY] [METRE MARK]	PTICAL CABLE 0S2 SM 144 FIBER EN50575 CLASS E [SERIAL NUMBER] [MM]
Subunit, quantity	12	
Fibers per Subunit, quantity	12	
Total Fiber Count	144	
Dimensions		
Buffer Tube/Subunit Diameter		2.5 mm 0.098 in
Diameter Over Jacket		17.3 mm 0.681 in

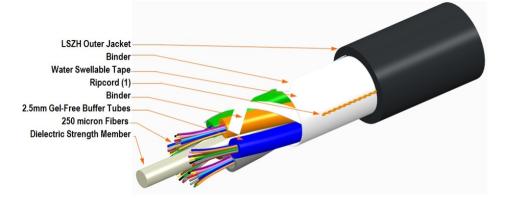
Representative Image

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Mechanical Specifications

Minimum Bend Radius, loaded	206 mm 8.11 in
Minimum Bend Radius, unloaded	173 mm 6.811 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	3 N-m 26.552 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	5 cycles
Twist Test Method	FOTP-85 IEC 60794-1 E7
Vertical Rise, maximum	5 m 16.404 ft
Optical Specifications	

Fiber Type

G.652.D and G.657.A1

Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

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Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696 EN 187105 Telcordia GR-20 Telcordia GR- 409
EN50575 CPR Cable EuroClass Fire Performance	Eca
Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH)
Flame Test Listing	EN 50399
Flame Test Method	EN 50399 IEC 60332-1-2 IEC 60754-2
Jacket UV Resistance	UV stabilized
Water Penentration	24 h
Water Penentration Test Method	FOTP-82 IEC 60794-1 F5
Environmental Test Specifications	
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
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	272 kg/km 182.776 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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