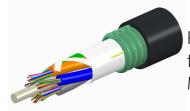
8108435/DB | D-108-LA-8W-M12NS



Fiber OSP cable, LightScope® ZWP Single Jacket/Single Armor, 108 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Meters jacket marking, Black jacket color

• Corrugated steel tape armor is strong yet flexible, providing additional crush and rodent protection

Product Classification

PortfolioCommScope@Product TypeFiber OSP cableProduct SeriesD-LAGeneral SpecificationsCorrugated steelArmor TypeCorrugated steelCable TypeStranded loose tubeConstruction TypeGel-freeSubunit TypeGel-freeFiller, quantity1Jacket ColorBlackSubunit, quantity9Fibers per Subunit, quantity12Fibers per Subunit, quantity108Buffer Tube/Subunit Diameter2.5 mm 0.098 inDiameter Over Jacket15 mm 0.591 in	Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Product SeriesD-LAGeneral SpecificationsCorrugated steelArmor TypeCorrugated steelCable TypeStranded loose tubeConstruction TypeArmoredSubunit TypeGel-freeFiller, quantity1Jacket ColorBlackJacket Marking9Subunit, quantity12Fibers per Subunit, quantity108DimensionsStrong 10.098 in	Portfolio	CommScope®
General SpecificationsArmor TypeCorrugated steelCable TypeStranded loose tubeConstruction TypeArmoredSubunit TypeGel-freeFiller, quantity1Jacket ColorBlackJacket MarkingMetersSubunit, quantity1Fibers per Subunit, quantity12Total Fiber Count108DimensionsStrand 1 0.098 in	Product Type	Fiber OSP cable
Armor TypeCorrugated steelCable TypeStranded loose tubeConstruction TypeArmoredSubunit TypeGel-freeFiller, quantity1Jacket ColorBlackJacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	Product Series	D-LA
Cable TypeStranded loose tubeConstruction TypeArmoredSubunit TypeGel-freeFiller, quantity1Jacket ColorBlackJacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	General Specifications	
Construction TypeArmoredSubunit TypeGel-freeFiller, quantity1Jacket ColorBlackJacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	Armor Type	Corrugated steel
Subunit TypeGel-freeFiller, quantity1Jacket ColorBlackJacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	Cable Type	Stranded loose tube
Filler, quantity1Jacket ColorBlackJacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	Construction Type	Armored
Jacket ColorBlackJacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions5.000000000000000000000000000000000000	Subunit Type	Gel-free
Jacket MarkingMetersSubunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions	Filler, quantity	1
Subunit, quantity9Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	Jacket Color	Black
Fibers per Subunit, quantity12Total Fiber Count108Dimensions2.5 mm 0.098 in	Jacket Marking	Meters
Total Fiber Count 108 Dimensions 2.5 mm 0.098 in	Subunit, quantity	9
Dimensions Buffer Tube/Subunit Diameter 2.5 mm 0.098 in	Fibers per Subunit, quantity	12
Buffer Tube/Subunit Diameter2.5 mm 0.098 in	Total Fiber Count	108
	Dimensions	
Diameter Over Jacket 15 mm 0.591 in	Buffer Tube/Subunit Diameter	2.5 mm 0.098 in
	Diameter Over Jacket	15 mm 0.591 in

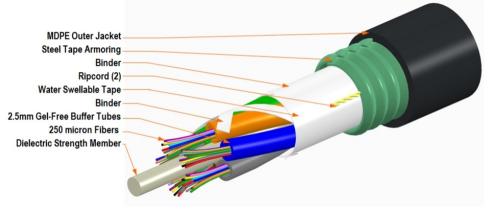
Representative Image

Page 1 of 3

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: September 23, 2024



8108435/DB | D-108-LA-8W-M12NS



Material Specifications

Jacket Material	PE
Mechanical Specifications	
Minimum Bend Radius, loaded	225 mm 8.858 in
Minimum Bend Radius, unloaded	150 mm 5.906 in
Tensile Load, long term, maximum	800 N 179.847 lbf
Tensile Load, short term, maximum	2700 N 606.984 lbf
Compression	44 N/mm 251.246 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	4.41 N-m 39.032 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	438 m 1,437.008 ft
Optical Specifications	

Fiber Type

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

Page 2 of 3

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: September 23, 2024



8108435/DB | D-108-LA-8W-M12NS

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 Telcordia GR-20
Environmental Space	Aerial, lashed Buried
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Qualification Method	ANSI/ICEA S-87-640
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
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)
Low High Bend Test Method	FOTP-37 IEC 60794-1 E11
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

187 kg/km | 125.658 lb/kft

Regulatory Compliance/Certifications

Classification

Agency

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

Page 3 of 3

©2024 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: September 23, 2024

COMMSCOPE°