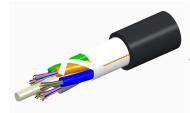
# 8108702/DB | D-228-LN-8W-F12NS



Fiber OSP cable, LightScope® ZWP Single Jacket All-Dielectric, 228 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color

## Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America	
Portfolio	CommScope®	
Product Type	Fiber OSP cable	
Product Series	D-LN	
General Specifications		
Cable Type	Stranded loose tube	
Construction Type	Non-armored	
Subunit Type	Gel-free	
Filler, quantity	5	
Jacket Color	Black	
Jacket Marking	Feet	
Subunit, quantity	19	
Fibers per Subunit, quantity	12	
Total Fiber Count	228	
Dimensions		
Buffer Tube/Subunit Diameter	2.5 mm   0.098 in	
Diameter Over Jacket	18.2 mm   0.717 in	

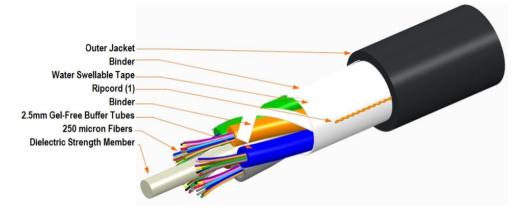
## Representative Image

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# Material Specifications

Jacket Material	PE
Mechanical Specifications	
Minimum Bend Radius, loaded	273 mm   10.748 in
Minimum Bend Radius, unloaded	182 mm   7.165 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	5.88 N-m   52.042 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	464 m   1,522.31 ft
Optical Specifications	

Fiber Type

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

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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   Telcordia GR-20	
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
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

Agency

176 kg/km | 118.267 lb/kft

#### Regulatory Compliance/Certifications

#### 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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