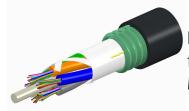
# 8108313/DB | D-180-LA-8W-M12NS



Fiber OSP cable, LightScope® ZWP Single Jacket/Single Armor, 180 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Meter jacket marking, Black jacket color

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

#### Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	D-LA
General Specifications	
Armor Type	Corrugated steel
Cable Type	Stranded loose tube
Construction Type	Armored
Subunit Type	Gel-free
Filler, quantity	3
Jacket Color	Black
Jacket Marking	Meters
Subunit, quantity	15
Fibers per Subunit, quantity	12
Total Fiber Count	180
Dimensions	
Buffer Tube/Subunit Diameter	2.5 mm   0.098 in
Diameter Over Jacket	17.2 mm   0.677 in

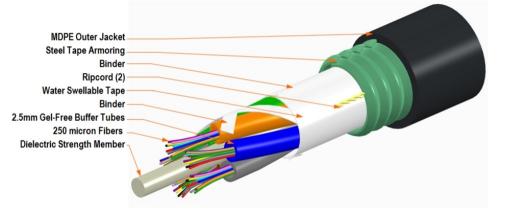
### Representative Image

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## 8108313/DB | D-180-LA-8W-M12NS



### Material Specifications

Jacket Material	PE	
Mechanical Specifications		
Minimum Bend Radius, loaded	258 mm   10.157 in	
Minimum Bend Radius, unloaded	172 mm   6.772 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	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	388 m   1,272.966 ft	
Ontical Specifications		

#### **Optical Specifications**

Fiber Type

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

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## 8108313/DB | D-180-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

211 kg/km | 141.785 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

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