

Fiber OSP cable, LightScope® ZWP Single Jacket/Single Armor, 144 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color with Yellow tracer, Build America Buy America (BABA)

- Corrugated steel tape armor is strong yet flexible, providing additional crush and rodent protection
- \*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

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber OSP cable
<b>Product Series</b>	D-LA
<b>Government Requirements</b>	Build America Buy America (BABA) compliant*

## General Specifications

<b>Armor Type</b>	Corrugated steel
<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Armored
<b>Subunit Type</b>	Gel-free
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<b>Location of Manufacturing</b>	Claremont, North Carolina
<b>Subunit, quantity</b>	12
<b>Fibers per Subunit, quantity</b>	12
<b>Total Fiber Count</b>	144

## Dimensions

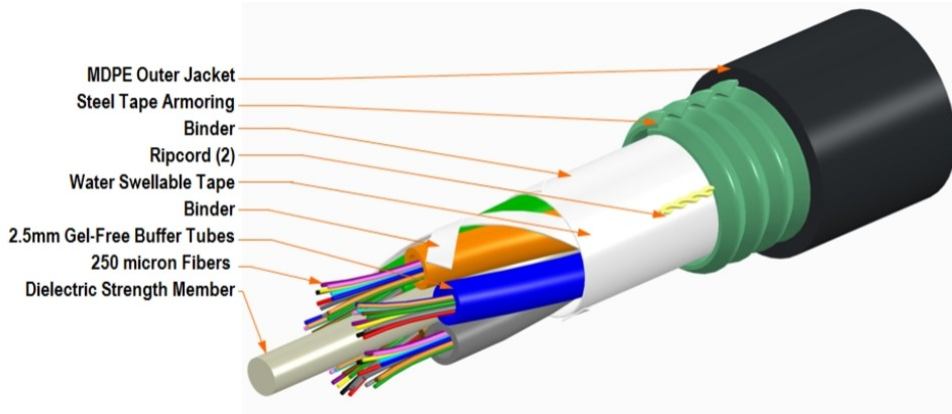
<b>Buffer Tube/Subunit Diameter</b>	2.5 mm   0.098 in
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# 8108111/DB | D-144-LA-8W-F12YL

**Diameter Over Jacket**

17.1 mm | 0.673 in

## Representative Image



## Material Specifications

**Jacket Material**

PE

## Mechanical Specifications

**Minimum Bend Radius, loaded**

257 mm | 10.118 in

**Minimum Bend Radius, unloaded**

171 mm | 6.732 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**

349 m | 1,145.013 ft

## Optical Specifications

# 8108111/DB | D-144-LA-8W-F12YL

**Fiber Type** G.652.D and G.657.A1 | G.652.D and G.657.A1

## Environmental Specifications

<b>Installation temperature</b>	-30 °C to +70 °C (-22 °F to +158 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-87-640   EN 187105   Telcordia GR-20
<b>Environmental Space</b>	Aerial, lashed   Buried
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Qualification Method</b>	ANSI/ICEA S-87-640
<b>Water Penetration Test Method</b>	FOTP-82   IEC 60794-1 F5

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C   28.4 °F
<b>Cable Freeze Test Method</b>	FOTP-98   IEC 60794-1 F15
<b>Heat Age</b>	-40 °C to +85 °C (-40 °F to +185 °F)
<b>Heat Age Test Method</b>	IEC 60794-1 F9
<b>Low High Bend</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Low High Bend Test Method</b>	FOTP-37   IEC 60794-1 E11
<b>Temperature Cycle</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	FOTP-3   IEC 60794-1 F1

## Packaging and Weights

**Cable weight** 234 kg/km | 157.241 lb/kft

## Included Products

DB-8W-LT – LightScope® ZWP Singlemode Fiber

## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable