# 760185256 | D-144-LN-8W-F06NS/HD



Fiber OSP cable, TeraSPEED® Single Jacket All-Dielectric, 144 fiber, Gel-Free, Outdoor Stranded Loose Tube w/HDPE Outer Jacket, Singlemode G.652.D and G.657.Al, Feet jacket marking, Black jacket color

#### **Product Classification**

Regional Availability

Asia | Australia/New Zealand | EMEA | Latin America | North

America

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 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 0

Jacket Color Black

**Jacket Marking** Feet

Subunit, quantity

Fibers per Subunit, quantity 6

Total Fiber Count 144

Dimensions

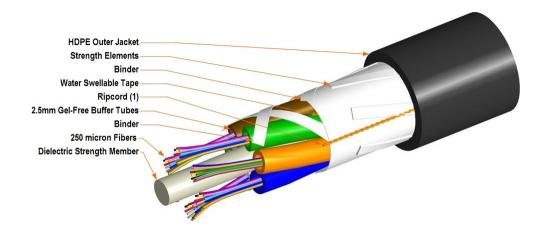
**Buffer Tube/Subunit Diameter** 2.5 mm | 0.098 in

**Diameter Over Jacket** 18.2 mm | 0.717 in

Representative Image



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### Material Specifications

Jacket Material High density polyethylene (HDPE)

## Mechanical Specifications

Minimum Bend Radius, loaded273 mm10.748 inMinimum Bend Radius, unloaded182 mm7.165 inTensile Load, long term, maximum800 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

FIEX 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** 462 m | 1,515.748 ft

Optical Specifications

Fiber Type G.652.D and G.657.A1, TeraSPEED® | OS2



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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

**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**  $-30 \,^{\circ}\text{C} \text{ to } +60 \,^{\circ}\text{C} \, (-22 \,^{\circ}\text{F to } +140 \,^{\circ}\text{F})$ 

**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** 177 kg/km | 118.939 lb/kft

## Regulatory Compliance/Certifications

Agency Classification

ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system

#### Included Products

CS-8W-LT - TeraSPEED® G652D/G657A1 Singlemode

Fiber

#### \* Footnotes

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

