

# 810009771/DB | C-144-LN-8W-M12BK/20G/HTS /D



Fiber indoor/outdoor cable, LightScope ZWP® High Tensile Strength, LSZH, Singlemode G.652.D and G.657.A1, 144 fiber, Mini All-Dielectric Single Jacket, Gel-Filled, Stranded Loose Tube, Black jacket color, Dca flame rating, Provides Rodent Resistance

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   EMEA
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber indoor/outdoor cable
<b>Product Series</b>	C-LN

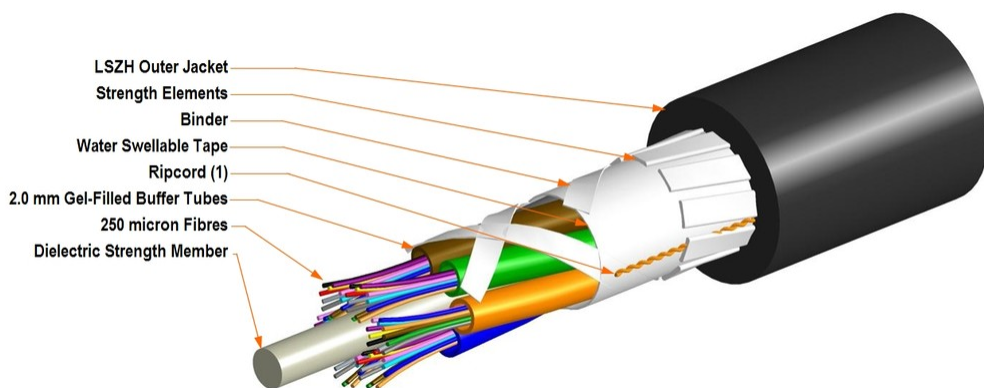
## General Specifications

<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-filled
<b>Filler, quantity</b>	0
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Meters
<b>Jacket Marking Method</b>	Inkjet
<b>Jacket Marking Text</b>	COMMScope GB OPTICAL CABLE 810009771 /DB 144X OS2 SM LSZH EN50575 CLASS D [SERIAL NUMBER] [METER MARK]
<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 mm   0.079 in
<b>Diameter Over Jacket</b>	16.1 mm   0.634 in

## Representative Image



## Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	241 mm   9.488 in
<b>Minimum Bend Radius, unloaded</b>	161 mm   6.339 in
<b>Tensile Load, long term, maximum</b>	1350 N   303.492 lbf
<b>Tensile Load, short term, maximum</b>	4500 N   1,011.641 lbf
<b>Compression</b>	22 N/mm   125.623 lb/in
<b>Compression Test Method</b>	IEC 60794-1 E3
<b>Flex</b>	25 cycles
<b>Flex Test Method</b>	IEC 60794-1 E6
<b>Impact</b>	10 N-m   88.507 in lb
<b>Impact Test Method</b>	IEC 60794-1 E4
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	IEC 60794-1 E1
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	IEC 60794-1 E7

## Optical Specifications

<b>Fiber Type</b>	OM4, LazrSPEED® 550   OS2
-------------------	---------------------------

## Environmental Specifications

<b>Installation temperature</b>	-10 °C to +50 °C (+14 °F to +122 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Storage Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)

# 810009771/DB | C-144-LN-8W-M12BK/20G/HTS /D

<b>Cable Qualification Standards</b>	EN 187105   IEC 60794-1-2
<b>EN50575 CPR Cable EuroClass Fire Performance</b>	Dca
<b>EN50575 CPR Cable EuroClass Smoke Rating</b>	s2
<b>EN50575 CPR Cable EuroClass Droplets Rating</b>	d0
<b>EN50575 CPR Cable EuroClass Acidity Rating</b>	a1
<b>Environmental Space</b>	Buried   Low Smoke Zero Halogen (LSZH)
<b>Flame Test Method</b>	IEC 60332-1-2   IEC 60754-2   IEC 61034-2
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<b>Water Penetration Test Method</b>	IEC 60794-1 F5

## Environmental Test Specifications

<b>Cable Freeze</b>	-2 °C
<b>Cable Freeze Test Method</b>	IEC 60794-1 F15
<b>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	IEC 60794-1 E14
<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>	-15 °C to +23 °C (+5 °F to +73 °F)
<b>Low High Bend Test Method</b>	IEC 60794-1 E11
<b>Temperature Cycle</b>	-40 °C to +70 °C (-40 °F to +158 °F)
<b>Temperature Cycle Test Method</b>	IEC 60794-1 F1

## Packaging and Weights

<b>Cable weight</b>	264 kg/km   177.4 lb/kft
---------------------	--------------------------

## Included Products

CS-8W-250-EMEA – LightScope ZWP® Singlemode Fiber  
250um

## \* Footnotes

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