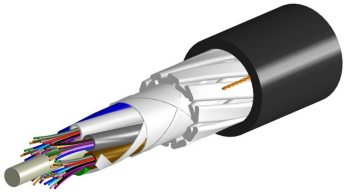


# 760100768 | Z-144-LN-8W-F12BK/20G/HTS/D



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

- Additional layer of e-glass for enhanced rodent resistance

## Product Classification

<b>Regional Availability</b>	Asia   Australia/New Zealand   Latin America   North America
<b>Portfolio</b>	CommScope®
<b>Product Type</b>	Fiber indoor/outdoor cable
<b>Product Series</b>	Z-LN

## General Specifications

<b>Cable Type</b>	Stranded loose tube
<b>Construction Type</b>	Non-armored
<b>Subunit Type</b>	Gel-filled
<b>Jacket Color</b>	Black
<b>Jacket Marking</b>	Feet
<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>	15.7 mm   0.618 in

## Representative Image



## Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	243 mm   9.567 in
<b>Minimum Bend Radius, unloaded</b>	162 mm   6.378 in
<b>Tensile Load, long term, maximum</b>	1334 N   299.895 lbf
<b>Tensile Load, short term, maximum</b>	4448 N   999.95 lbf
<b>Compression</b>	22 N/mm   125.623 lb/in
<b>Compression Test Method</b>	FOTP-41   IEC 60794-1 E3
<b>Flex</b>	25 cycles
<b>Flex Test Method</b>	FOTP-104   IEC 60794-1 E6
<b>Impact</b>	5.15 N-m   45.581 in lb
<b>Impact Test Method</b>	FOTP-25   IEC 60794-1 E4
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	FOTP-33   IEC 60794-1 E1
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	FOTP-85   IEC 60794-1 E7
<b>Vertical Rise, maximum</b>	514 m   1,686.352 ft

## Optical Specifications

<b>Fiber Type</b>	G.652.D and G.657.A1, TeraSPEED®   OS2   OS2
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## Environmental Specifications

<b>Installation temperature</b>	-30 °C to +60 °C (-22 °F to +140 °F)
<b>Operating Temperature</b>	-40 °C to +70 °C (-40 °F to +158 °F)

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<b>Storage Temperature</b>	-40 °C to +75 °C (-40 °F to +167 °F)
<b>Cable Qualification Standards</b>	ANSI/ICEA S-104-696   EN 187105   Telcordia GR-20
<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>	d1
<b>EN50575 CPR Cable EuroClass Acidity Rating</b>	a1
<b>Environmental Space</b>	Aerial, lashed   Buried   Low Smoke Zero Halogen (LSZH)   Riser
<b>Flame Test Listing</b>	NEC OFNR-ST1 (ETL) and c(ETL)
<b>Flame Test Method</b>	IEC 60332-3   IEC 60754-2   IEC 61034-2   UL 1666   UL 1685
<b>Jacket UV Resistance</b>	UV stabilized
<b>Water Penetration</b>	24 h
<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>Drip</b>	70 °C   158 °F
<b>Drip Test Method</b>	FOTP-81   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>	-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

<b>Cable weight</b>	259 kg/km   174.04 lb/kft
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## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
REACH-SVHC	Compliant as per SVHC revision on <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>

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ROHS Compliant

UK-ROHS Compliant



## Included Products

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

## \* Footnotes

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