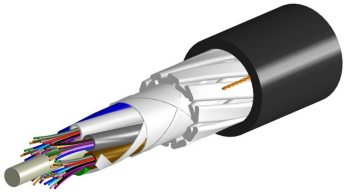# 760100768 | Z-144-LN-8W-F12BK/20G/HTS/D

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

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

General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	12
Fibers per Subunit, quantity	12
Total Fiber Count	144

Dimensions

Buffer Tube/Subunit Diameter	2 mm	0.079 in
Diameter Over Jacket	15.7 mm	0.618 in

Representative Image

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LSZH Outer Jacket
Ripcord (1)
Fiberglass Strength Elements
Binder
Water Swellable Tape
2.0 mm Gel-Filled Buffer Tubes
250 micron Fibres
Dielectric Strength Member

Mechanical Specifications

Minimum Bend Radius, loaded	243 mm	9.567 in
Minimum Bend Radius, unloaded	162 mm	6.378 in
Tensile Load, long term, maximum	1334 N	299.895 lbf
Tensile Load, short term, maximum	4448 N	999.95 lbf
Compression	22 N/mm	125.623 lb/in
Compression Test Method	FOTP-41	IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104	IEC 60794-1 E6
Impact	5.15 N-m	45.581 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	514 m	1,686.352 ft

Optical Specifications

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

Environmental Specifications

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

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Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696	EN 187105	Telcordia GR-20
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s2
EN50575 CPR Cable EuroClass Droplets Rating	d1
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Aerial, lashed	Buried	Low Smoke Zero Halogen (LSZH)	Riser
Flame Test Listing	NEC OFNR-ST1 (ETL) and c(ETL)
Flame Test Method	IEC 60332-3	IEC 60754-2	IEC 61034-2	UL 1666	UL 1685
Jacket UV Resistance	UV stabilized
Water Penentration	24 h
Water Penentration 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
Drip	70 °C	158 °F
Drip Test Method	FOTP-81	IEC 60794-1 E14
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	259 kg/km	174.04 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
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 www.commscope.com/ProductCompliance

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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

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