760154971 | Z-024-LA-8W-F12BK/25D/C

TeraSPEED® Indoor/Outdoor, Single Jacket/Single Armor, Low Smoke Zero Halogen (LSZH), Gel-Free, Stranded Loose Tube Cable

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

Product Classification

Regional Availability	Asia	Australia/New Zealand	EMEA	Latin America	North America
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable

General Specifications

Armor Type	Corrugated steel
Cable Type	Stranded loose tube
Construction Type	Armored
Fiber Type, quantity	24
Fibers per Subunit, quantity	12
Filler, quantity	3
Jacket Color	Black
Subunit Type	Gel-free
Subunit, quantity	2
Total Fiber Count	24

Dimensions

Buffer Tube/Subunit Diameter	2.5 mm	0.098 in
Diameter Over Jacket	13 mm	0.512 in

Representative Image

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LSZH Outer Jacket
Steel Tape Armoring
Binder
Ripcord (2)
Water Swellable Tape
Binder
2.5mm Gel-Free Buffer Tubes
250 micron Fibers
Dielectric Strength Member
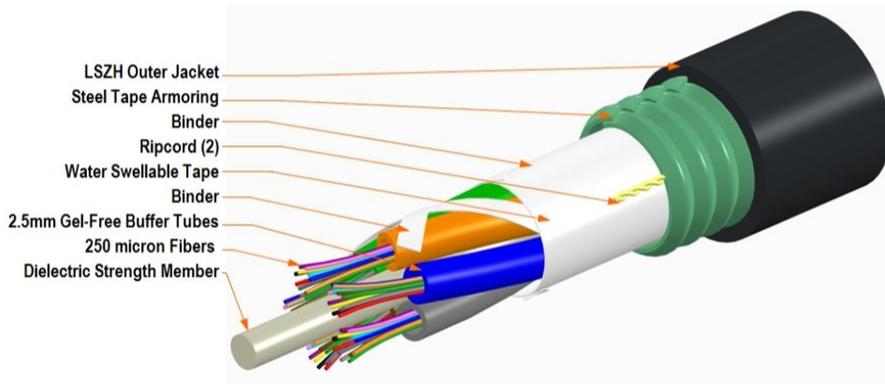
Mechanical Specifications

Minimum Bend Radius, loaded	195 mm　|　7.677 in
Minimum Bend Radius, unloaded	130 mm　|　5.118 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	35 cycles
Flex Test Method	FOTP-104　|　IEC 60794-1 E6
Impact	3 N-m　|　26.552 in lb
Impact Test Method	FOTP-25　|　IEC 60794-1 E4
Strain	See long and short term tensile loads

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Strain Test Method	FOTP-33	IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	FOTP-85	IEC 60794-1 E7
Vertical Rise, maximum	461 m	1,512.467 ft

Optical Specifications

Fiber Type	G.652.D and G.657.A1 , TeraSPEED®	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)
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	Telcordia GR-409
EN50575 CPR Cable EuroClass Fire Performance	Cca
EN50575 CPR Cable EuroClass Smoke Rating	s1b
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Aerial, lashed	Buried	Low Smoke Zero Halogen (LSZH)
Flame Test Listing	NEC OFC-LS (ETL) and c(ETL)
Flame Test Method	IEC 60332-3	IEC 60754-2	IEC 61034-2	IEEE 1202	IEEE 383	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
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

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| **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
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system

Included Products

CS-8W-IOLT   —   TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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