



Fiber indoor/outdoor cable, TeraSPEED® Single Jacket All-Dielectric, 6 fiber, LSZH, Gel-Free, Stranded Loose Tube Cable, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color, B2ca flame rating

Product Classification

Regional Availability

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

Portfolio

CommScope®

Product Type

Fiber indoor/outdoor cable

Product Series

C-LN

General Specifications

Cable Type

Stranded loose tube

Construction Type

Non-armored

Subunit Type

Gel-free

Filler, quantity

4

Jacket Color

Black

Jacket Marking

Meters

Subunit, quantity

1

Fibers per Subunit, quantity

6

Total Fiber Count

6

Dimensions

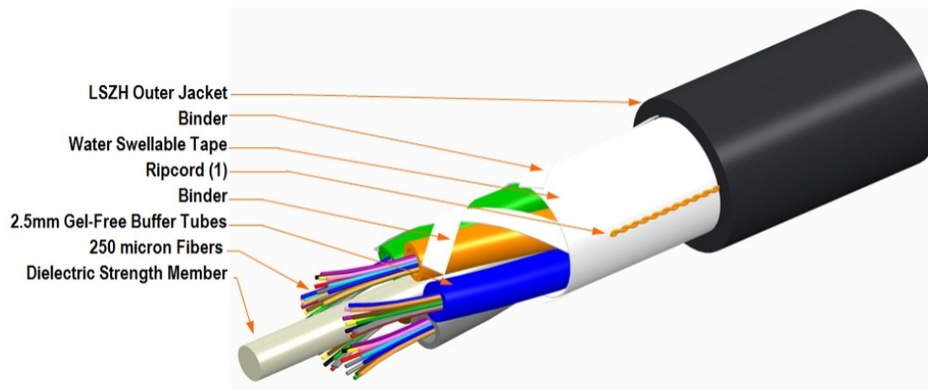
Buffer Tube/Subunit Diameter

2.5 mm | 0.098 in

Diameter Over Jacket

11.7 mm | 0.461 in

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded	175 mm 6.89 in
Minimum Bend Radius, unloaded	117 mm 4.606 in
Tensile Load, long term, maximum	800 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
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
Strain Test Method	FOTP-33 IEC 60794-1 E1
Twist	10 cycles
Twist Test Method	FOTP-85 IEC 60794-1 E7
Vertical Rise, maximum	654 m 2,145.669 ft

Optical Specifications

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

Installation temperature	-30 °C to +55 °C (-22 °F to +131 °F)
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)

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Storage Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696 EN 187105 Telcordia GR-20 Telcordia GR-409
EN50575 CPR Cable EuroClass Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH)
Flame Test Listing	EN 50399
Flame Test Method	EN 50399 IEC 60332-1 IEC 60754-2 IEC 61034-2
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 °C to +55 °C (-22 °F to +131 °F)
Low High Bend Test Method	FOTP-37 IEC 60794-1 E11
Temperature Cycle	-40 °C to +60 °C (-40 °F to +140 °F)
Temperature Cycle Test Method	FOTP-3 IEC 60794-1 F1

Packaging and Weights

Cable weight	125 kg/km 83.996 lb/kft
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Regulatory Compliance/Certifications

Agency	Classification
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available



Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable