

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

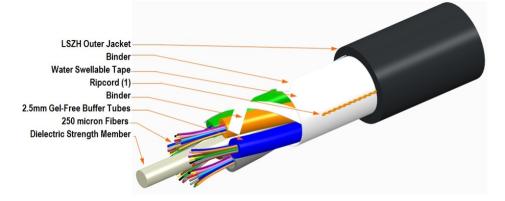
Product Classification

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

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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

Environmental Specifications

Installation temperature

Operating Temperature

-30 °C to +55 °C (-22 °F to +131 °F) -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	al
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

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

CENELEC

Included Products

CS-8W-IOLT

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- TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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