

Fiber indoor/outdoor cable, TeraSPEED®, Single Jacket/Single Armor, Low Smoke Zero Halogen (LSZH), Singlemode G.652.D and G.657.A1, 24 fiber, Gel-Free, Stranded Loose Tube, Meters jacket marking, Black jacket color, Cca flame rating

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

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Europe	
Portfolio	CommScope®	
Product Type	Fiber indoor/outdoor cable	
Product Series	Z-LA	
General Specifications		
Armor Type	Corrugated steel	
Cable Type	Stranded loose tube	
Construction Type	Armored	
Subunit Type	Gel-free	
Filler, quantity	3	
Jacket Color	Black	
Jacket Marking	Meters	
Subunit, quantity	2	
Fibers per Subunit, quantity	12	
Total Fiber Count	24	
Dimensions		
Buffer Tube/Subunit Diameter	2.5 mm 0.098 in	
Diameter Over Jacket	13 mm 0.512 in	

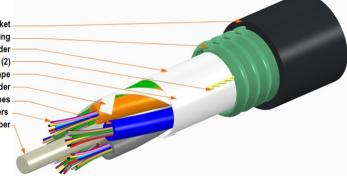
Representative Image

Page 1 of 4

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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, 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 22 N/mm 125.623 lb/in Compression Test Method F0TP-41 IEC 60794-1 E3 Flex 25 cycles Flex Test Method F0TP-104 IEC 60794-1 E6 Impact 3 N-m 26.552 in lb Impact Test Method F0TP-25 IEC 60794-1 E4 Strain Test Method F0TP-33 IEC 60794-1 E4 Twist 10 cycles Twist Test Method F0TP-85 IEC 60794-1 E4 Vertical Rise, maximum 41 m 1,512.467 ft OpticalSpecifications F0TP-85 IEC 60794-1 E7	Minimum Bend Radius, loaded	195 mm 7.677 in
Tensile Load, short term, maximum2700 N 606.984 lbfCompression22 N/mm 125.623 lb/inCompression Test MethodFOTP-41 IEC 60794-1 E3Flex25 cyclesFlex Test MethodFOTP-104 IEC 60794-1 E6Impact3 N-m 26.552 in lbImpact Test MethodFOTP-25 IEC 60794-1 E4Strain Test MethodFOTP-33 IEC 60794-1 E1Twist10 cyclesTwist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ft	Minimum Bend Radius, unloaded	130 mm 5.118 in
Compression22 N/mm 125.623 lb/inCompression Test MethodFOTP-41 IEC 60794-1 E3Flex25 cyclesFlex Test MethodFOTP-104 IEC 60794-1 E6Impact3 N-m 26.552 in lbImpact Test MethodFOTP-25 IEC 60794-1 E4Strain Test MethodFOTP-33 IEC 60794-1 E1Twist10 cyclesTwist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ft	Tensile Load, long term, maximum	800 N 179.847 lbf
Compression Test Method F0TP-41 IEC 60794-1 E3 Flex 25 cycles Flex Test Method F0TP-104 IEC 60794-1 E6 Impact 3 N-m 26.552 in lb Impact Test Method F0TP-25 IEC 60794-1 E4 Strain Test Method F0TP-33 IEC 60794-1 E1 Twist 10 cycles Twist Test Method F0TP-85 IEC 60794-1 E7 Vertical Rise, maximum H0 cycles Optical Specifications F0TP-85 IEC 60794-1 E7	Tensile Load, short term, maximum	2700 N 606.984 lbf
Flex25 cyclesFlex Test MethodFOTP-104 IEC 60794-1 E6Impact3 N-m 26.552 in lbImpact Test MethodFOTP-25 IEC 60794-1 E4Strain Test MethodFOTP-33 IEC 60794-1 E1Twist10 cyclesTwist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ftOptical Specifications	Compression	22 N/mm 125.623 lb/in
Flex Test MethodFOTP-104 IEC 60794-1 E6Impact3 N-m 26.552 in lbImpact Test MethodFOTP-25 IEC 60794-1 E4Strain Test MethodFOTP-33 IEC 60794-1 E1Twist10 cyclesTwist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ftOptical Specifications	Compression Test Method	FOTP-41 IEC 60794-1 E3
Impact 3 N-m 26.552 in lb Impact Test Method FOTP-25 IEC 60794-1 E4 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 Foto Part Part Part Part Part Part Part Part	Flex	25 cycles
Impact Test MethodFOTP-25 IEC 60794-1 E4Strain Test MethodFOTP-33 IEC 60794-1 E1Twist10 cyclesTwist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ftOptical Specifications	Flex Test Method	FOTP-104 IEC 60794-1 E6
Strain Test Method F0TP-33 IEC 60794-1 E1 Twist 10 cycles Twist Test Method F0TP-85 IEC 60794-1 E7 Vertical Rise, maximum 461 m 1,512.467 ft Optical Specifications Foto Part Part Part Part Part Part Part Part	Impact	3 N-m 26.552 in lb
Twist10 cyclesTwist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ftOptical Specifications	Impact Test Method	FOTP-25 IEC 60794-1 E4
Twist Test MethodFOTP-85 IEC 60794-1 E7Vertical Rise, maximum461 m 1,512.467 ftOptical Specifications	Strain Test Method	FOTP-33 IEC 60794-1 E1
Vertical Rise, maximum461 m 1,512.467 ftOptical Specifications	Twist	10 cycles
Optical Specifications	Twist Test Method	FOTP-85 IEC 60794-1 E7
	Vertical Rise, maximum	461 m 1,512.467 ft
Fiber TypeG.652.D and G.657.A1, TeraSPEED®OS2OS2	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)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)

Page 2 of 4

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Cable Qualification Standards	ANSI/ICEA S-104-696 EN 187105 Telcordia GR-20 Telcordia GR- 409
EN50575 CPR Cable EuroClass Fire Performance	Сса
EN50575 CPR Cable EuroClass Smoke Rating	s1b
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	al
Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH)
Flame Test Listing	EN 50399 NEC OFC-ST1 (ETL) and c(ETL)
Flame Test Method	EN 50399 IEC 60332-3 IEC 60754-2 IEC 61034-2 IEEE 1202 UL 1685
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5
Environmental Test Specifications	

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
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	
CENELEC	

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

CENELEC

Included Products

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

Page 3 of 4

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* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 4 of 4

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