

Fiber Indoor/Outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, Riser Rated, 96 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652. D and G.657.A1, Feet jacket marking, Black jacket color

Product Classification

PortfolioCommScope@Product TypeFiber indoor/outdoor cableProduct SeriesR-LNCaneral SpecificationsStranded loose tubeCable TypeStranded loose tubeConstruction TypeNon-armoredSubunit TypeGel-freeJacket ColorBlackJacket MarkingFeetSubunit, quantity12Fibers per Subunit, quantity12Fiber Count96Dimensions2.5 mm 0.098 inJacket Over Jacket13.5 mm 0.531 in	Regional Availability	Asia Australia/New Zealand Latin America Middle East /Africa North America
Product SeriesR-LNGeneral SpecificationsStranded losse tubeCable TypeStranded losse tubeConstruction TypeNon-armoredSubunit TypeGel-freeJacket ColorBlackJacket MarkingFeetSubunit, quantity8Fibers per Subunit, quantity96DimensionsJacket MarkingBuffer Tube/Subunit Diameter2.5 mm [0.098 in]	Portfolio	CommScope®
General SpecificationsCable TypeStranded loose tubeConstruction TypeNon-armoredSubunit TypeGel-freeJacket ColorBlackJacket ColorFeetSubunit, quantity8Fibers per Subunit, quantity12Total Fiber Count96Dimensions5.5 mm 0.098 in	Product Type	Fiber indoor/outdoor cable
Cable TypeStranded loose tubeConstruction TypeNon-armoredSubunit TypeGel-freeJacket ColorBlackJacket MarkingFeetSubunit, quantity8Fibers per Subunit, quantity12Total Fiber Court96DimensionsStom 1 0.098 in	Product Series	R-LN
Construction TypeNon-armoredSubunit TypeGel-freeJacket ColorBlackJacket MarkingFeetSubunit, quantity8Fibers per Subunit, quantity12Total Fiber Count96Dimensions2.5 mm 0.098 in	General Specifications	
Subunit TypeGel-freeJacket ColorBlackJacket MarkingFeetSubunit, quantity8Fibers per Subunit, quantity12Total Fiber Count96DimensionsSubunit of the subunit DiameterBuffer Tube/Subunit Diameter2.5 mm 0.098 in	Cable Type	Stranded loose tube
Jacket ColorBlackJacket MarkingFeetSubunit, quantity8Fibers per Subunit, quantity12Total Fiber Count96Dimensions12Buffer Tube/Subunit Diameter2.5 mm 0.098 in	Construction Type	Non-armored
Jacket MarkingFeetSubunit, quantity8Fibers per Subunit, quantity12Total Fiber Count96Dimensions15Buffer Tube/Subunit Diameter2.5 mm 0.098 in	Subunit Type	Gel-free
Subunit, quantity 8 Fibers per Subunit, quantity 12 Total Fiber Count 96 Dimensions 2.5 mm 0.098 in	Jacket Color	Black
Fibers per Subunit, quantity12Total Fiber Count96Dimensions2.5 mm 0.098 in	Jacket Marking	Feet
Total Fiber Count96Dimensions2.5 mm 0.098 in	Subunit, quantity	8
DimensionsBuffer Tube/Subunit Diameter2.5 mm 0.098 in	Fibers per Subunit, quantity	12
Buffer Tube/Subunit Diameter2.5 mm 0.098 in	Total Fiber Count	96
	Dimensions	
Diameter Over Jacket13.5 mm 0.531 in	Buffer Tube/Subunit Diameter	2.5 mm 0.098 in
	Diameter Over Jacket	13.5 mm 0.531 in

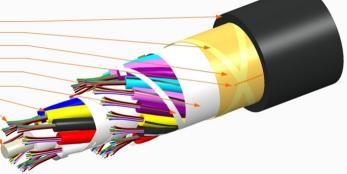
Representative Image

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PVC Outer Jacket Binder Flame Retardant Tape Ripcord (1) Water Swellable Tape Binder 2.5mm Gel-Free Buffer Tubes 250 micron Fibers Dielectric Strength Member



Mechanical Specifications

Minimum Bend Radius, loaded	202 mm 7.953 in
Minimum Bend Radius, unloaded	134 mm 5.276 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	4.41 N-m 39.032 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	500 m 1,640.42 ft
Optical Specifications	
Fiber Type	G.652.D and G.657.A1, TeraSPEED® OS2 OS2
Environmental Specifications	

Installation temperature-10 °C to +60 °C (+14 °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)

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Cable Qualification Standards	ANSI/ICEA S-104-696 EN 187105 Telcordia GR-409
Environmental Space	Riser
Flame Test Listing	NEC OFNR (ETL) and c(ETL)
Flame Test Method	UL 1666
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 +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

164 kg/km | 110.203 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
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
ROHS	Compliant
UK-ROHS	Compliant



Included Products

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

* Footnotes

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Operating Temperature Specification applicable to non-terminated bulk fiber cable

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