

Fiber Indoor/Outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, Riser Rated, 12 fiber, Gel-Free, Stranded Loose Tube, Singlemode G.652. D and G.657.A1, Feet jacket marking, Black jacket color

## Product Classification

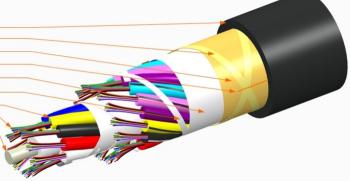
Regional Availability	Asia   Australia/New Zealand   Latin America   Middle East /Africa   North America	
Portfolio	CommScope®	
Product Type	Fiber indoor/outdoor cable	
Product Series	R-LN	
General Specifications		
Cable Type	Stranded loose tube	
Construction Type	Non-armored	
Subunit Type	Gel-free	
Filler, quantity	4	
Jacket Color	Black	
Jacket Marking	Feet	
Subunit, quantity	1	
Fibers per Subunit, quantity	12	
Total Fiber Count	12	
Dimensions		
Buffer Tube/Subunit Diameter	2.5 mm   0.098 in	
Diameter Over Jacket	11.5 mm   0.453 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	173 mm   6.811 in
Minimum Bend Radius, unloaded	115 mm   4.528 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	2.94 N-m   26.021 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	692 m   2,270.341 ft
Optical Specifications	
Fiber Type	G.652.D and G.657.A1, TeraSPEED®   OS2   OS2
Environmental Specifications	

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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

118 kg/km | 79.292 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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**COMMSCOPE**°

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

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