



Fiber indoor/outdoor cable, TeraSPEED® Riser Rated, Gel-Free, Multimode/Singlemode, 96 fiber, Stranded Loose Tube with Aluminum Interlocking Armor containing a Riser Rated Outer Jacket, Black jacket color, Feet cable marking

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-LZ

General Specifications

Armor Type	Interlocking aluminum
Cable Type	Stranded loose tube
Construction Type	Armored
Subunit Type	Gel-free
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	8
Fibers per Subunit, quantity	12
Composite Fiber Count	48 + 48
Total Fiber Count	96

Dimensions

Buffer Tube/Subunit Diameter	2.5 mm 0.098 in
Diameter Over Armor	19.7 mm 0.776 in
Diameter Over Jacket	21.7 mm 0.854 in

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded	435 mm 17.126 in
Minimum Bend Radius, unloaded	304 mm 11.969 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	1335 N 300.12 lbf
Compression	85 N/mm 485.363 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	35 N-m 309.776 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	107 m 351.05 ft

Optical Specifications

Fiber Type	Composite MM/SM G.652.D and G.657.A1, TeraSPEED® OM3, LazrSPEED® 300 OS2 OS2
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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)

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Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696 EN 187105 Telcordia GR-409
Environmental Space	Riser
Flame Test Listing	NEC OFCR (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	378 kg/km 254.004 lb/kft
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Regulatory Compliance/Certifications

Agency	Classification
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system



Included Products

- CS-5L-LT - LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber
- CS-8W-IOLT - TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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