



Fiber indoor/outdoor cable, LightScope ZWP®, Single Jacket All-Dielectric, Riser Rated, 96 fiber, Gel-Free, Stranded Loose Tube, Singlemode + Multimode OM4, 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

Jacket Color

Black

Jacket Marking

Feet

Subunit, quantity

8

Fibers per Subunit, quantity

12

Composite Fiber Count

72 + 24

Total Fiber Count

96

Dimensions

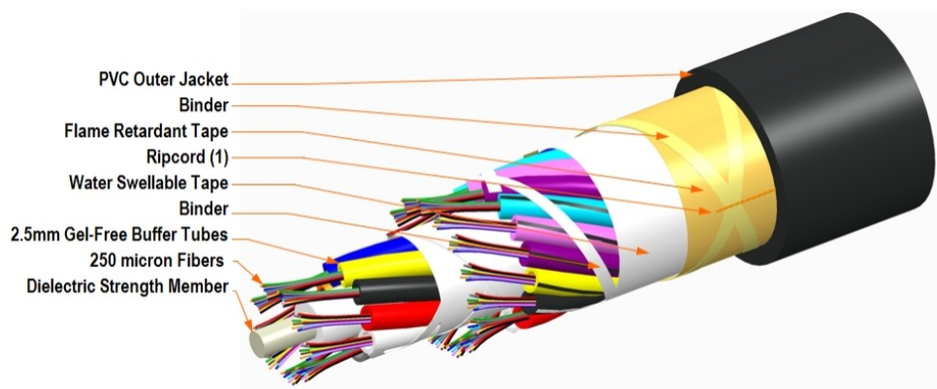
Buffer Tube/Subunit Diameter

2.5 mm | 0.098 in

Diameter Over Jacket

13.5 mm | 0.531 in

Representative Image



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	Composite MM/SM G.652.D and G.657.A1 G.652.D and G.657.A1, TeraSPEED® OM4, LazrSPEED® 550 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 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
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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-5K-LT	- LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber
CS-8W-IOLT	- TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable