

Indoor/Outdoor Low Smoke Zero Halogen MicroDistribution Cable, 12-Fiber

Product Classification

Regional Availability	Europe
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	Z-MD

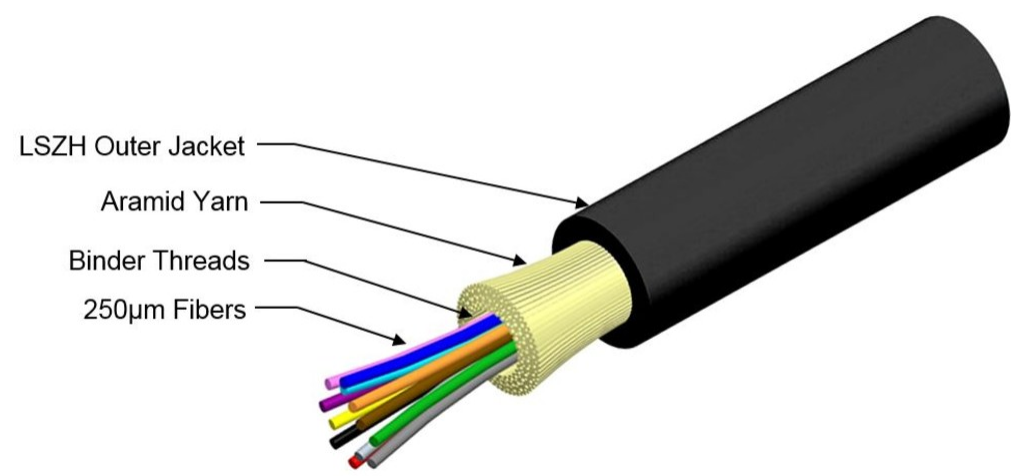
General Specifications

Cable Type	Distribution
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	1
Total Fiber Count	12

Dimensions

Diameter Over Jacket	3.65 mm   0.144 in
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Representative Image



## Mechanical Specifications

Minimum Bend Radius, loaded	54 mm   2.126 in
Minimum Bend Radius, unloaded	29 mm   1.142 in
Tensile Load, long term, maximum	54 N   12.14 lbf
Tensile Load, short term, maximum	178 N   40.016 lbf
Compression	4 N/mm   22.841 lb/in
Compression Test Method	FOTP-41   IEC 60794-1 E3
Flex	300 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	400 m   1,312.336 ft

## Optical Specifications

Fiber Type	G.657.A2/B2
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## Environmental Specifications

Installation temperature	-10 °C to +60 °C (+14 °F to +140 °F)
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Operating Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696   Telcordia GR-20 (water penetration)   Telcordia GR-409
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)
Flame Test Listing	NEC OFNR-ST1 (ETL) and c(ETL)
Flame Test Method	IEC 60754-2   IEC 61034-2   UL 1666   UL 1685
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82   IEC 60794-1 F5

### Environmental Test Specifications

Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-10 °C to +60 °C (+14 °F to +140 °F)
Low High Bend Test Method	FOTP-37   IEC 60794-1 E11
Temperature Cycle	-40 °C to +75 °C (-40 °F to +167 °F)
Temperature Cycle Test Method	FOTP-3   IEC 60794-1 F1

### Packaging and Weights

Cable weight	12.7 kg/km   8.534 lb/kft
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### Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on <a href="https://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a>
ROHS	Compliant
UK-ROHS	Compliant



Included Products

- CS-8V-MD
- Enhanced Low Macrobending, Low Water Peak, Dispersion-Unshifted Single-mode Fiber

\* Footnotes

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