

Fiber Indoor/Outdoor Cable, Low Smoke Zero Halogen Micro-Distribution, 12-Fiber, Multimode OM3, Gel-free, Feet jacket marking, Black jacket color, Dca flame rating

## Product Classification

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

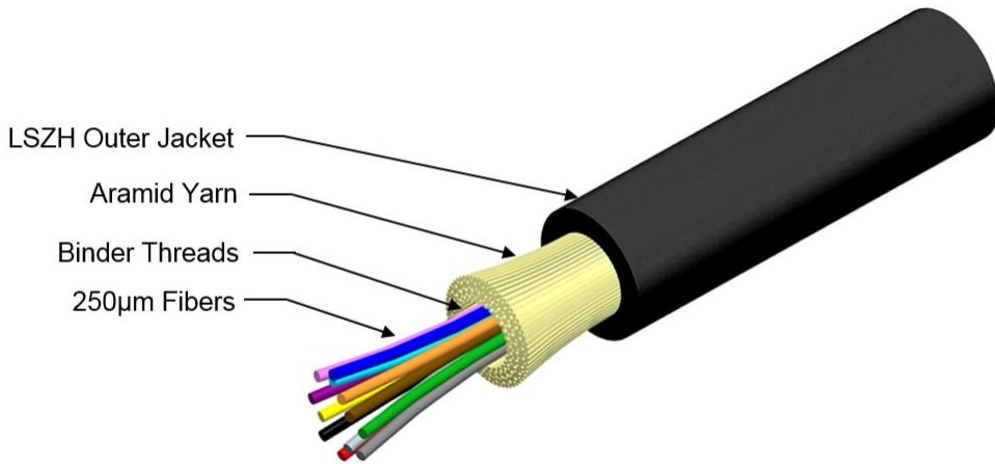
## General Specifications

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

## Dimensions

<b>Diameter Over Jacket</b>	3.65 mm   0.144 in
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## Representative Image



## Mechanical Specifications

<b>Minimum Bend Radius, loaded</b>	54 mm   2.126 in
<b>Minimum Bend Radius, unloaded</b>	29 mm   1.142 in
<b>Tensile Load, long term, maximum</b>	54 N   12.14 lbf
<b>Tensile Load, short term, maximum</b>	178 N   40.016 lbf
<b>Compression</b>	4 N/mm   22.841 lb/in
<b>Compression Test Method</b>	FOTP-41   IEC 60794-1 E3
<b>Flex</b>	300 cycles
<b>Flex Test Method</b>	FOTP-104   IEC 60794-1 E6
<b>Impact</b>	2.94 N-m   26.021 in lb
<b>Impact Test Method</b>	FOTP-25   IEC 60794-1 E4
<b>Strain</b>	See long and short term tensile loads
<b>Strain Test Method</b>	FOTP-33   IEC 60794-1 E1
<b>Twist</b>	10 cycles
<b>Twist Test Method</b>	FOTP-85   IEC 60794-1 E7
<b>Vertical Rise, maximum</b>	400 m   1,312.336 ft

## Optical Specifications

<b>Fiber Type</b>	OM3, LazrSPEED® 300
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## Environmental Specifications

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

## Environmental Test Specifications

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

## Packaging and Weights

<b>Cable weight</b>	12.7 kg/km   8.534 lb/kft
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## Included Products

- CS-5E1-MP – LazrSPEED® 300 OM3 Bend-Insensitive Multimode Fiber

## \* Footnotes

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