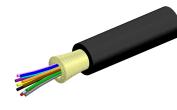
# 760253895 | Z-024-MD-8G-F36BK/D



Fiber Indoor/Outdoor cable, Low Smoke Zero Halogen Micro Distribution, 24-Fiber, Singlemode G.657.A2/B2, Feet jacket marking, Black jacket color, Dca flame rating

#### 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	24	
Dimensions		
Diameter Over Jacket	3.65 mm   0.144 in	

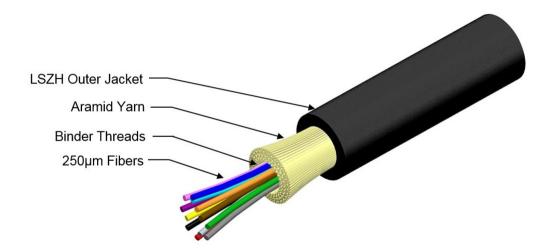
Representative Image

Page 1 of 5

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### 760253895 | Z-024-MD-8G-F36BK/D



#### 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

#### Environmental Specifications

#### Installation temperature

-10 °C to +60 °C (+14 °F to +140 °F)

Page 2 of 5

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## 760253895 | Z-024-MD-8G-F36BK/D

Operating Temperature	-40 °C to +75 °C (-40 °F to +167 °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   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	al
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

13 kg/km | 8.736 lb/kft

#### Included Products

CS-8G-MD

Enhanced Low Macrobending, Low Water Peak, Dispersion-Unshifted Single-mode Fiber

### \* Footnotes

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

Page 3 of 5

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Enhanced Low Macrobending, Low Water Peak, Dispersion-Unshifted Single-mode Fiber

Product Classification	
Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±0.7 µm
Cladding Non-Circularity, maximum	0.5 %
Coating Diameter (Uncolored)	242 µm
Coating Diameter Tolerance (Colored)	±7 μm
Coating Diameter Tolerance (Uncolored)	±7 μm
Coating/Cladding Concentricity Error, maximum	12 µm
Core/Clad Offset, maximum	0.5 µm
Proof Test	689.476 N/mm²   100000 psi
Dimensions	
Fiber Curl, minimum	4 m   13.123 ft
Mechanical Specifications	
Macrobending, 15 mm Ø mandrel, 1 turn	0.50 dB @ 1,550 nm   1.00 dB @ 1,625 nm
Macrobending, 20 mm Ø mandrel, 1 turn	0.10 dB @ 1,550 nm   0.20 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.03 dB @ 1,550 nm   0.10 dB @ 1,625 nm
Coating Strip Force, maximum	8.9 N   2.001 lbf
Coating Strip Force, minimum	1.3 N   0.292 lbf
Dynamic Fatigue Parameter, minimum	20
Optical Specifications	
Cabled Cutoff Wavelength, maximum	1260 nm
Point Defects, maximum	0.1 dB
Zero Dispersion Slope, maximum	0.092 ps/[km-nm-nm]
Zero Dispersion Wavelength, maximum	1324 nm

Page 4 of 5

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### CS-8G-MD

1300 nm Zero Dispersion Wavelength, minimum Optical Specifications, Wavelength Specific Attenuation, maximum 0.50 dB/km @ 1,310 nm | 0.50 dB/km @ 1,385 nm | 0.50 dB/km @ 1,550 nm **Backscatter Coefficient** -79.1 dB @ 1,310 nm | -81.4 dB @ 1,550 nm | -82.2 dB @ 1,625 nm Index of Refraction 1.467 @ 1,310 nm | 1.467 @ 1,550 nm | 1.468 @ 1,625 nm **Mode Field Diameter** 8.9 µm @ 1,310 nm | 9.9 µm @ 1,550 nm **Mode Field Diameter Tolerance** ±0.4 µm @ 1310 nm | ±0.5 µm @ 1550 nm 0.1 ps/sqrt(km) Polarization Mode Dispersion Link Design Value, maximum **Standards Compliance** ITU-T G.657.A2 | ITU-T G.657.B2

#### **Environmental Specifications**

Heat Aging, maximum	0.05 dB/km @ 85 °C
Temperature Dependence, maximum	0.05 dB/km
Temperature Humidity Cycling, maximum	0.05 dB/km
Water Immersion, maximum	0.05 dB/km @ 23 °C

#### \* Footnotes

Temperature Dependence, maximum	Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F)
Temperature Humidity Cycling, maximum	Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity

Page 5 of 5

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