# 760252029 | 0-004-CA-8Z-M04BK/28G/093



Fiber OSP cable, PE, Gel-filled Central Tube, CST, 4 fiber, Singlemode G. 652.D and G.657.A1, Meters jacket marking, Black jacket color

### Product Classification

Regional Availability	Asia   Australia/New Zealand	
Portfolio	CommScope®	
Product Type	Fiber OSP cable	
Product Series	O-LA	
General Specifications		
Cable Type	Central loose tube	
Construction Type	Armored	
Subunit Type	Gel-filled	
Jacket Color	Black	
Jacket Marking	Meters	
Fibers per Subunit, quantity	4	
Total Fiber Count	4	
Dimensions		
Buffer Tube/Subunit Diameter	2.8 mm   0.11 in	
Diameter Over Jacket	9.1 mm   0.358 in	
Mechanical Specifications		
Minimum Bend Radius, loaded	182 mm   7.165 in	
Minimum Bend Radius, unloaded	91 mm   3.583 in	
Tensile Load, long term, maximum	890 N   200.08 lbf	
Tensile Load, short term, maximum	2700 N   606.984 lbf	
Compression	20 N/mm   114.203 lb/in	
Compression Test Method	IEC 60794-1-2 E3	

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Flex		25 cycles
Strain		See long and short term tensile loads
Strain Test Method		IEC 60794-1-2-E1
Optical Specifications		
Fiber Type		G.652.D and G.657.A1   OS2
Optical Specifications, Wavelength Specific		
Attenuation, maximum		0.22 dB/km @ 1,550 nm   0.38 dB/km @ 1,310 nm
Environmental S	pecifications	
Installation temperature		-10 °C to +60 °C (+14 °F to +140 °F)
Operating Temperature		-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature		-40 °C to +70 °C (-40 °F to +158 °F)
Environmental Space		Buried   Ducted   Outdoor
Water Penetration		24 h
Water Penetration Test Method		IEC 60794-1 F5B
Environmental T	est Specificat	ions
Temperature Cycle		-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method		IEC 60794-1-2 F1
Packaging and Weights		
Cable weight		92 kg/km   61.821 lb/kft
Regulatory Compliance/Certifications		
Agency	Classification	
CHINA-ROHS	Below maximum concentration value	
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance	
ROHS	Compliant	
UK-ROHS	Compliant	

### Included Products

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CS-8Z-LT

Low Water Peak, Dispersion-Unshifted Singlemode Fiber

### \* Footnotes

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

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Low Water Peak, Dispersion-Unshifted Singlemode 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	1 %
Coating Diameter (Colored)	250 µm
Coating Diameter (Uncolored)	245 µm
Coating Diameter Tolerance (Colored)	±15 μm
Coating Diameter Tolerance (Uncolored)	±10 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, 32 mm Ø mandrel, 1 turn	0.50 dB @ 1,550 nm
Macrobending, 50 mm Ø mandrel, 100 turns	0.05 dB @ 1,550 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	18
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

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### CS-8Z-LT

1300 nm Zero Dispersion Wavelength, minimum Optical Specifications, Wavelength Specific Attenuation, maximum 0.25 dB/km @ 1,550 nm | 0.35 dB/km @ 1,310 nm | 0.35 dB/km @ 1,385 nm Index of Refraction 1.467 @ 1,310 nm | 1.468 @ 1,550 nm **Mode Field Diameter** 10.4 µm @ 1,550 nm | 9.2 µm @ 1,310 nm | 9.6 µm @ 1,385 nm **Mode Field Diameter Tolerance** ±0.4 µm @ 1310 nm | ±0.5 µm @ 1550 nm | ±0.6 µm @ 1385 nm Polarization Mode Dispersion Link Design Value, maximum 0.08 ps/sqrt(km) **Standards Compliance** ITU-T G.652.D | ITU-T G.657.A1 | TIA-492CAAB (OS2) **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

#### Regulatory Compliance/Certifications

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

#### \* 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

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