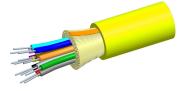
# 760249370 | N-004-DS-8Z-MSUYL/093



Fiber indoor cable, Low Smoke Zero Halogen Distribution, 4 fiber singleunit, Singlemode G.657.A1, Meters jacket marking, Yellow jacket color

### Product Classification

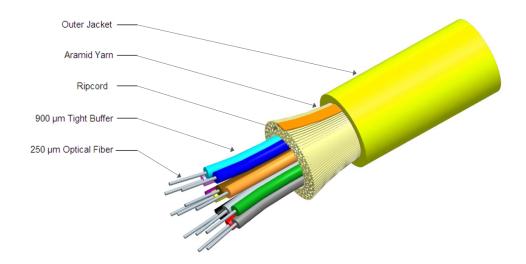
Regional Availability	Asia   Australia/New Zealand
Portfolio	CommScope®
Product Type	Fiber indoor cable
Product Series	N-DS
General Specifications	
Cable Type	Distribution
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Yellow
Jacket Marking	Meters
Total Fiber Count	4
Dimensions	
Diameter Over Jacket	4.8 mm   0.189 in
Representative Image	

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## 760249370 | N-004-DS-8Z-MSUYL/093



### Mechanical Specifications

Minimum Bend Radius, loaded	96 mm   3.78 in	
Minimum Bend Radius, unloaded	48 mm   1.89 in	
Tensile Load, long term, maximum	198 N   44.512 lbf	
Tensile Load, short term, maximum	660 N   148.374 lbf	
Compression	10 N/mm   57.101 lb/in	
Compression Test Method	IEC 60794-1 E3	
Strain	See long and short term tensile loads	
Strain Test Method	IEC 60794-1 E1	
Twist	10 cycles	
Twist Test Method	IEC 60794-1 E7	
Optical Specifications		
Fiber Type	G.657.A1	
Optical Specifications, Wavelength Specific		
Attenuation, maximum	0.30 dB/km @ 1,550 nm   0.40 dB/km @ 1,310 nm	
Environmental Specifications		
Installation temperature	-10 °C to +60 °C (+14 °F to +140 °F)	
Operating Temperature	-20 °C to +70 °C (-4 °F to +158 °F)	

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# 760249370 | N-004-DS-8Z-MSUYL/093

Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Environmental Space	Low Smoke Zero Halogen (LSZH)   Riser
Flame Test Listing	NEC OFNR (UL) and c(UL)
Flame Test Method	IEC 60332-3   UL 1666   UL 1685

#### **Environmental Test Specifications**

Temperature Cycle Test Method IEC 6

IEC 60794-1 F1

### 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

CS-8Z-TB-0.40/0.30/093 - Low Water Peak, Dispersion-Unshifted Singlemode Fiber

#### \* Footnotes

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

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## CS-8Z-TB-0.40/0.30/093

#### 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)	±10 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, 20 mm Ø mandrel, 1 turn	0.75 dB @ 1,550 nm   1.50 dB @ 1,625 nm
Macrobending, 30 mm Ø mandrel, 10 turns	0.25 dB @ 1,550 nm   1.00 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

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**COMMSCOPE**°

## CS-8Z-TB-0.40/0.30/093

Zero Dispersion Wavelength, minimum		1300 nm
Optical Specifications, Wavelen	gth Specific	
Attenuation, maximum		0.30 dB/km @ 1,550 nm   0.40 dB/km @ 1,310 nm   0.40 dB/km @ 1,385 nm
Index of Refraction		1.467 @ 1,310 nm   1.468 @ 1,550 nm   1.468 @ 1,625 nm
Mode Field Diameter		9.0 μm @ 1,310 nm
Mode Field Diameter Tolerance		±0.4 μm @ 1310 nm
Polarization Mode Dispersion Link Design Value	, maximum	0.1 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
* 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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