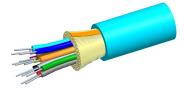
# 760249360 | N-008-DS-5Y-MSUAQ/093



Fiber indoor cable, Low Smoke Zero Halogen Distribution, 8 fiber singleunit, Multimode OM3, Meters jacket marking, Aqua jacket color

### Product Classification

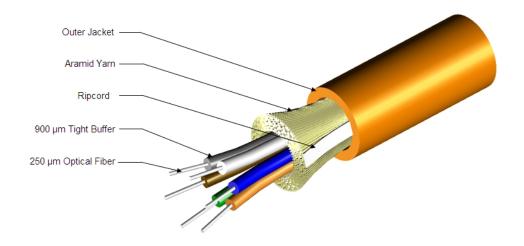
Regional Availability	Asia   Australia/New Zealand
Portfolio	CommScope®
Product Type	Fiber indoor cable
Product Series	N-DS
General Specifications	
Cable Type	Distribution
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Aqua
Jacket Marking	Meters
Total Fiber Count	8
Dimensions	
Diameter Over Jacket	5.4 mm   0.213 in
Representative Image	

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### Mechanical Specifications

Minimum Bend Radius, loaded	108 mm   4.252 in
Minimum Bend Radius, unloaded	54 mm   2.126 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 Test Method	IEC 60794-1 E1

#### **Optical Specifications**

Fiber Type

ОМ3

#### Optical Specifications, Wavelength Specific

Attenuation, maximum 1.00 dB/km @ 1,300 nm | 3.00 dB/km @ 850 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)
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

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### **Environmental Test Specifications**

Temperature Cycle Test Method IEC 60794-1-22 F1

### Regulatory Compliance/Certifications

#### Agency

CHINA-ROHS

REACH-SVHC

ROHS UK-ROHS Classification Below maximum concentration value Compliant as per SVHC revision on www.commscope.com/ProductCompliance Compliant Compliant



### Included Products

CS-5Y-TB-3.0/1.0/093 - OM3 Bend-Insensitive Multimode Fiber

### \* Footnotes

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

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# CS-5Y-TB-3.0/1.0/093

#### OM3 Bend-Insensitive Multimode Fiber

#### **Product Classification**

Portfolio	CommScope®
Product Type	Optical fiber
General Specifications	
Cladding Diameter	125 µm
Cladding Diameter Tolerance	±1.0 μm
Cladding Non-Circularity, maximum	1 %
Coating Diameter (Colored)	245 µm
Coating Diameter Tolerance (Colored)	±10 µm
Coating/Cladding Concentricity Error, maximum	12 µm
Core Diameter	50 µm
Core Diameter Tolerance	±2.5 μm
Core/Clad Offset, maximum	1.5 µm
Proof Test	689.476 N/mm <sup>2</sup>   100000 psi
Tight Buffer Diameter	900 µm
Tight Buffer Diameter Tolerance	±40 μm

### Mechanical Specifications

Macrobending, 15 mm Ø mandrel, 2 turns	0.20 dB @ 850 nm   0.50 dB @ 1,300 nm
Macrobending, 30 mm Ø mandrel, 2 turns	0.10 dB @ 850 nm   0.30 dB @ 1,300 nm
Macrobending, 75 mm Ø mandrel, 100 turns	0.50 dB @ 1,300 nm   0.50 dB @ 850 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	
Numerical Aperture	0.2
Numerical Aperture Tolerance	±0.015
Point Defects, maximum	0.15 dB

Zero Dispersion Slope, maximum

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0.105 ps/[km-nm-nm]

**COMMSCOPE**°

# CS-5Y-TB-3.0/1.0/093

Zero Dispersion Wavelength, maximum	1316 nm
Zero Dispersion Wavelength, minimum	1297 nm

# Optical Specifications, Wavelength Specific

1 Gbps Ethernet Distance	1,020 m @ 850 nm   600 m @ 1,300 nm
10 Gbps Ethernet Distance	300 m @ 850 nm
Attenuation, maximum	1.00 dB/km @ 1,300 nm   3.00 dB/km @ 850 nm
Backscatter Coefficient	-68.0 dB @ 850 nm   -75.7 dB @ 1,300 nm
Bandwidth, Laser, minimum	2,000 MHz-km @ 850 nm \mid 500 MHz-km @ 1,300 nm
Bandwidth, OFL, minimum	1,500 MHz-km @ 850 nm \mid 500 MHz-km @ 1,300 nm
Differential Mode Delay	0.70 ps/m @ 850 nm   0.88 ps/m @ 1,300 nm
Differential Mode Delay Note	Superior to TIA-492AAAC and IEC 60793-2-10 at 850 nm
Index of Refraction	1.479 @ 1,300 nm   1.483 @ 850 nm
Standards Compliance	TIA-492AAAC (OM3)

# **Environmental Specifications**

Heat Aging, maximum	0.20 dB/km @ 85 °C
Temperature Dependence, maximum	0.1 dB/km
Temperature Humidity Cycling, maximum	0.2 dB/km
Water Immersion, maximum	0.20 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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