810009882/DB | C-012-DS-8W-MSUYL/GY/C



Fiber indoor/outdoor cable, LightScope ZWP®, 12 fiber, office distribution, Singlemode G.652.D and G.657.A1, ULSZH, Yellow jacket color, Cca flame rating. Provides Rodent Resistance

- designed to offer flexibility, strength and compact construction for internal and interbuilding use
- non-metallic construction reinforced by E-glass yarns, which provide rodent resistance and higher tensile strength
- oversheathed with a ULSZH jacket meeting IEC fire performance requirements

OBSOLETE

This product was discontinued on: March 31, 2023

Product Classification

Regional Availability	Asia EMEA	
Portfolio	CommScope®	
Product Type	Fiber indoor/outdoor cable	
Product Series	C-DS	
General Specifications		
Cable Type	Tight buffer	
Jacket Color	Yellow	
Jacket Marking	Meters	
Strength Members	E-glass yarns	
Fibers per Subunit, quantity	12	
Total Fiber Count	12	
Dimensions		
Diameter Over Jacket	8 mm 0.315 in	
Mechanical Specifications		
Minimum Bend Radius, loaded	200 mm 7.874 in	
Minimum Bend Radius, unloaded	120 mm 4.724 in	
Tensile Load, short term, maximum	1500 N 337.214 lbf	

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Cable Crush Resistance, maximum	20 N/mm 114.203 lb/in			
Optical Specifications				
Fiber Type	OS2			
Optical Specifications, Wavelength Specific				
Standards Compliance	IEC 60794-1 TIA-492CAAB (OS2)			
Environmental Specifications				
Installation temperature	-5 °C to +50 °C (+23 °F to +122 °F)			
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)			
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)			
EN50575 CPR Cable EuroClass Fire Performance	Сса			
EN50575 CPR Cable EuroClass Smoke Rating	s2			
EN50575 CPR Cable EuroClass Droplets Rating	d1			
EN50575 CPR Cable EuroClass Acidity Rating	а1			
Environmental Space	Universal Low Smoke Zero Halogen (ULSZH)			
Packaging and Meights				

Packaging and Weights

Cable weight

69 kg/km | 46.366 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

DB-8W-TB – LightScope ZWP® Singlemode Fiber

* Footnotes

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Operating Temperature Specification applicable to non-terminated bulk fiber cable

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COMMSCOPE°

DB-8W-TB

LightScope[®] 200P

LightScope ZWP® 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	0.7 %	
Coating Diameter (Colored)	249 μm	
Coating Diameter (Uncolored)	242 µm	
Coating Diameter Tolerance (Colored)	±13 μm	
Coating Diameter Tolerance (Uncolored)	±5 μm	
Coating/Cladding Concentricity Error, maximum	12 µm	
Core Diameter	8.3 µm	
Core/Clad Offset, maximum	0.5 µm	
Proof Test	689.476 N/mm² 100000 psi	
Tight Buffer Diameter	900 µm	
Tight Buffer Diameter Tolerance	±40 μm	
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	
Macrobending, 60 mm Ø mandrel, 100 turns	0.05 dB @ 1,550 nm 0.05 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

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COMMSCOPE°

DB-8W-TB

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
Zero Dispersion Wavelength, minimum	1300 nm
Optical Specifications, Wavelength Specific	
Attenuation, maximum	0.50 dB/km @ 1,310 nm 0.50 dB/km @ 1,385 nm 0.50 dB/km @ 1,490 nm 0.50 dB/km @ 1,550 nm 0.50 dB/km @ 1,575 nm 0.70 dB/km @ 1,625 nm 1.00 dB/km @ 1,650 nm
Backscatter Coefficient	-79.6 dB @ 1,310 nm -82.1 dB @ 1,550 nm
Dispersion, maximum	18 ps(nm-km) at 1550 nm 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm
Index of Refraction	1.467 @ 1,310 nm 1.467 @ 1,385 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	0.04 ps/sqrt(km)
Standards Compliance	ITU-T G.652.D ITU-T G.657.A1 TIA-492CAAB (OS1a)

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

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DB-8W-TB

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

Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +1 up to 95% relative humidity

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