# 760252670 | C-036-LN-8W-M12BK/25D/E



Fiber indoor/outdoor cable, TeraSPEED®, Single Jacket All-Dielectric, Low Smoke Zero Halogen (LSZH), 36 fiber, Singlemode G.652.D and G. 657.Al, Gel-Free, Stranded Loose Tube, Black jacket color, Meters cable marking, Eca flame rating

#### Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America   North America		
Portfolio	CommScope®		
Product Type	Fiber indoor/outdoor cable		
Product Series	C-LN		
General Specifications			
Cable Type	Stranded loose tube		
Construction Type	Non-armored		
Subunit Type	Gel-free		
Filler, quantity	2		
Jacket Color	Black		
Jacket Marking	Meters		
Jacket Marking Method	Inkjet		
Jacket Marking Text	COMMSCOPE GB OPTICAL CABLE OS2 SM 36 FIBER EN50575 CLASS E [SERIAL NUMBER] [MM /YY] [METRE MARK]		
Subunit, quantity	3		
Fibers per Subunit, quantity	12		
Total Fiber Count	36		
Dimensions			
Buffer Tube/Subunit Diameter	2.5 mm   0.098 in		
Diameter Over Jacket	11.7 mm   0.461 in		

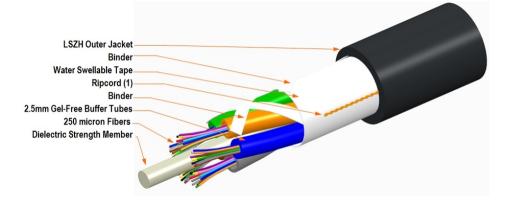
#### Representative Image

Page 1 of 6

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#### Mechanical Specifications

Minimum Bend Radius, loaded	175 mm   6.89 in
Minimum Bend Radius, unloaded	117 mm   4.606 in
Tensile Load, long term, maximum	800 N   179.847 lbf
Tensile Load, short term, maximum	2700 N   606.984 lbf
Compression	22 N/mm   125.623 lb/in
Compression Test Method	FOTP-41   IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104   IEC 60794-1 E6
Impact	3 N-m   26.552 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	654 m   2,145.669 ft
Optical Specifications	

Fiber Type

G.652.D and G.657.A1, TeraSPEED® | OS2 | OS2

#### **Environmental Specifications**

Installation temperature

**Operating Temperature** 

-30 °C to +60 °C (-22 °F to +140 °F) -40 °C to +70 °C (-40 °F to +158 °F)

Page 2 of 6

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**COMMSCOPE**°

# 760252670 | C-036-LN-8W-M12BK/25D/E

Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-104-696   EN 187105   Telcordia GR-20   Telcordia GR- 409
EN50575 CPR Cable EuroClass Fire Performance	Eca
Environmental Space	Aerial, lashed   Buried   Low Smoke Zero Halogen (LSZH)
Flame Test Listing	EN 50399
Flame Test Method	EN 50399   IEC 60332-1-2   IEC 60754-2
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82   IEC 60794-1 F5

#### Environmental Test Specifications

Cable Freeze	-2 °C   28.4 °F	
Cable Freeze Test Method	FOTP-98   IEC 60794-1 F15	
Drip	70 °C   158 °F	
Drip Test Method	FOTP-81   IEC 60794-1 E14	
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)	
Heat Age Test Method	IEC 60794-1 F9	
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)	
Low High Bend Test Method	FOTP-37   IEC 60794-1 E11	
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)	
Temperature Cycle Test Method	FOTP-3   IEC 60794-1 F1	

#### Packaging and Weights

Cable weight

125 kg/km | 83.996 lb/kft

#### Included Products

CS-8W-IOLT - TeraSPEED® OS2 Singlemode Fiber

#### \* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 3 of 6

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### TeraSPEED® OS2 Singlemode Fiber

## TeraSPEED®

### 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	
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	

Page 4 of 6

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### CS-8W-IOLT

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
Zero Dispersion Wavelength, minimum	1300 nm
Optical Specifications, Wavelength Specific	
Attenuation, maximum	0.22 dB/km @ 1,550 nm   0.25 dB/km @ 1,490 nm   0.25 dB/km @ 1,625 nm   0.36 dB/km @ 1,310 nm   0.36 dB/km @ 1,385 nm
Attenuation, typical	0.19 dB/km @ 1,550 nm   0.33 dB/km @ 1,310 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 (OS2)
Environmental Specifications	
Heat Aging, maximum	0.05 dB/km @ 85 °C

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

Classification

#### Agency

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

Page 5 of 6

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### CS-8W-IOLT

#### \* 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 6 of 6

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