

Fiber drop cable, TeraSPEED® Self-Support Figure-8 Single Jacket Non-Armor Arid-Core, central loose tube, 6 fiber, Singlemode, G.652.D and G. 657.A1, Gel-filled, Feet jacket marking, black jacket color

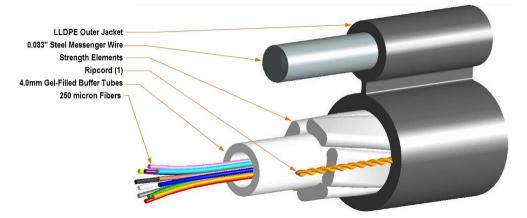
Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber drop cable
Product Series	M-DN
General Specifications	
Cable Type	Central loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	1
Fibers per Subunit, quantity	6
Total Fiber Count	6
Dimensions	
Height Over Jacket	11.5 mm 0.453 in
Buffer Tube/Subunit Diameter	4 mm 0.157 in
Diameter Over Jacket	6.8 mm 0.268 in
Diameter Over Messenger Jacket	3.4 mm 0.134 in

Representative Image

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Material Specifications

Jacket Material	PE
Mechanical Specifications	
Minimum Bend Radius, loaded	102 mm 4.016 in
Minimum Bend Radius, unloaded	68 mm 2.677 in
Tensile Load, long term, maximum	400 N 89.924 lbf
Tensile Load, short term, maximum	1334 N 299.895 lbf
Compression	10 N/mm 57.101 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	35 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	2.21 N-m 19.56 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	591 m 1,938.976 ft
Optical Specifications	

Fiber Type

G.652.D and G.657.A1 | G.652.D and G.657.A1

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Environmental Specifications

Installation temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)
Cable Qualification Standards	ANSI/ICEA S-110-717 EN 187105 Telcordia GR-20
Environmental Space	Aerial, self-support
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5

Environmental Test Specifications

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) Fomperature Cycle -40 °C to +70 °C (-40 °F to +158 °F) Temperature Cycle Test Method FOTP-31 IEC 60794-1 F1	Cable Freeze	-2 °C 28.4 °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)	Cable Freeze Test Method	FOTP-98 IEC 60794-1 F15
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)	Drip	70 °C 158 °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)	Drip Test Method	FOTP-81 IEC 60794-1 E14
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)	Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Low High Bend Test Method FOTP-37 IEC 60794-1 E11 Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)	Heat Age Test Method	IEC 60794-1 F9
Temperature Cycle -40 °C to +70 °C (-40 °F to +158 °F)	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 Test MethodFOTP-3 IEC 60794-1 F1	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

69 kg/km | 46.366 lb/kft

Regulatory Compliance/Certifications

Agency Classification

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

Included Products

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

* Footnotes

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Operating Temperature Specification applicable to non-terminated bulk fiber cable

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LightScope® ZWP Singlemode Fiber

LightScope[®] 2000

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 Tensile Stress	100,000 psi (0.69 GPa)	
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	

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DB-8W-LT

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

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

Classification

Agency

ISO 9001:2015

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

* Footnotes

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COMMSCOPE°

DB-8W-LT

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)

up to 95% relative humidity

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