

Fiber drop cable, TeraSPEED® Self-Support Figure-8 Single Jacket Non-Armor Arid-Core, central loose tube, 12 fibers, Singlemode, G.652.D and G.657.A1, Gel-filled, Feet jacket marking, black jacket color, Build America Buy America (BABA)

- *Product complies with the Build America, Buy America Act (BABAA) requirements of the Infrastructure Investment and Jobs Act of 2021 (Pub. L. 117- 58, §§ 70901-70953), or is the subject of a waiver approved by the Secretary of Commerce or designee. Compliance requirements and waiver applicability vary based on government funding program. Check the laws and regulations for your specific program.

Product Classification

Regional Availability	Asia Australia/New Zealand EMEA Latin America North America
Portfolio	CommScope®
Product Type	Fiber drop cable
Product Series	M-DN
Government Requirements	Build America Buy America (BABA) compliant*

General Specifications

Cable Type	Central loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Feet
Location of Manufacturing	Claremont, North Carolina
Subunit, quantity	1
Fibers per Subunit, quantity	12
Total Fiber Count	12

Dimensions

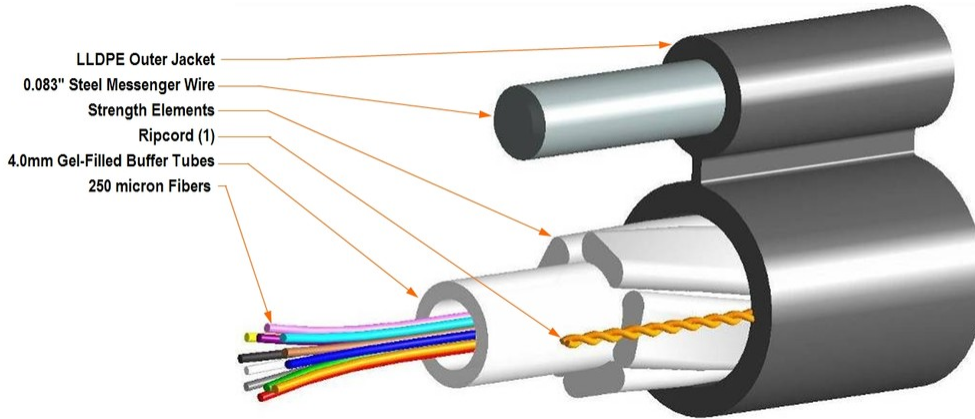
Height Over Jacket	11.5 mm 0.453 in
Buffer Tube/Subunit Diameter	4 mm 0.157 in
Diameter Over Jacket	6.8 mm 0.268 in

8106413/DB | M-012-DN-8W-F12NS/GSM

Diameter Over Messenger Jacket

3.4 mm | 0.134 in

Representative Image



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

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

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	-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 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

Operating Temperature Specification applicable to non-terminated bulk fiber cable