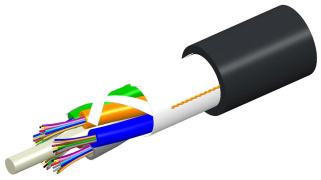
760185736 | D-084-LN-8W-F12NS/HD



TeraSPEED® Single Jacket All-Dielectric, Gel-Free, Outdoor Stranded Loose Tube Cable w/HDPE Outer Jacket

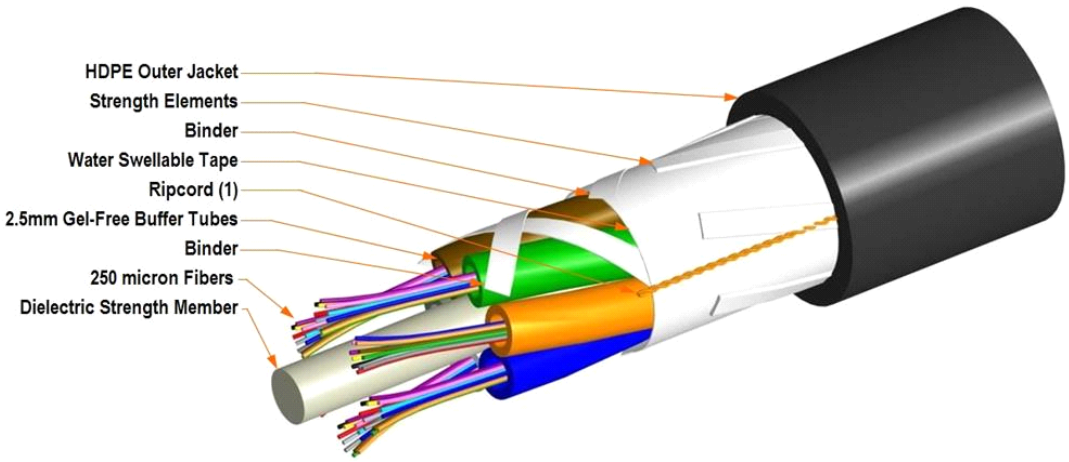
Product Classification

Portfolio	CommScope®
Product Type	Fiber OSP cable
Regional Availability	Asia | Australia/New Zealand | EMEA | Latin America | North America

Standards And Qualifications

Cable Qualification Standards	ANSI/ICEA S-87-640 | EN 187105 | Telcordia GR-20

Representative Image



General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-free

Construction Materials

Fiber Type Solution	G.652.D and G.657.A1 , TeraSPEED® | OS2
Jacket Material	High density polyethylene (HDPE)

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Total Fiber Count	84
Fiber Type	G.652.D and G.657.A1, TeraSPEED® | OS2
Fiber Type, quantity	84
Fibers per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

Dimensions

Buffer Tube/Subunit Diameter	2.50 mm | 0.10 in
Cable Weight	91.0 kg/km | 61.0 lb/kft
Diameter Over Jacket	12.00 mm | 0.47 in
Filler, quantity	1
Subunit, quantity	7

Physical Specifications

Minimum Bend Radius, loaded	18.1 cm | 7.1 in
Minimum Bend Radius, unloaded	12.0 cm | 4.7 in
Tensile Load, long term, maximum	800 N | 180 lbf
Tensile Load, short term, maximum	2700 N | 607 lbf
Vertical Rise, maximum	900.0 m | 2953.0 ft

Environmental Specifications

Environmental Space	Aerial, lashed | Buried
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)

Mechanical Test Specifications

Compression	22 N/mm | 125 lb/in
Compression Test Method	FOTP-41 | IEC 60794-1 E3
Flex	35 cycles
Flex Test Method	FOTP-104 | IEC 60794-1 E6
Impact	4.41 N-m | 3.25 ft 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
Water Penentration	24 h

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Water Penentration Test Method	FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze	-2 °C | 28 °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)
Temperature Cycle Test Method	FOTP-3 | IEC 60794-1 F1

Regulatory Compliance/Certifications

Agency	**Classification**
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system

Included Products

CS-8W-LT (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

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