

OSP Figure-8, Single Jacket/Non-Armored, Gel-Filled, Outdoor Stranded Loose Tube cable (0.19" messenger, 7 x 1.6 mm)

Product Classification

Regional Availability	Asia Latin America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	M-LN

General Specifications

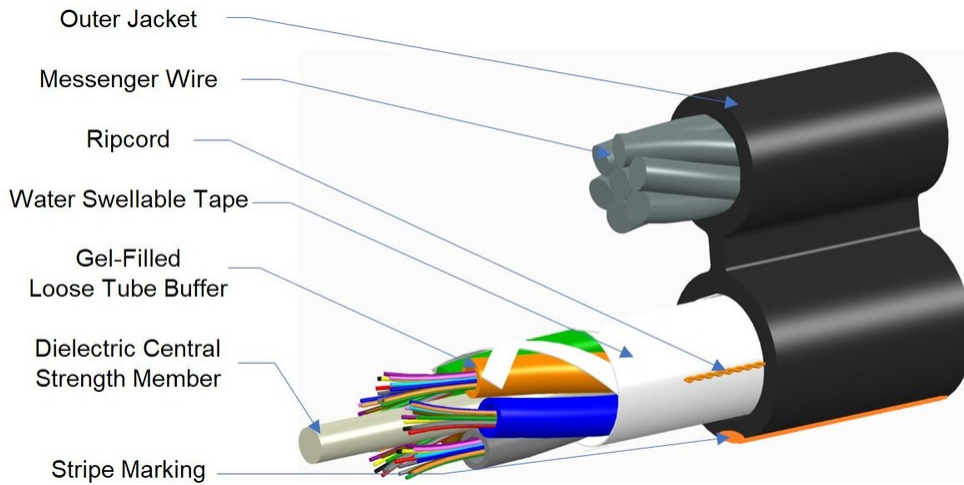
Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Custom printing
Subunit, quantity	8
Fibers per Subunit, quantity	12
Total Fiber Count	96

Dimensions

Height Over Jacket	21.5 mm 0.846 in
Buffer Tube/Subunit Diameter	2 mm 0.079 in
Diameter Over Jacket	11 mm 0.433 in

Representative Image

PL8102142/DB | M-096-LN-8Z-X120R/20G/190/95R



Material Specifications

Jacket Material High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, buffer tube 20 mm | 0.787 in
Minimum Bend Radius, loaded 220 mm | 8.661 in
Minimum Bend Radius, unloaded 165 mm | 6.496 in
Tensile Load, long term, maximum 2700 N | 606.984 lbf
Tensile Load, short term, maximum 8000 N | 1,798.472 lbf
Compression 20 N/mm | 114.203 lb/in
Compression Test Method FOTP-41 | IEC 60794-1 E3
Flex 25 cycles
Flex Test Method FOTP-104 | IEC 60794-1 E6
Impact 10 N-m | 88.507 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

Optical Specifications

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

Environmental Specifications

Installation temperature	-15 °C to +70 °C (+5 °F to +158 °F)
Operating Temperature	-30 °C to +70 °C (-22 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	ANSI/ICEA S-87-640 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	270 kg/km 181.432 lb/kft
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Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
ROHS	Compliant
UK-ROHS	Compliant



Included Products

PL8102142/DB | M-096-LN-8Z-X120R/20G/190 /95R

CS-8Z-LT-(0.21DB/KM@1550NM) – Low Water Peak, Dispersion-Unshifted Singlemode Fiber (0.21 dB/km @1550nm)

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable