



Fiber OSP cable, Zero Water Peak® Blown Micro Single Jacket All-Dielectric Stranded Loose Tube, Singlemode G.657.A1, 144 fiber, Gel-filled, 200um Fiber Arid-Core™ Construction, Meters jacket marking, Black jacket color

## Product Classification

Regional Availability	Asia   Australia/New Zealand   EMEA   Latin America
Portfolio	CommScope®
Product Type	Fiber OSP cable
Product Series	B-LN

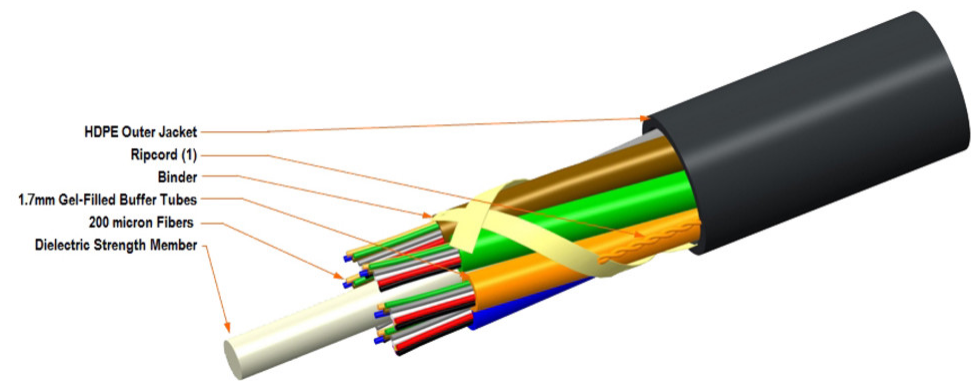
## General Specifications

Cable Type	Stranded loose tube
Construction Type	Non-armored
Subunit Type	Gel-filled
Filler, quantity	0
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Laser
Jacket Marking Text	COMMScope OPTICAL CABLE G657A1 SM 144F [SERIAL NUMBER] MM/YYYY [METERS] M
Subunit, quantity	6
Fibers per Subunit, quantity	24
Total Fiber Count	144

## Dimensions

Buffer Tube/Subunit Diameter	1.7 mm   0.067 in
Diameter Over Jacket	6.2 mm   0.244 in

## Representative Image



Material Specifications

Jacket Material

High density polyethylene (HDPE)

Mechanical Specifications

Minimum Bend Radius, loaded	93 mm   3.661 in
Minimum Bend Radius, unloaded	62 mm   2.441 in
Tensile Load, long term, maximum	335 N   75.311 lbf
Tensile Load, short term, maximum	1000 N   224.809 lbf
Compression	10 N/mm   57.101 lb/in
Compression Test Method	FOTP-41   IEC 60794-1 E3
Flex	25 cycles
Flex Test Method	FOTP-104   IEC 60794-1 E6
Impact	0.3 N-m   2.655 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	769 m   2,522.966 ft

Optical Specifications

Fiber Type

G.657.A1, TeraSPEED®

Environmental Specifications

810009724/DB | B-144-LN-8F-M24NS/17T 200

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 +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	IEC 60794-5-10
Environmental Space	Air-blown, microduct
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	33.2 kg/km   22.309 lb/kft
--------------	----------------------------

## Included Products

CS-8F-200UM-LT	–	200 Micron Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber
----------------	---	---

## \* Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable