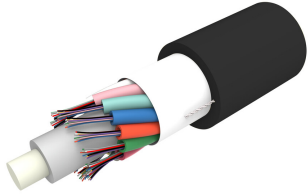# 810010450/DB | C-144-LN-8W-M12BK/14D/D

Fiber Indoor/Outdoor Cable, Low Smoke Zero Halogen, 144 fiber, Microsheath, Singlemode, G.657.A1, Gel-free, Meters jacket marking, Black jacket color, Dca flame rating

Product Classification

Regional Availability	Asia	Australia/New Zealand	EMEA
Portfolio	CommScope®
Product Type	Fiber indoor/outdoor cable
Product Series	C-LN

General Specifications

Cable Type	Stranded microsheath tube
Subunit Type	Gel-free
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB F.O. CABLE 760256859 144x9/125 ITU-T G.657A1 EN50575 CLASS D ULSZH (serial number) (metre mark)
Fibers per Subunit, quantity	12
Total Fiber Count	144

Dimensions

Cable Length	2000 m	6,561.68 ft
Diameter Over Jacket	8.6 mm	0.339 in

Mechanical Specifications

Minimum Bend Radius, loaded	100 mm	3.937 in
Minimum Bend Radius, unloaded	55 mm	2.165 in
Tensile Load, long term, maximum	200 N	44.962 lbf
Tensile Load, short term, maximum	700 N	157.366 lbf
Cable Crush Resistance, maximum	10 N/mm	57.101 lb/in
Compression Test Method	IEC 60794-1-21 E3

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Impact	2 N-m	17.701 in lb
Impact Test Method	IEC 60794-1-21 E4
Strain Test Method	IEC 60794-1-21 E1

Optical Specifications

Fiber Type	G.657.A1

Optical Specifications, Wavelength Specific

Attenuation, maximum	0.25 dB/km @ 1,550 nm	0.27 dB/km @ 1,490 nm	0.27 dB/km @ 1,625 nm	0.36 dB/km @ 1,310 nm
Standards Compliance	TIA-492CAAB (OS2)

Environmental Specifications

Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Universal Low Smoke Zero Halogen (ULSZH)
Water Penetration Test Method	IEC 60794-1 F4

Environmental Test Specifications

Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1-22 F1

Packaging and Weights

Cable weight	73 kg/km	49.054 lb/kft

Included Products

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

* Footnotes

Operating Temperature   Specification applicable to non-terminated bulk fiber cable

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