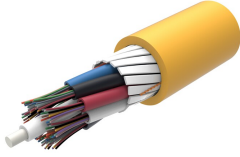# 8-1594995-6 | L-048-LN-8F-M12YL/14D/AY/D

Fiber indoor cable, Single Jacket All-Dielectric, Gel-Free, Stranded Microsheath Tube cable, 48 fiber, Singlemode G.657.A1, Yellow jacket color, Dca flame rating. Provides Rodent Resistance

Product Classification

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

General Specifications

Cable Type	Stranded microsheath tube
Construction Type	Non-armored
Subunit Type	Gel-free
Filler, quantity	2
Jacket Color	Yellow
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB OPTICAL CABLE 8-1594995-6 48XG657A1 LSZH [Serial NUMBER] [METRE MARK]
Subunit, quantity	4
Fibers per Subunit, quantity	12
Total Fiber Count	48

Dimensions

Buffer Tube/Subunit Diameter	1.4 mm	0.055 in
Diameter Over Jacket	8.5 mm	0.335 in

Representative Image

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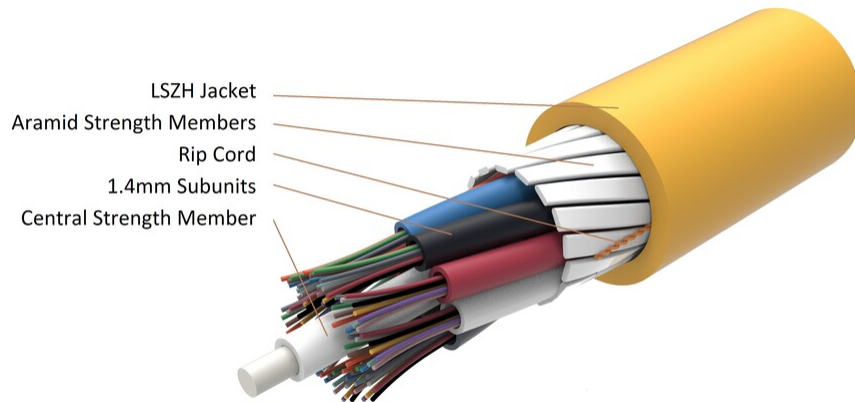
Material Specifications

Inner Jacket Material	Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

Minimum Bend Radius, loaded	102 mm	4.016 in
Minimum Bend Radius, unloaded	170 mm	6.693 in
Tensile Load, long term, maximum	700 N	157.366 lbf
Tensile Load, short term, maximum	1300 N	292.252 lbf
Compression	10 N/mm	57.101 lb/in
Compression Test Method	FOTP-41	IEC 60794-1 E3
Impact	2 N-m	17.701 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	3 cycles
Twist Test Method	IEC 60794-1-21 E7

Optical Specifications

Fiber Type	G.657.A1, TeraSPEED®

Optical Specifications, Wavelength Specific

Attenuation, maximum	0.25 dB/km @ 1,550 nm	0.27 dB/km @ 1,490 nm	0.27 dB/km @

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1,625 nm | 0.36 dB/km @ 1,310 nm

Environmental Specifications

Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-20 °C to +70 °C (-4 °F to +158 °F)
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Cable Qualification Standards	IEC 60794-1-2
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s1
EN50575 CPR Cable EuroClass Droplets Rating	d1
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)

Environmental Test Specifications

Cable Freeze	-2 °C	28.4 °F
Cable Freeze Test Method	FOTP-98	IEC 60794-1 F15
Temperature Cycle	-20 °C to +70 °C (-4 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3	IEC 60794-1 F1

Packaging and Weights

Cable weight	67 kg/km	45.022 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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