810010179/DB | L-048-LN-8W-M12YL/15D/B
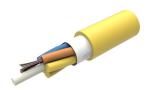
Single Jacket All-Dielectric, Gel-Free, Indoor Stranded Microsheath Tube Cable

Product Classification

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

General Specifications

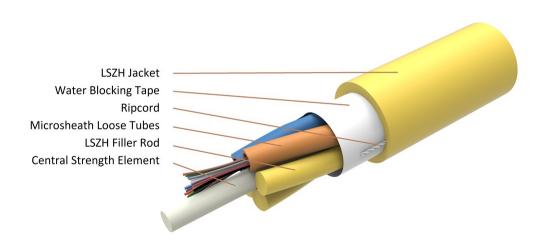|	
Cable Type	Stranded microsheath tube
Construction Type	Non-armored
Subunit Type	Gel-free
Filler, quantity	1
Jacket Color	Yellow
Jacket Marking	Custom printing
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB OPTICAL CABLE 810010178/DB 24 X G657A1 EN50575 CLASS C ULSZH [Serial number] [metre mark]
Subunit, quantity	4
Fibers per Subunit, quantity	12
Total Fiber Count	48

Dimensions

Buffer Tube/Subunit Diameter	1.5 mm	0.059 in
Diameter Over Jacket	6.7 mm	0.264 in

Representative Image

COMMSCOPE®

LSZH Jacket
Water Blocking Tape
Ripcord
Microsheath Loose Tubes
LSZH Filler Rod
Central Strength Element

Material Specifications

Inner Jacket Material   Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

Minimum Bend Radius, unloaded   80 mm | 3.15 in

Tensile Load, long term, maximum   150 N | 33.721 lbf

Tensile Load, short term, maximum   550 N | 123.645 lbf

Compression   10 N/mm | 57.101 lb/in

Compression Test Method   IEC 60794-1 E3

Impact   2 N-m | 17.701 in lb

Impact Test Method   IEC 60794-1 E4

Strain   See long and short term tensile loads

Strain Test Method   IEC 60794-1 E1

Twist   5 cycles

Twist Test Method   IEC 60794-1 E7

Optical Specifications

Fiber Type   G.657.A1, TeraSPEED®

Environmental Specifications

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810010179/DB | L-048-LN-8W-M12YL/15D/B

Installation temperature	0 °C to +50 °C (+32 °F to +122 °F)
Operating Temperature	-10 °C to +60 °C (+14 °F to +140 °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	B2ca
EN50575 CPR Cable EuroClass Smoke Rating	s1a
EN50575 CPR Cable EuroClass Droplets Rating	d0
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Low Smoke Zero Halogen (LSZH)

Environmental Test Specifications

Temperature Cycle	-10 °C to +60 °C (+14 °F to +140 °F)
Temperature Cycle Test Method	IEC 60794-1 F1

Packaging and Weights

Cable weight	46.5 kg/km	31.247 lb/kft

Regulatory Compliance/Certifications

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

Included Products

CS-8W-LT	–	TeraSPEED® G652D/G657A1 Singlemode Fiber

* Footnotes

Operating Temperature   Specification applicable to non-terminated bulk fiber cable

COMMSCOPE®