810010182/DB | L-144-LN-8W-M12YL/15D/B



Single Jacket All-Dielectric, Gel-Free, Indoor Stranded Microsheath Tube Cable

Product Classification

Representative Image

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
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	12
Fibers per Subunit, quantity	12
Total Fiber Count	144
Dimensions	
Buffer Tube/Subunit Diameter	1.5 mm 0.059 in
Diameter Over Jacket	10.7 mm 0.421 in
5	

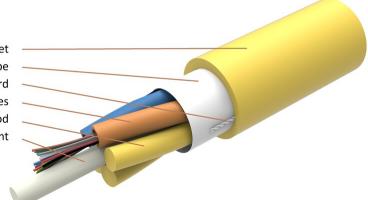
Page 1 of 3

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 21, 2025



810010182/DB | L-144-LN-8W-M12YL/15D/B

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



Material Specifications

Inner Jacket Material

Mechanical Specifications

Low Smoke Zero Halogen (LSZH)

Minimum Bend Radius, unloaded	120 mm 4.724 in
Tensile Load, long term, maximum	150 N 33.721 lbf
Tensile Load, short term, maximum	1200 N 269.771 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.652.D and G.657.A1

Environmental Specifications

Page 2 of 3

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 21, 2025

COMMSCOPE°

810010182/DB | L-144-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 Stand	lards	IEC 60794-1-2
EN50575 CPR Cable Euro	Class Fire Performance	B2ca
EN50575 CPR Cable EuroClass Smoke Rating		sla
EN50575 CPR Cable EuroClass Droplets Rating		d0
EN50575 CPR Cable EuroClass Acidity Rating		al
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		118 kg/km 79.292 lb/kft
Regulatory Compliance/Certifications		
Agency	Classification	
CHINA-ROHS	Below maximum concentration value	
ROHS	Compliant	

UK-ROHS



Included Products

CS-8W-250-EMEA - LightScope® ZWP Singlemode Fiber 8W-250um

Compliant

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable

Page 3 of 3

©2025 CommScope, Inc. All rights reserved. CommScope and the CommScope logo are registered trademarks of CommScope and/or its affiliates in the U.S. and other countries. For additional trademark information see https://www.commscope.com/trademarks. All product names, trademarks and registered trademarks are property of their respective owners. Revised: May 21, 2025

