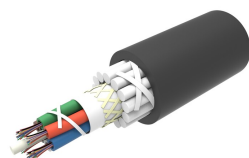# 760254755 | C-144-LA-8W-M12BK/25G/GRP/D

Indoor/Outdoor Low Smoke Zero Halogen, TeraSPEED® GRP Armoured, Stranded Loose Tube Fiber Optic Cable, 144-fiber, Singlemode OS2, Gel-filled, black. Provides Rodent Resistance.

- GRP armor is strong yet flexible, providing additional crush and rodent protection

Product Classification

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

General Specifications

Armor Type	Non-metallic rods
Cable Type	Stranded loose tube
Construction Type	Armored
Subunit Type	Gel-filled
Jacket Color	Black
Jacket Marking	Meters
Jacket Marking Method	Inkjet
Jacket Marking Text	COMMSCOPE GB OPTICAL CABLE 760254755 144x9/125 OS2 EN50575 CLASS D ULSZH [Serial NUMBER] [METRE MARK]
Subunit, quantity	12
Fibers per Subunit, quantity	12
Total Fiber Count	144

Dimensions

Buffer Tube/Subunit Diameter	2.5 mm	0.098 in
Diameter Over Jacket	21.7 mm	0.854 in

Representative Image

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LSZH Rodent Resistant Outer Jacket
GRP Armouring
Binder
Mylar Tape
Gel-Filled Tube
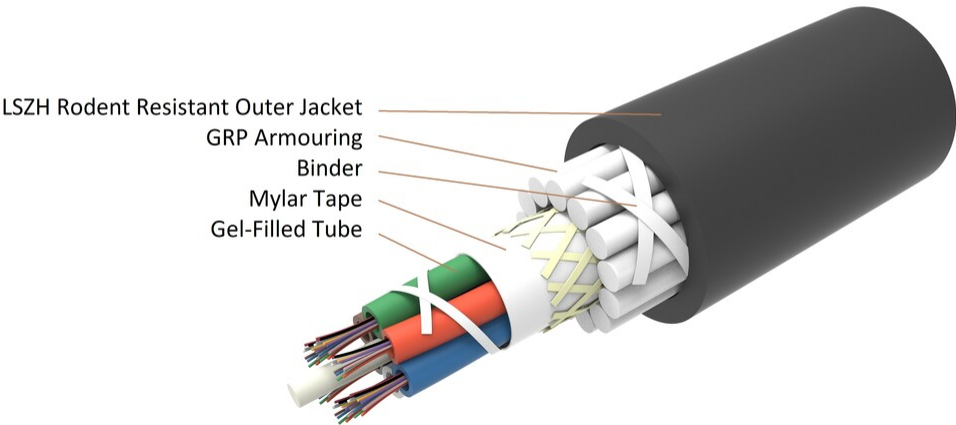
Material Specifications

Inner Jacket Material   Low Smoke Zero Halogen (LSZH)

Mechanical Specifications

Minimum Bend Radius, loaded   432 mm | 17.008 in

Minimum Bend Radius, unloaded   324 mm | 12.756 in

Tensile Load, short term, maximum   6000 N | 1,348.854 lbf

Compression   50 N/mm | 285.507 lb/in

Compression Test Method   IEC 60794-1 E3

Impact   20 N-m | 177.015 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   10 cycles

Twist Test Method   IEC 60794-1 E7

Optical Specifications

Fiber Type   G.652.D and G.657.A1, TeraSPEED® | OS2

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Environmental Specifications

Installation temperature	-40 °C to +70 °C (-40 °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 60794-1-2
EN50575 CPR Cable EuroClass Fire Performance	Dca
EN50575 CPR Cable EuroClass Smoke Rating	s1
EN50575 CPR Cable EuroClass Droplets Rating	d2
EN50575 CPR Cable EuroClass Acidity Rating	a1
Environmental Space	Aerial, lashed | Low Smoke Zero Halogen (LSZH)
Flame Test Method	IEC 60332-1-2
Jacket UV Resistance	UV stabilized
Water Penetration	24 h
Water Penetration Test Method	IEC 60794-1 F5

Environmental Test Specifications

Heat Age	0 °C to +85 °C (+32 °F to +185 °F)
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	IEC 60794-1 F1

Packaging and Weights

Cable weight	452 kg/km | 303.73 lb/kft

Regulatory Compliance/Certifications

Agency	Classification
CHINA-ROHS	Below maximum concentration value
REACH-SVHC	Compliant as per SVHC revision on www.commscope.com/ProductCompliance
ROHS	Compliant
UK-ROHS	Compliant

Included Products

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

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* Footnotes

Operating Temperature   Specification applicable to non-terminated bulk fiber cable

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