



Fiber Indoor/Outdoor cable, TeraSPEED® Low Smoke Zero Halogen Riser Distribution, 48 fiber multi-unit with 12 fiber subunits, Gel-free, Singlemode G.652.D and G.657.A1, Feet jacket marking, Black jacket color, Cca flame rating

Product Classification

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

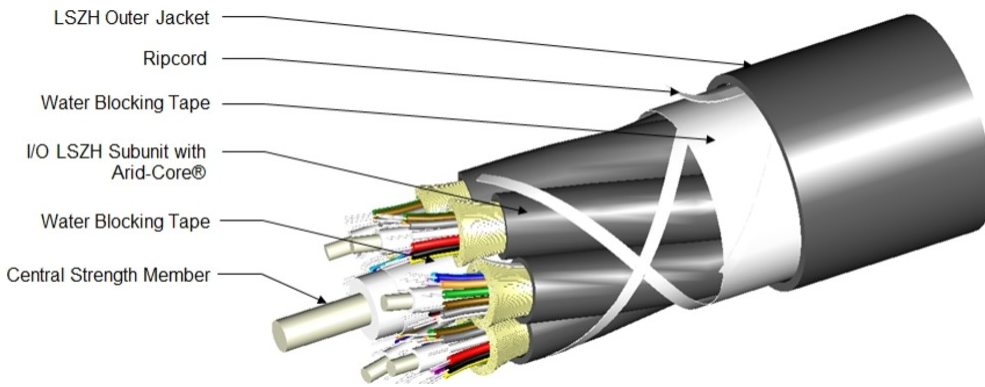
General Specifications

Cable Type	Distribution
Construction Type	Non-armored
Subunit Type	Gel-free
Jacket Color	Black
Jacket Marking	Feet
Subunit, quantity	4
Fibers per Subunit, quantity	12
Total Fiber Count	48

Dimensions

Buffer Tube/Subunit Diameter	7.2 mm 0.283 in
Diameter Over Jacket	19.5 mm 0.768 in

Representative Image



Mechanical Specifications

Minimum Bend Radius, loaded	292 mm 11.496 in
Minimum Bend Radius, unloaded	195 mm 7.677 in
Tensile Load, long term, maximum	1068 N 240.096 lbf
Tensile Load, short term, maximum	3560 N 800.32 lbf
Compression	22 N/mm 125.623 lb/in
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	100 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	5.88 N-m 52.042 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	10 cycles
Twist Test Method	FOTP-85 IEC 60794-1 E7
Vertical Rise, maximum	354 m 1,161.417 ft

Optical Specifications

Fiber Type	G.652.D and G.657.A1, TeraSPEED®
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Environmental Specifications

Installation temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Storage Temperature	-40 °C to +75 °C (-40 °F to +167 °F)

760090309 | Z-048-DS-8W-FMUBK/C

Cable Qualification Standards

ANSI/ICEA S-104-696 | EN 187105 | Telcordia GR-20 (water penetration) | Telcordia GR-409

EN50575 CPR Cable EuroClass Fire Performance

Cca

EN50575 CPR Cable EuroClass Smoke Rating

s1b

EN50575 CPR Cable EuroClass Droplets Rating

d1

EN50575 CPR Cable EuroClass Acidity Rating

a2

Environmental Space

Low Smoke Zero Halogen (LSZH) | Riser

Flame Test Listing

NEC OFNR-ST1 (ETL) and c(ETL)

Flame Test Method

IEC 60332-3 | IEC 60754-2 | IEC 61034-2 | UL 1666 | UL 1685

Jacket UV Resistance

UV stabilized

Water Penetration

24 h

Water Penetration Test Method

FOTP-82 | IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze Test Method

IEC 60794-1 F15

Heat Age

-40 °C to +85 °C (-40 °F to +185 °F)

Heat Age Test Method

IEC 60794-1 F9

Low High Bend

-40 °C to +70 °C (-40 °F to +158 °F)

Low High Bend Test Method

FOTP-37 | IEC 60794-1 E11

Temperature Cycle

-40 °C to +70 °C (-40 °F to +158 °F)

Temperature Cycle Test Method

FOTP-3 | IEC 60794-1 F1

Packaging and Weights

Cable weight

307 kg/km | 206.294 lb/kft

Regulatory Compliance/Certifications

Agency

Classification

CENELEC

EN 50575 compliant, Declaration of Performance (DoP) available

CHINA-ROHS

Below maximum concentration value

ISO 9001:2015

Designed, manufactured and/or distributed under this quality management system

REACH-SVHC

Compliant as per SVHC revision on www.commscope.com/ProductCompliance

ROHS

Compliant

UK-ROHS

Compliant



Included Products

CS-8W-TB - TeraSPEED® Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable