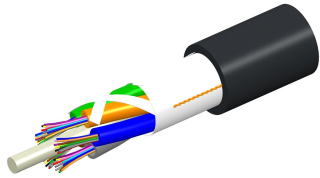


760154823 | Z-144-LN-8W-F12BK/25D

TeraSPEED® Indoor/Outdoor, Single Jacket All-Dielectric, Low Smoke Zero Halogen (LSZH), Gel-Free, Stranded Loose Tube Cable



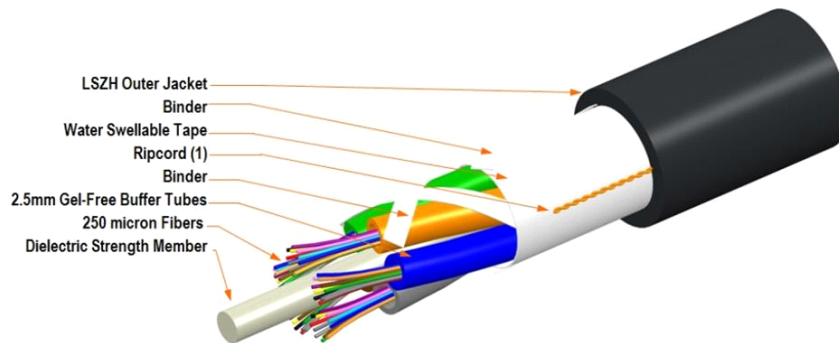
Product Classification

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

Standards And Qualifications

EN50575 CPR Cable EuroClass	Eca
Cable Qualification Standards	ANSI/ICEA S-104-696 EN 187105 Telcordia GR-20 Telcordia GR-409

Representative Image



General Specifications

Construction Type	Non-armored
Cable Type	Stranded loose tube
Subunit Type	Gel-free

Construction Materials

Total Fiber Count	144
Fiber Type	TeraSPEED®, zero water peak singlemode fiber (G.652.D, G.657.A1 OS2)
Fiber Type Solution	TeraSPEED®, zero water peak singlemode fiber (G.652.D, G.657.A1 OS2)
Fiber Type, quantity	144
Fibers per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

760154823 | Z-144IN-8WF12BK/25D

Dimensions

Buffer Tube/Subunit Diameter	2.50 mm 0.10 in
Cable Weight	272.0 kg/km 183.0 lb/kft
Diameter Over Jacket	17.30 mm 0.68 in
Subunit, quantity	12

Physical Specifications

Minimum Bend Radius, loaded	25.9 cm 10.2 in
Minimum Bend Radius, unloaded	17.3 cm 6.8 in
Tensile Load, long term, maximum	180 lbf 800 N
Tensile Load, short term, maximum	2700 N 607 lbf
Vertical Rise, maximum	300.0 m 985.0 ft

Flame Test Specifications

Flame Test Listing	NEC OFN-LS (ETL) and c(ETL)
Flame Test Method	CSA FT4 IEC 60332-3 IEC 60754-2 IEC 61034-2 IEEE 1202 IEEE 383 NES 713 UL 1685

Environmental Specifications

Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH)
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)

Mechanical Test Specifications

Compression	125 lb/in 22 N/mm
Compression Test Method	FOTP-41 IEC 60794-1 E3
Flex	35 cycles
Flex Test Method	FOTP-104 IEC 60794-1 E6
Impact	2.21 ft lb 3.00 N-m
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
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1 F5

Environmental Test Specifications

Cable Freeze	-2 °C 28 °F
Cable Freeze Test Method	FOTP-98 IEC 60794-1 F15
Drip	70 °C 158 °F
Drip Test Method	FOTP-81 IEC 60794-1 E14
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)

760154823 | Z-144IN-8W-F12BK/25D

Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °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

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system
CENELEC	EN 50575 compliant, Declaration of Performance (DoP) available



Included Products

CS-8W-IOLT (Product Component—not orderable) — TeraSPEED® OS2 Singlemode Fiber

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable