

760100768 | Z-144-LN-8W-F12BK/20G/HTS

TeraSPEED® Indoor/Outdoor High Tensile Strength Riser Rated Low Smoke Zero Halogen (LSZH) Mini All-Dielectric Single Jacket, Gel-Filled, Stranded Loose Tube, Arid Core® Cable

- Additional layer of e-glass for enhanced rodent resistance

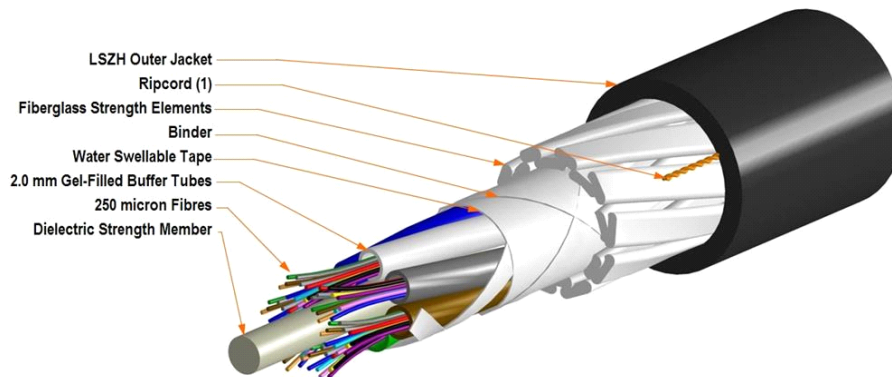
Product Classification

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

Standards And Qualifications

EN50575 CPR Cable EuroClass Dca | s2 | d1 | a1

Representative Image



General Specifications

Construction Type	Non-armored
Cable Type	Stranded loose tube
Fiber Short Description	Z-144-LN-XY-F12BK/20G/HTS
Subunit Type	Gel-filled

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

Dimensions

760100768 | Z-144IN-8WF12BK/20G/HTS

Buffer Tube/Subunit Diameter	2.00 mm 0.08 in
Cable Weight	259.0 kg/km 174.0 lb/kft
Diameter Over Jacket	15.70 mm 0.62 in
Subunit, quantity	12

Physical Specifications

Minimum Bend Radius, loaded	24.3 cm 9.6 in
Minimum Bend Radius, unloaded	16.2 cm 6.4 in
Tensile Load, long term, maximum	300 lbf 1334 N
Tensile Load, short term, maximum	4448 N 1000 lbf
Vertical Rise, maximum	514.0 m 1686.4 ft

Flame Test Specifications

Flame Test Listing	NEC OFNR-LS (ETL) and c(ETL)
Flame Test Method	IEC 60332-3 IEC 60754-2 IEC 61034-2 IEEE 383 UL 1666 UL 1685

Environmental Specifications

Environmental Space	Aerial, lashed Buried Low Smoke Zero Halogen (LSZH) Riser
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	3.80 ft lb 5.15 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)
Heat Age Test Method	IEC 60794-1 F9
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)

760100768 | Z-144IN-8WF12BK/20G/HTS

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

Qualification Specifications

Cable Qualification Standards ANSI/ICEA S-104-696 | EN 187105 | Telcordia GR-409

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



Included Products

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

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable