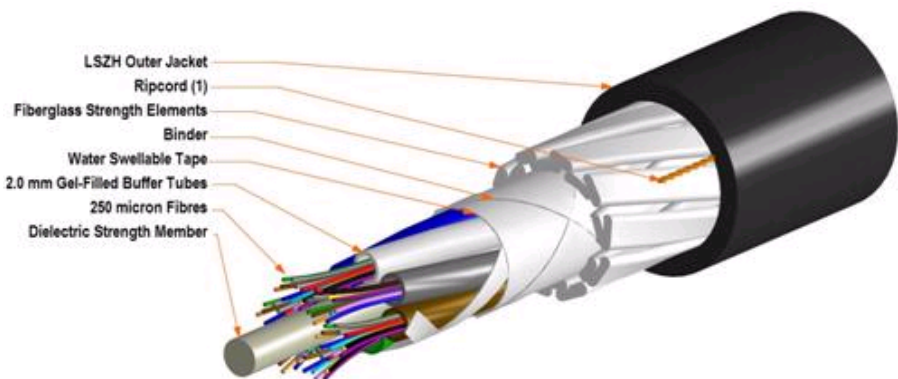


760152009 | Z-144-LN-5K-
F12BK/20G/HTS

Indoor/Outdoor High Tensile Strength Low Smoke Zero Halogen Single Jacket All-Dielectric Riser Rated Stranded Loose Tube Arid Core® Cable

- Additional layer of e-glass for enhanced rodent resistance

Representative Image



General Specifications

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

Construction Materials

Fiber Type Solution	LazrSPEED® 550, 50 µm multimode fiber
Total Fiber Quantity	144
Fiber Type	LazrSPEED® 550, 50 µm multimode fiber
Fiber Type, quantity	144
Fibers Per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

Dimensions

Buffer Tube/Subunit Diameter	2.00 mm 0.08 in
Cable Weight	178.0 lb/kft 265.0 kg/km
Diameter Over Jacket	16.20 mm 0.64 in
Subunit, quantity	12

Physical Specifications

Minimum Bend Radius, loaded	24.3 cm 9.6 in
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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 +70 °C (-22 °F to +158 °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 60794-1-2, Section 7
Flex	35 cycles
Flex Test Method	FOTP-24 IEC 60794-1-2, Section 10
Impact	3.80 ft lb 5.15 N-m
Impact Test Method	FOTP-25 IEC 60794-1-2, Section 8
Strain	See long and short term tensile loads
Strain Test Method	FOTP-33 IEC 60794-1-2, Section 5
Twist	10 cycles
Twist Test Method	FOTP-85 IEC 60794-1-2, Section 11
Water Penetration	24 h
Water Penetration Test Method	FOTP-82 IEC 60794-1-2, Section 24

Environmental Test Specifications

Cable Freeze	-2 °C 28 °F
Cable Freeze Test Method	FOTP-98
Drip	70 °C 158 °F
Drip Test Method	FOTP-81 IEC 60794-1-2, Section 17
Heat Age	-40 °C to +85 °C (-40 °F to +185 °F)
Heat Age Test Method	Not applicable
Low High Bend	-30 °C to +60 °C (-22 °F to +140 °F)
Low High Bend Test Method	FOTP-28 IEC 60794-1-2, Section 28
Temperature Cycle	-40 °C to +70 °C (-40 °F to +158 °F)
Temperature Cycle Test Method	FOTP-3 IEC 60794-1-2, Section 22

Qualification Specifications

Cable Qualification Standards	ANSI/ICEA S-104-696-2001 EN 187105 Telcordia GR -409-CORE Issue 2
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Regulatory Compliance/Certifications

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



Included Products

CS-5K-LT (Product Component—not orderable) — LazrSPEED® 550 OM4 Multimode Fiber