



MDPE Outer Jacket

Steel Tape Armoring

Strength Elements

Binder

Water Swellable Tape

Ribs (2)

Binder

2.5mm Gel-Free Buffer Tubes

250 micron Fibers

Dielectric Strength Member

Cable Type	Stranded loose tube
Construction Type	Armored
Subunit Type	Gel-free

Fiber Type Solution	LazrSPEED® 550, 50 µm multimode fiber
Total Fiber Quantity	96
Armor Type	Corrugated steel
Fiber Type	LazrSPEED® 550, 50 µm multimode fiber
Fiber Type, quantity	96
Fibers Per Subunit, quantity	12
Jacket Color	Black
Jacket UV Resistance	UV stabilized

Buffer Tube/Subunit Diameter	2.50 mm		0.10 in
Cable Weight	103.0 lb/kft		154.0 kg/km
Diameter Over Jacket	13.60 mm		0.54 in
Subunit, quantity	8		

Minimum Bend Radius, loaded	20.3 cm		8.0 in
Minimum Bend Radius, unloaded	13.6 cm		5.4 in

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Tensile Load, long term, maximum 180 lbf | 800 N
Tensile Load, short term, maximum 2700 N | 607 lbf
Vertical Rise, maximum 531.0 m | 1742.1 ft

Environmental Specifications

Environmental Space	Aerial, lashed Buried
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	250 lb/in 44 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	3.25 ft lb 4.41 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
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-87-640-2006 EN 187105 Telcordia GR -20-CORE Issue 3
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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



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Included Products

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