Features and Benefits

Low-smoke, zero-halogen sheath Key life-safety benefit

Meets cyclic impact and chemical resistance test Superior performance

Common installations

Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770

Standards

Listings	National Electrical Code [®] (NEC [®]) OFNR-LS, Sunlight Resistant (SUN RES); IEEE-1202 flame test; IEC 60332-3, IEC 60754-2, IEC 61034; MSHA 30 CFR Part 7-K, Section 7.408
Design and Test Criteria	ANSI/ICEA S-104-696; UL 13; UL 444; UL 1277; UL 1666; CSA C22.2 No. 230 and No. 232; CSA OFC (FT-4-S1)

Corning Riser-LSZH[™] rated industrial rodent-resistant cables are designed for industrial building backbones and harsh environments atypical of traditional datacom systems. Based on proven stranded loose tube cable designs, these tray-rated industrial cables are flameretardant and have been tested to meet mechanical/ environmental conditions exceeding the requirements set for traditional datacom cables. When tested to specified "tray" application requirements, these cables have demonstrated superior performance levels for compressive loading, cyclic impact and chemical resistance. The 250 µm color-coded individual fibers offer quick and easy identification during installation. A key benefit of the Corning industrial cables is the lowsmoke/zero-halogen (LSZH) sheath.

Corning Riser-LSZH cables eliminate risks in the event of a fire as the LSZH compound does not drip when superheated. The material burns to ash, eliminating the onset of secondary fires. When cables containing halogens ignite, they emit highly reactive gases that can be harmful if inhaled. When halogens combine with water, acids are formed. These acids damage both living tissue and inorganic materials, such as metal and electronic equipment. The Riser rating allows for the cable to transition into a Riser rated building space without the need of a transition splice that costs time and money.





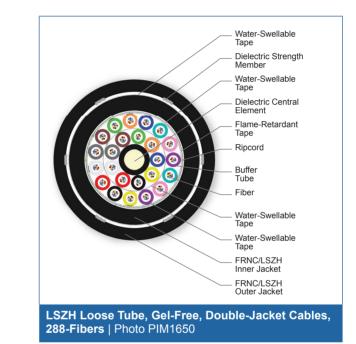
LSZH Loose Tube, Gel-Free, Double-Jacket Cables, 288-Fibers | Photo PIM0751



Family Spec Sheet 0580_NAFTA_AEN Page 1 | Revision date 2020-05-19

Note: This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/ outdoor cable jacket. Black is the standard jacket color using the part numbers shown here. Contact Customer

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Dielectric Strength Member Water-Swellable Tape Water-Swellable Tape Dielectric Central Element Flame-Retardant Таре Fiber Ripcord Buffer Tube Filling Element Water-Swellable Tape FRNC/LSZH Inner Jacket FRNC/LSZH Outer Jacket LSZH Loose Tube, Gel-Free, Double-Jacket Cables, 48-Fibers | Photo PIM1643

Specifications

Temperature Range	
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 60 °C (-22 °F to 140 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

* Note: Corning recommends storing indoor/outdoor cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.

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Mechanical Characteristics Cable					
Max. Tensile Strength, Short-Term		4500 N (1000	4500 N (1000 lbf)		
Max. Tensile Strength, Long-Term		1500 N (333	1500 N (333 lbf)		
Fiber Count	Buffer Tube Dia- meter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
12 - 72	2.5 mm	19.4 mm	264 mm	194 mm	385 kg/km
	(0.1 in)	(0.76 in)	(10.4 in)	(7.6 in)	(259 lb/1000 ft)
96	2.5 mm	22.3 mm	306 mm	223 mm	503 kg/km
	(0.1 in)	(0.87 in)	(12 in)	(8.7 in)	(338 lb/1000 ft)
144	2.5 mm	25.9 mm	360 mm	259 mm	649 kg/km
	(0.1 in)	(1.02 in)	(14.2 in)	(10.20 in)	(436 lb/1000 ft)
204 - 216	2.5 mm	25.2 mm	350 mm	252 mm	591 kg/km
	(0.1 in)	(0.99 in)	(13.8 in)	(9.9 in)	(397 lb/1000 ft)
252 - 288	2.5 mm	28.3 mm	425 mm	283 mm	606 kg/km
	(0.1 in)	(1.11 in)	(16.7 in)	(11.1 in)	(407 lb/1000 ft)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2002/95/ EG

Transmission Performance

Multimode					
Fiber Core Diameter (µm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	К	Т	Т	Т	Т
Performance Option Code	30	31	80	90	91
Wavelengths (nm)	850/1300	850/1300	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	300/550	750/500	1000/600	1100/600	1100/600
Serial 10 Gigabit Ethernet (m)	33/-	150/-	300/-	550/-	600/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	200/500	700/500	1500/500	3500/500	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	220/-	950/-	2000/-	4700/-	5350/-

* 50 µm multimode fiber (OM3/OM4/OM4+) meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE[™] systems solutions.

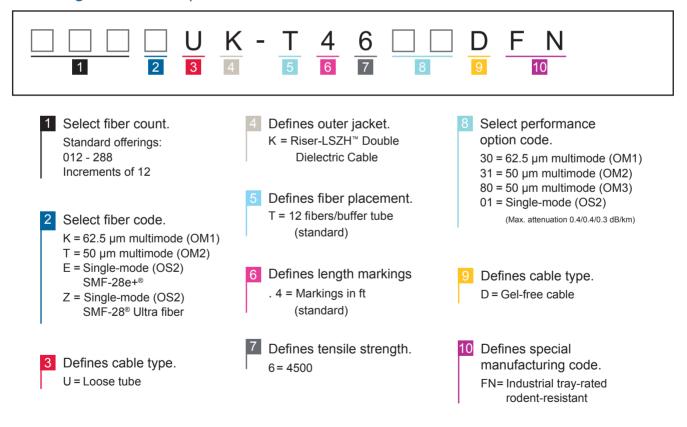
* 50 μm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.
* 50 μm multimode fiber (OM4) T91 10 Gigabit Ethernet Distance assumes 0.7 dB maximum total connector/splice loss.



Single-mode			
Fiber Name	Single-mode (OS2)	SMF-28 [®] Ultra fiber	
Fiber Category	G.652.D	G.657.A1	
Fiber Code	E	Z	
Performance Option Code	01	01	
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	
Maximum Attenuation (dB/km)	0.4/0.4/0.3	0.4/0.4/0.3	
Typical Attenuation* (dB/km)	-	0.33/0.33/0.19	

* For more information on typical attenuation please see the Corning whitepaper at http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/ LAN-1863-AEN.pdf

Ordering Information | Note: Contact Customer Care at 1-800-743-2675 for other options.







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