

Riser-LSZH™ Riser Indoor/Outdoor, Industrial Tray-Rated, Loose Tube, Gel-Free, Double-Jacket Cables, 12-288 Fibers

CORNING

Features and Benefits

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

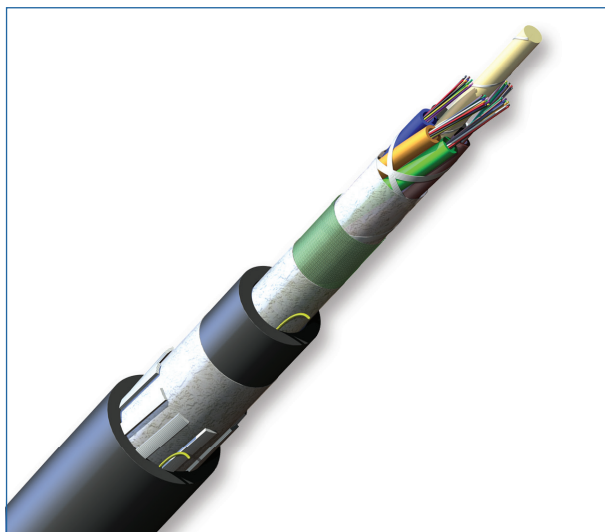
Meets cyclic impact and chemical resistance test
Superior performance

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

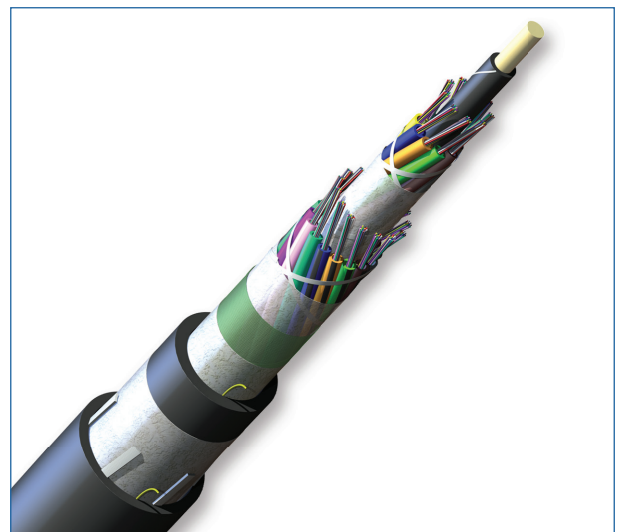
Available in MSHA versions
Mine Safety and Health Administration approved

Corning Riser-LSZH™ rated loose tube gel-free cables are flame-retardant, indoor/outdoor, suitable for installation in inter-building and intra-building applications. The loose tube design offers mechanical ruggedness and environmental durability while the all-dielectric cable construction requires no grounding or bonding. The water-swellable yarn eliminates the need for gel-filling compound and allows more efficient and craft-friendly cable preparation. The 250 µm color-coded fibers allow quick and easy identification during installation.

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 flexible, flame-retardant outer jacket is UV-resistant and enables direct exposure to sunlight. Interlocking armor is available for special applications requiring additional mechanical durability. 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.



Industrial Fiber Optic Cable, 48-Fibers
| Photo PIM0744



Industrial Fiber Optic Cable, 288-Fibers
| Photo PIM0751

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Standards

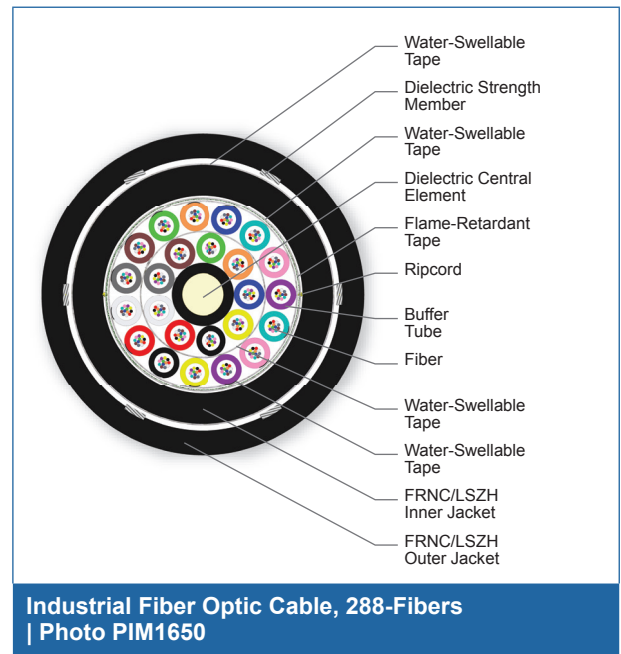
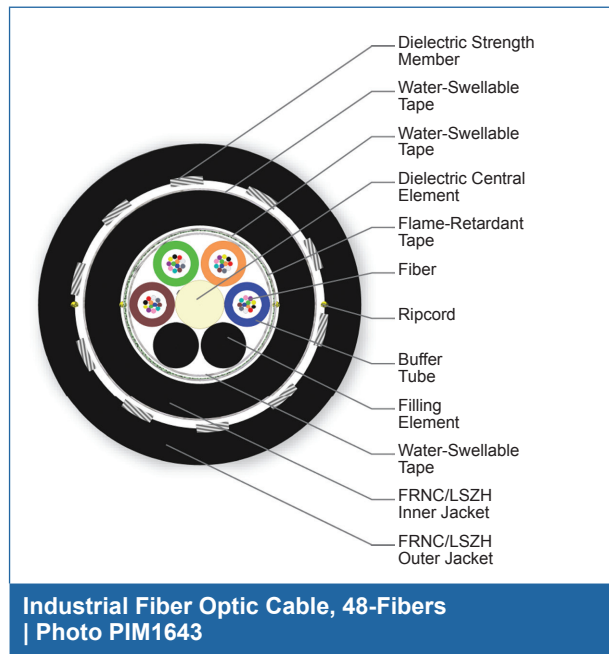
Listings

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 1277, UL 1685, UL
444, CSA C22.2, No. 230
and No. 232, CSA OFC
(FT-4-S1)

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 Care at 1-800-743-2675 to order other color options.



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Specifications

Temperature Range	
Storage	-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.

Mechanical Characteristics Cable

Max. Tensile Strength, Long-Term	337 lbf (1500 N)
Max. Tensile Strength, Short-Term	4500 N (1000 lbf)

Fiber Count	Buffer Tube Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Max. Tensile Strength, Short-Term	Min. Bend Radius Operation	Weight
12 - 72	2.5 mm (0.1 in)	17.9 mm (0.70 in)	269 mm (10.6 in)	4500 N (1000 lbf)	179 mm (7.0 in)	312 kg/km (209 lb/1000 ft)
96	2.5 mm (0.1 in)	20.8 mm (0.82 in)	312 mm (12.2 in)	4500 N (1000 lbf)	208 mm (8.2 in)	418 kg/km (281 lb/1000 ft)
144	2.5 mm (0.1 in)	24.4 mm (0.96 in)	366 mm (14.4 in)	4500 N (1000 lbf)	244 mm (9.6 in)	552 kg/km (371 lb/1000 ft)
192	2.5 mm (0.1 in)	23.3 mm (0.92 in)	350 mm (13.8 in)	4500 N (1000 lbf)	233 mm (9.2 in)	472 kg/km (317 lb/1000 ft)
216	2.5 mm (0.1 in)	23.7 mm (0.93 in)	356 mm (14.0 in)	4500 N (1000 lbf)	237 mm (9.3 in)	501 kg/km (336 lb/1000 ft)
288	2.5 mm (0.1 in)	26.8 mm (1.05 in)	402 mm (15.8 in)	4500 N (1000 lbf)	268 mm (10.5 in)	641 kg/km (430 lb/1000 ft)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Transmission Performance

Multimode					
Fiber Core Diameter (μm)	62.5	50	50	50	50
Fiber Category	OM1	OM2	OM3	OM4	OM4 Extended Distance
Fiber Code	K	T	T	T	T
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/-

* ITU-T G.652 D compliant.

* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

* Assumes 1.0 dB maximum total connector/splice loss.

* Assumes 0.7 dB maximum total connector/splice loss.

Notes: 1) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

2) Improved attenuation and bandwidth options available.

3) Bend-insensitive single-mode fibers available on request.

4) Contact a Corning Customer Care Representative for additional information.

Single-mode		
Fiber Name	Single-mode (OS2)	SMF-28® Ultra fiber
Fiber Category	G.652.D	ITU-T 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

* 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

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

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	U	K	-	T	4	6	<input type="text"/>	<input type="text"/>	D	2	N
1	2	3	4	5	6	7	8	9	10					

1 Select fiber count.
Standard offerings:
012 - 288
Increments of 12

2 Select fiber code.
K = 62.5 µm multimode (OM1)
T = 50 µm multimode (OM2)
E = Single-mode (OS2)
SMF-28e+®
Z = Single-mode (OS2)
SMF-28® ULTRA

3 Defines cable type.
U = Gel-free cable

4 Defines outer jacket.
K = Riser-LSZH™ Double
Dielectric Cable

5 Defines fiber placement.
T = 12 fibers/buffer tube
(standard)

6 Defines length markings
. 4 = Markings in ft
(standard)

7 Defines tensile strength.
6 = See Specifications

8 Select performance option code.
30 = 62.5 µm multimode (OM1)
31 = 50 µm multimode (OM2)
80 = 50 µm multimode (OM3)
01 = Single-mode (OS2)
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable type.
D = Gel-free cable

10 Defines special manufacturing code.
2N = Tray-rated industrial



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