

# LSZH™ Indoor/Outdoor, Gel-Free 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

## Standards

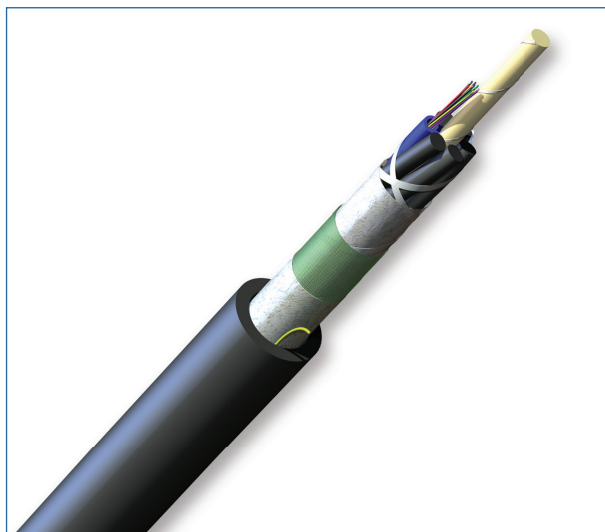
Listings	National Electrical Code® (NEC®) OFN-LS, Sunlight Resistant (SUN RES); IEEE-383/IEEE-1202 flame test; IEC 60332-3, IEC 60754-2, IEC 61034, NFPA 130
----------	---

Design and Test Criteria	ANSI/ICEA S-104-696; UL 13; UL 444; UL 1277; UL 1685; CSA C22.2 No. 230 and No. 232; CSA OFC (FT-4-S1)
--------------------------	--

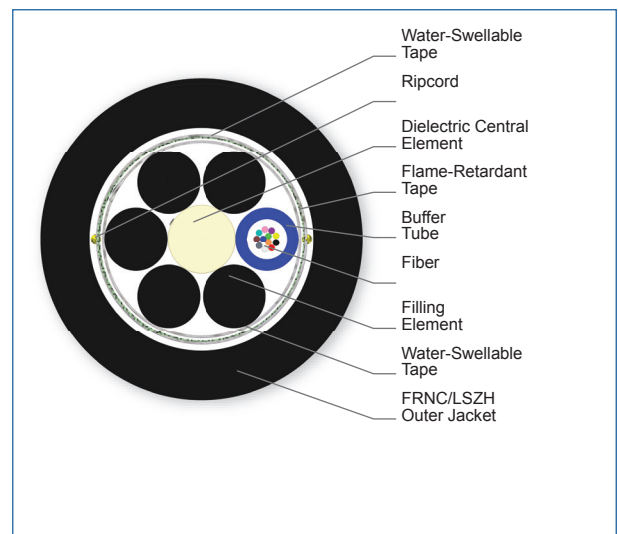
Corning LSZH™ loose tube gel-free cables are flame-retardant, indoor/outdoor, suitable for installation in inter-building and intrabuilding applications. The loose tube design offers mechanical ruggedness and environmental durability while the all-dielectric cable construction requires no grounding or bonding. The water-swellaable 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 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.

*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.*



LSZH Loose Tube, Gel-Free Cables,  
12 Fibers | Photo PIM0708

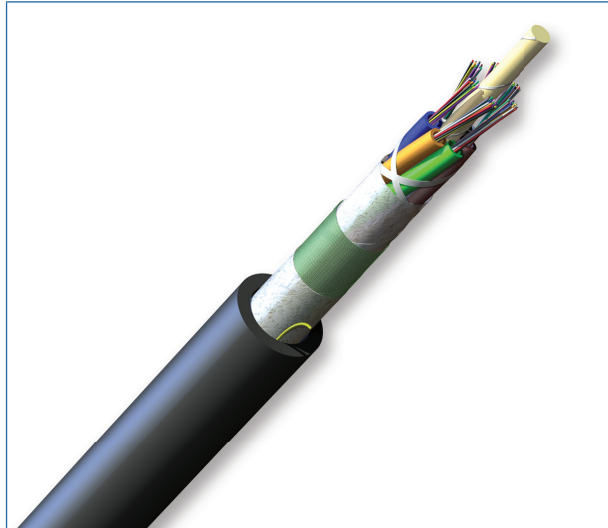


LSZH Loose Tube, Gel-Free Cables  
12 Fibers | Photo PIM160

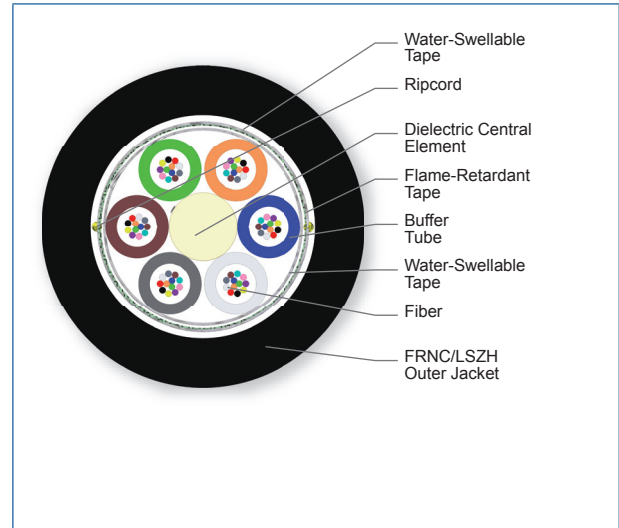
CORNING

# LSZH™ Indoor/Outdoor, Gel-Free Cables, 12-288 Fibers

CORNING



LSZH Loose Tube, Gel-Free Cables,  
72 Fibers | Photo PIM0713



LSZH Loose Tube, Gel-Free Cables,  
72 Fibers | Photo PIM1612

## 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, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	810 N (180 lbf)

Fiber Count	Buffer Tube Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
12 - 72	2.5 mm (0.1 in)	12.8 mm (0.50 in)	192 mm (7.6 in)	128 mm (5.0 in)	152 kg/km (102 lb/1000 ft)
96	2.5 mm (0.1 in)	15.7 mm (0.62 in)	235 mm (9.3 in)	157 mm (6.2 in)	231 kg/km (155 lb/1000 ft)
144	2.5 mm (0.1 in)	19.3 mm (0.76 in)	290 mm (11.4 in)	193 mm (7.6 in)	331 kg/km (222 lb/1000 ft)

CORNING

# LSZH™ Indoor/Outdoor, Gel-Free Cables, 12-288 Fibers

CORNING

Fiber Count	Buffer Tube Diameter	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
216	2.5 mm (0.1 in)	18.6 mm (0.73 in)	279 mm (11.0 in)	186 mm (7.3 in)	287 kg/km (193 lb/1000 ft)
288	2.5 mm (0.1 in)	21.7 mm (0.86 in)	326 mm (12.8 in)	217 mm (8.6 in)	401 kg/km (269 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	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) Improved attenuation and bandwidth options available.  
2) Bend-insensitive single-mode fibers available on request.  
3) 50 μm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.  
4) Contact a Corning Customer Care Representative for additional information.

CORNING

## CORNING

\* For more information on typical attenuation please see the Corning whitepaper at [http://csmmedia.corning.com/opcomm//Resource\\_Documents/whitepapers\\_rl/LAN-1863-AEN.pdf](http://csmmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf)

□ □ □ □ U Z - T 4 1 □ □ D 2 0

1 2 3 4 5 6 7 8 9 10

- Family Spec Sheet 0555\_NAFTA\_AEN  
Page 4 | Revision date 2020-09-29

CORNING

# LSZH™ Indoor/Outdoor, Gel-Free Cables, 12-288 Fibers

The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

CORNING

## *Notes*



**Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 United States  
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)**

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks).  
All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.  
© 2020 Corning Optical Communications. All rights reserved.

The Corning logo consists of the word "CORNING" in a large, black, uppercase, serif font.