

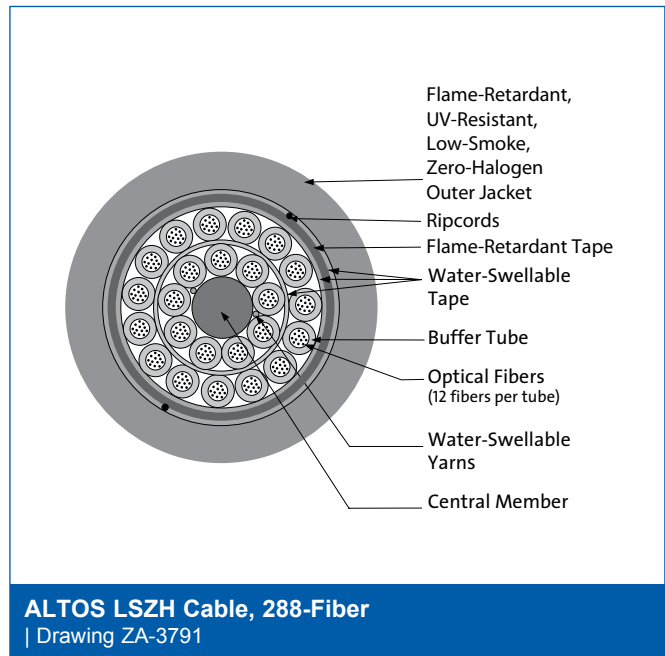
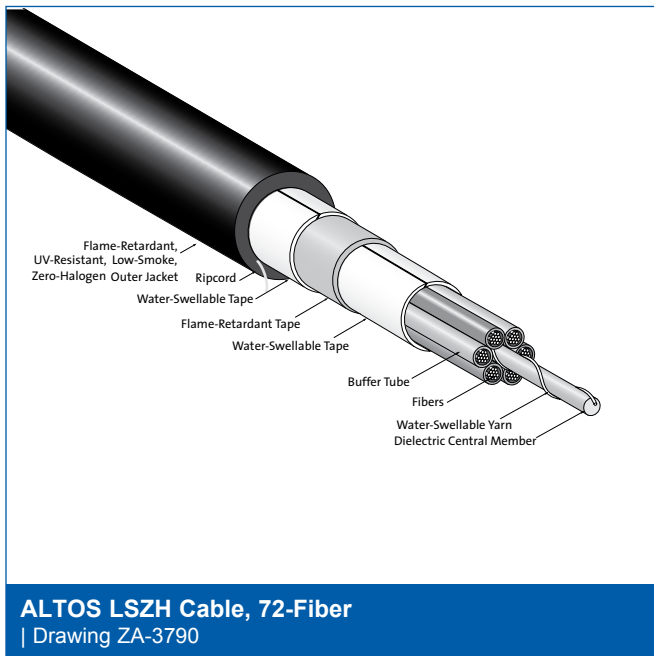
# ALTOS® LSZH™ Loose Tube Cables

A LANscape®  
Solutions Product

## features and benefits |

<b>Low-smoke/zero-halogen (LSZH) sheath</b>	Key life-safety benefit
<b>Compact indoor/outdoor loose tube design</b>	Provides high fiber density
<b>Listed OFN-LS and CSA OFN FT4-ST1</b>	Meets burn test criteria
<b>Available with interlocking armor</b>	Provides additional mechanical protection

Corning Cable Systems ALTOS® LSZH™ Cables are designed for indoor and outdoor use. The loose tube cable construction, pioneered by Corning Cable Systems, places fiber in buffer tubes and provides stable and highly reliable transmission parameters for a wide variety of voice, video and imaging applications. The design also provides high fiber density within a given cable diameter while allowing flexibility to suit many system designs. The outer jacket uses a flame-retardant non-halogenated material with UV- and chemical-resistance and low-flame spread.



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## specifications |

<b>Maximum Tensile Loads</b>	Short-Term: 2700 N (600 lbf) Long-Term: 810 N (180 lbf)
<b>Temperatures</b>	Storage: -40° to +70°C (-40° to +158°F) Installation: -10° to +60°C (+14° to +140°F) Operation: -40° to +70°C (-40° to +158°F)
<b>Approvals and Listings</b>	National Electrical Code® (NEC®) OFN-LS; CSA OFN FT4-ST1; IEEE 383 Flame Test
<b>Common Installations</b>	Outdoor aerial and duct; indoor general purpose horizontal according to NEC Article 770
<b>Design and Test Criteria</b>	ANSI/ICEA S-104-696

Corning Cable Systems 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.

Fiber Count	Maximum Fibers per Tube	Number of Tube Positions	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius	
					Loaded cm (in)	Installed cm (in)
≤ 72	12	6	145 (97)	12.5 (0.49)	18.8 (7.4)	12.5 (4.9)
96	12	8	220 (148)	15.3 (0.60)	23.0 (9.0)	15.3 (6.0)
144	12	12	315 (212)	18.9 (0.74)	28.4 (11.2)	18.9 (7.4)
216	12	18	265 (178)	18.3 (0.72)	27.5 (10.8)	18.3 (7.2)
288	12	24	370 (249)	21.3 (0.84)	32.0 (12.6)	21.3 (8.4)

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## transmission performance |

	LANscape® 62.5 Solutions	LANscape Pretium® 150 Solutions	LANscape Pretium 300 Solutions	LANscape Pretium 550 Solutions	LANscape Pretium 600 Solutions	Single-Mode
Fiber Code	K	T	T	T	T	E
Performance Option Code	30	31	80	90	91	01
Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode*
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3 <sup>†</sup>	OM4 <sup>†</sup>	OM4 <sup>†</sup>	OS2
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.4/0.3
Minimum Over Filled 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/ -	- / - / -
Serial 1 Gigabit Ethernet Distance (m)	300/550	750/600	1000/600	1100/600	1100/600	5000/ - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	150/ -	300/ -	550 <sup>‡</sup> / -	600 <sup>§</sup> / -	10000/ - /40000

\* ITU 652.D compliant.

<sup>†</sup> Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™ Systems solutions.

<sup>‡</sup> Assumes 1.0 dB maximum total connector/splice loss.

<sup>§</sup> 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) Contact a Corning Cable Systems Customer Service Representative for additional information.

4) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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ordering information | Contact Customer Service for availability of non-standard offerings.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	Z	-	T	4	1	<input type="checkbox"/>	<input type="checkbox"/>	D	2	0
1	2	3	4	5	6		7	8	9	10	11	12	13	14

## |1-3

Select fiber count.

Standard offerings:

012	096
024	144
036	216
048	288
072	

## |4

Select fiber code  
(see Transmission  
Performance table).

## |5 / 12

Defines cable type.  
U / D = ALTOS® LSZH™  
Gel-Free Loose  
Tube Cable

## |6

Defines outer jacket.  
Z = Indoor/outdoor LSZH  
single jacket

## |7

Defines fiber placement.  
T = Standard for loose tube

## |8

Defines length  
markings.  
4 = Markings in feet  
(standard)

## |9

Defines tensile strength  
(see Specifications).

## |10-11

Select performance  
option code (see  
Transmission  
Performance table).

## |13-14

Defines special  
requirements.  
20 = Standard

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