

FREEDM[®] LST[™] Cables

A LANscape[®]
Solutions Product

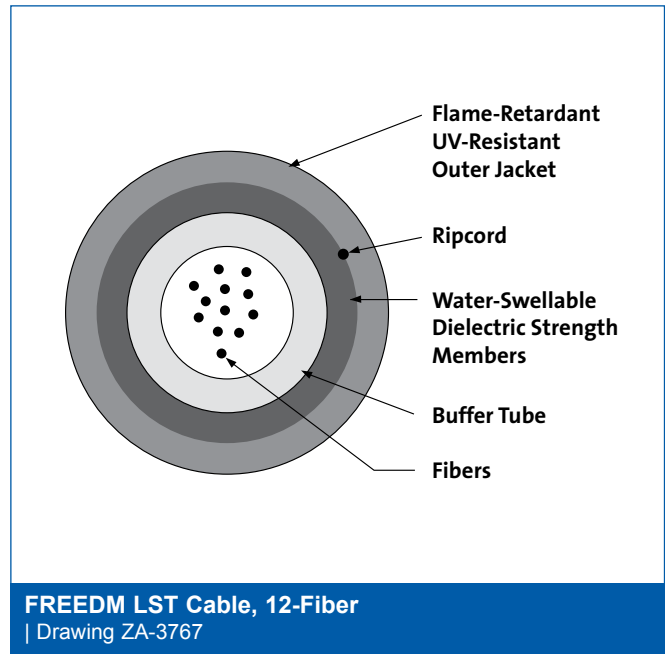
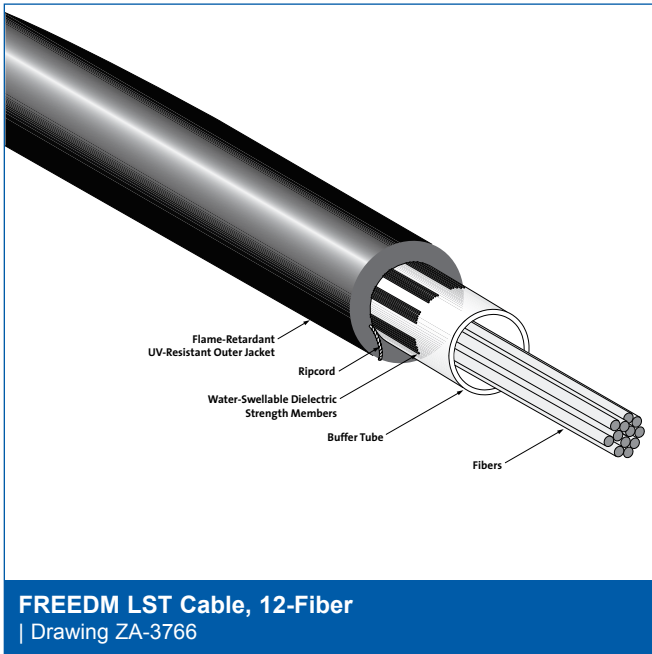
features and benefits |

Riser rating	No transition splices when entering buildings
Gel-free waterblocking technology	Craft-friendly cable preparation
Color-coded tubes and fibers	Quick and easy identification
All-dielectric cable construction	Requires no grounding or bonding
UV-resistant, flame-retardant jacket	Durable and easy to strip

Corning Cable Systems FREEDM[®] LST[™] Cables are flame-retardant, indoor/outdoor, riser-rated cables designed for interbuilding and intrabuilding backbones in aerial, duct and riser applications. With a riser rating, there is no need for a transition splice when entering the building. Available in a compact design in fiber counts from 2 to 24 fibers, these cables are protected against water penetration by innovative waterblocking materials that swell to absorb water. Waterblocking without the use of messy gels provides more efficient and craft-friendly cable preparation, allows easier cable access and simplifies the use of buffer tube fan-out kits.

Buffer tubes and fibers in each tube are color-coded for quick, easy identification. The SZ-stranded, loose tube design isolates fibers from installation and environmental rigors and allows for easy midspan access.

(continued)

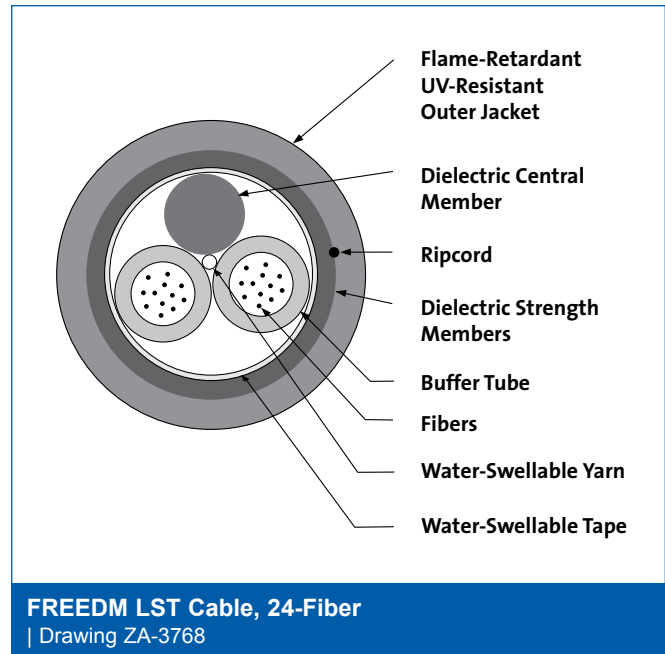


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Available in 50 µm, 62.5 µm, single-mode and hybrid versions, the cable design is also NEC® (National Electrical Code®) listed (OFNR and FT-4).

The all-dielectric cable construction requires no grounding or bonding and the UV-resistant, flame-retardant jacket is rugged, durable and easy to strip. This cable is also available with interlocking armor for special applications requiring additional mechanical durability and with Gigabit Ethernet and 10 Gigabit Ethernet.



specifications |

Temperatures	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)

Approvals and Listings National Electrical Code® (NEC®) OFNR, CSA OFN FT-4

Common Installations Outdoor aerial and duct; indoor vertical riser and general purpose horizontal according to NEC Article 770

Design and Test Criteria 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.

Buffer tube color may vary for single tube designs containing less than or equal to 12 fibers.

Fiber Count	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Maximum Tensile Load		Minimum Bend Radius	
			Short-Term N (lbf)	Long-Term N (lbf)	Loaded cm (in)	Installed cm (in)
2-12	56 (38)	7.4 (0.29)	1350 (300)	400 (90)	11.1 (4.4)	3.7 (1.5)
13-24	78 (53)	9.7 (0.38)	2700 (600)	810 (180)	14.6 (5.7)	9.7 (3.8)

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†	OM4†	OM4†	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‡/ -	600§/ -	10000/ - /40000

* ITU 652.D compliant.

† Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™ 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) 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 at 800-743-2671 for other options.

□	□	□	□	S	F	-	T	4	1	□	□	D	2	0
1	2	3	4	5	6		7	8	9	10	11	12	13	14

|1-3
Select fiber count.
Standard offerings:
002 006 018
004 012 024

|5 / 12
Defines cable type.
S / D = FREEDM® LST™
Gel-Free Cable

|8
Defines length markings.
4 = Markings in feet (standard)

|10-11
Select performance option code (see Transmission Performance table).

|4
Select fiber code (see Transmission Performance table).

|6
Defines outer jacket.
F = Indoor/outdoor riser

|9
Defines tensile strength (see Specifications).

|13-14
Defines special requirements.
20 = No special requirements

|7
Defines fiber placement.
T = 12 fibers/buffer tube (standard)

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