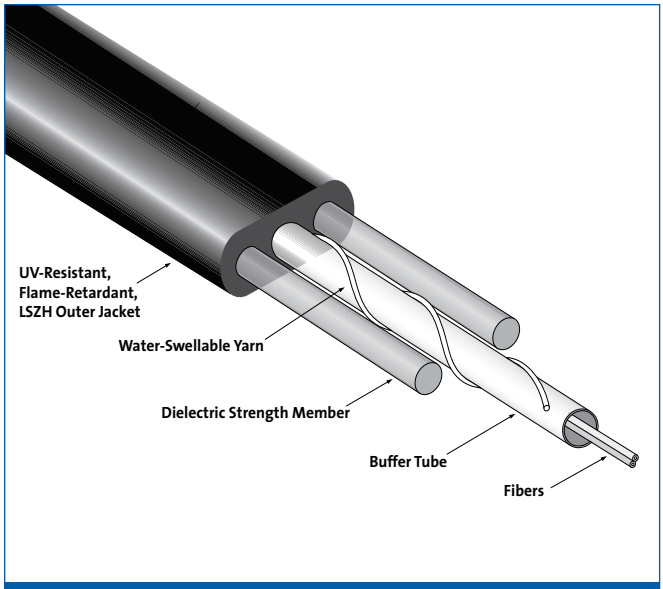
FREEDM® LSZH™ Flat-Drop Riser Cables

A LANscape® Solutions Product

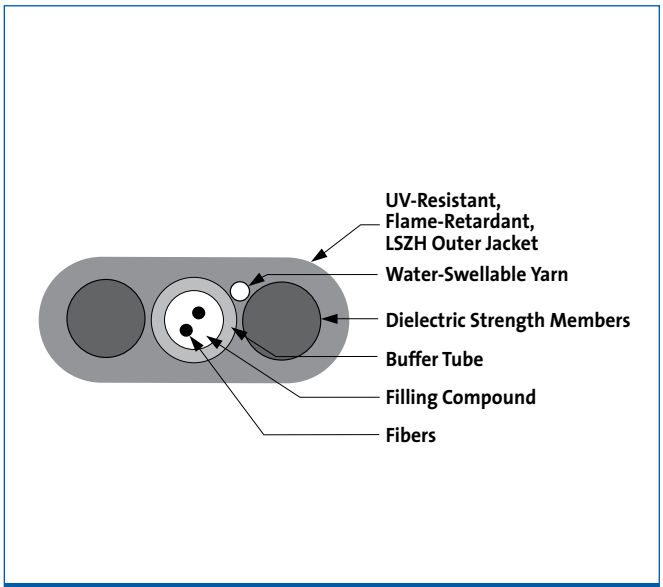
features and benefits |

Aerial self-supporting or direct buried	Design flexibility
All-dielectric design	Eliminates bonding and grounding
Works with industry-standard wedge clamps	Ease of use
UV-resistant, flame-retardant low-smoke/ zero-halogen (LSZH) jacket	Rugged, durable and easy to strip
Tray-rated per UL 13; UL 444; UL 1277; UL 1666; CSA 22.2 No. 230 and No. 232	Tested to industrial ruggedness standards
Available in preconnectorized assemblies	Cable option for AnyLAN™

Corning Cable Systems FREEDM® LSZH™ Flat-Drop Riser Cables are flame-retardant, indoor/outdoor cables suitable for installation in aerial, duct and riser applications. FREEDM LSZH Flat-Drop Riser Cables provide the simple installation of standard FREEDM Cable in an easy-access single-tube design. The small, lightweight tray-rated cables have been tested to meet mechanical and environmental conditions exceeding the requirements for traditional telecom cables. The cable jacket consists of a flame-retardant, non-halogenated, limited-smoke material that provides UV- and chemical resistance. The all-dielectric design eliminates any bonding and grounding requirements. Compatible with industry-standard hardware and available in preconnectorized AnyLAN™ assemblies, FREEDM LSZH Flat-Drop Riser Cables are the perfect solution for indoor/outdoor drop applications. A drop cable access tool is also available, making installations faster, safer and easier.



FREEDM LSZH Flat-Drop Riser Cable
| Drawing ZA-3628



FREEDM LSZH Flat-Drop Riser Cable
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specifications |

Duct/Direct Buried Installation Maximum Tensile Loads	Short-Term: Long-Term:	1350 N (300 lbf) 400 N (90 lbf)
Aerial Installation Maximum Tensile Loads	1350 N (300 lbf)	
Temperatures	Storage: Installation: Operation:	-40° to +70°C (-40° to +158°F) -30° to +70°C (-22° to +158°F) -40º to +70°C (-40° to +158°F)
Approvals and Listings	National Electrical Code® (NEC®) OFNR-LS, CSA OFN FT-4; IEEE-383 flame test; Sunlight Resistant (SUN RES); Suitable for Direct Burial (DIR BUR)	
Design and Test Criteria	UL 13, UL 444, UL 1277, UL 1666, UL 1685, CSA C22 No. 230 and No. 232	

NESC Environmental Loading Condition for Subscriber Drop Application	1% Installation Sag Maximum Span Distance m (ft)	3% Installation Sag Maximum Span Distance m (ft)
Heavy	(110)	(130)
Medium	(165)	(215)
Light	(205)	(285)

Outer Fiber Count	Buffer Tube Weight Diameter mm (in)	Nominal Nominal kg/km (lb/1000 ft)	Minimum Bend Dimensions mm (in)	Radius Installed cm (in)
1-12	3.0 (0.12)	46 (31)	8.2 x 4.5 (0.32 x 0.17)	8.0 (3.15)

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.

☐	☐	☐	☐	B	Z	-	1	4	1	☐	☐	A	2	N
1	2	3	4	5	6		7	8	9	10	11	12	13	14

1-3
Select fiber count (001 to 012).

4
Select fiber code (see Transmission Performance table).

5 / 12
Defines cable type.
B / A = Flat-Drop Cable, Gel-Filled

6
Defines jacket.
Z = LSZH™ jacket

7
Defines fiber placement.
1 = All fibers in a single tube (standard)

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

9
Defines tensile strength.
1 = 1350 N (300 lbf)

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

13-14
Defines special requirements.
2N = No special requirements

SST-Drop Cable Access Tool
| Photo CAB014

Part Number	Description
Accessories	
FDST-000	SST-Drop™ Cable Access Tool

Note: Corning Cable Systems Standard Recommended Procedure SRP-005-066

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