

FREEDM® LST™ Loose Tube, Gel-Free Cable, Riser 6 F, 50 µm multimode (OM3)



Part Number:
006TSF-T4180D20

Corning FREEDM® LST™ gel-free 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, these cables are protected against water penetration by innovative waterblocking tapes and yarns 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. The buffer tubes and fibers in each tube are color coded for quick, easy identification.

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.

Features and Benefits

Riser rating

No transition splices when entering buildings

Gel-free waterblocking technology

Craft-friendly cable preparation

Color-coded fibers

Quick and easy identification

All-dielectric construction

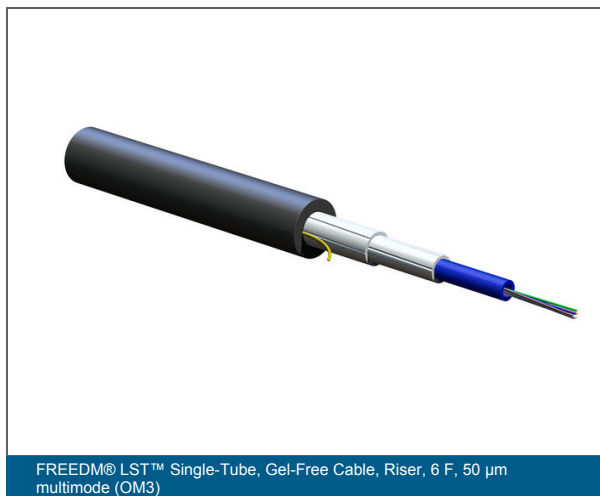
Requires no grounding or bonding

UV-resistant, flame-retardant jacket

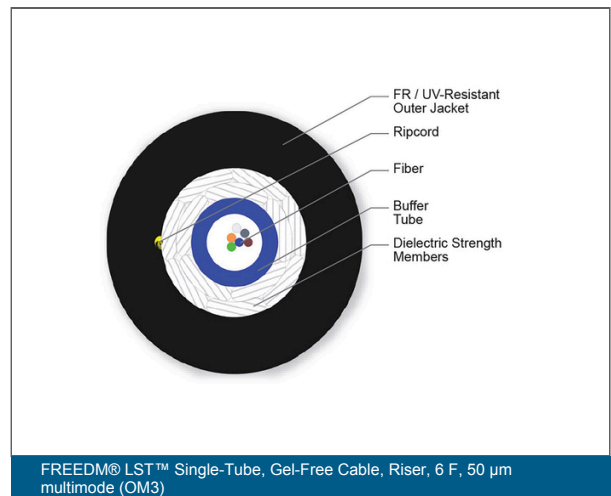
Rugged, durable and easy to strip

Common installations

Outdoor aerial and duct



FREEDM® LST™ Single-Tube, Gel-Free Cable, Riser, 6 F, 50 µm multimode (OM3)



FREEDM® LST™ Single-Tube, Gel-Free Cable, Riser, 6 F, 50 µm multimode (OM3)

FREEDM® LST™ Loose Tube, Gel-Free Cable, Riser 6 F, 50 µm multimode (OM3)



Specifications

General Specifications	
Cable Type	Loose Tube
Environment	Indoor/Outdoor
Product Type	Dielectric
Fiber Category	50 µm MM (OM3)
Flame Rating	Riser (OFNR)
Application	Aerial, Direct Buried, Duct, General purpose, Horizontal, Vertical Riser
Cable geometry	Round

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFCR, CSA OFC FT-4
Common Installations	Outdoor aerial and duct, indoor vertical riser and general purpose horizontal according to National Electrical Code® (NEC®) Article 770
Design and Test Criteria	ANSI/ICEA S-104-696

Environmental Conditions	
Notes	Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.
Temperature Range, Installation	-10 °C to 60 °C (14 °F to 140 °F)
Temperature Range, Operation	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Fiber Count	6
Number of Ripcords	1

FREEDM® LST™ Loose Tube, Gel-Free Cable, Riser 6 F, 50 µm multimode (OM3)



Cable Design	
Outer Jacket Color	Black
Outer Jacket Material	Flame-Retardant, UV-Resistant
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Tensile Strength Elements and/or Armoring - Layer 2	Water-swellable dielectric strength members
Number of Active Tubes	1
Number of Tube Positions	1
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White
Fibers per Tube	6

Mechanical Specifications	
Max. Tensile Strength, Long-Term	400 N (89.92 lbf)
Max. Tensile Strength, Short-Term	1350 N (303.49 lbf)
Min. Bend Radius Installation	111 mm (4.37 in)
Min. Bend Radius Operation	37 mm (1.46 in)
Nominal Outer Diameter	7.4 mm (0.29 in)
Notes	<i>Actual cable outer diameter may vary ± 0.3 mm</i>

Optical Characteristics	
Fiber Code	T
Fiber Type	Multimode
Performance Option Code	80
Fiber Core Diameter	50 µm
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km
Serial 1 Gigabit Ethernet	1000 MHz*km / 600 MHz*km
Serial 10 Gigabit Ethernet	300 MHz*km / -
Wavelengths	850 nm / 1300 nm

FREEDM® LST™ Loose Tube, Gel-Free Cable, Riser 6 F, 50 µm multimode (OM3)



Optical Characteristics

Fiber Category	OM3
----------------	-----

Dimensions

Cable Weight	56 kg/km (37.63 lb/1000 ft)
Length	0 mm (0 in)



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

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2025 Corning Optical Communications. All rights reserved.