

FREEDM® LST™ Loose Tube, Gel-Free Cable, Plenum 12 F, 50 µm multimode (OM3)



Part Number:
012TSP-T4180D20

Corning FREEDM® loose tube gel-free plenum cables are flame-retardant, indoor/outdoor, plenum-rated cables suitable for installation in interbuilding and intrabuilding backbones in aerial, duct and riser or plenum applications. The loose tube design offers mechanical ruggedness and environmental durability while the all-dielectric cable construction requires no grounding or bonding. The water-swallowable 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.

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. The plenum rating of this cable eliminates the need to transition splice when entering the building and minimizes routing restrictions once inside the building. Meeting the requirements of the National Electrical Code® (NEC®) Article 770, the cables are also OFNP and FT-6 listed.

Features and Benefits

Gel-free waterblocking technology

Craft-friendly cable preparation

Loose tube design

Stable performance and compatibility with all common fiber types

Color-coded fibers

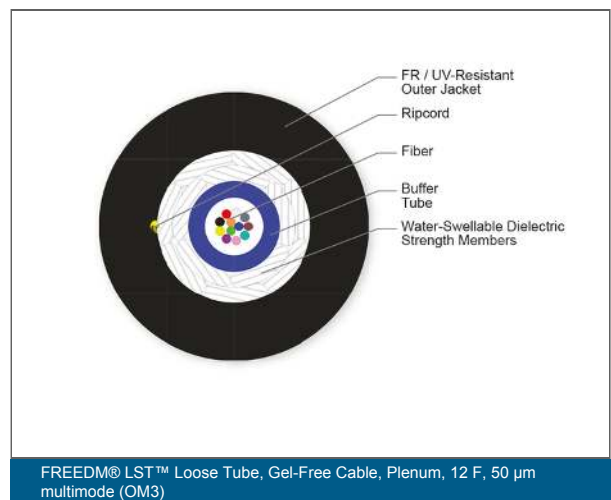
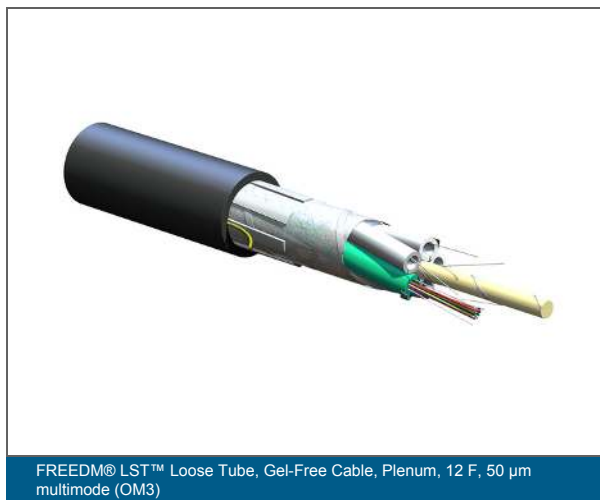
Quick and easy identification

All-dielectric construction

Requires no grounding or bonding

All-dielectric strength member

Mechanical durability



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Specifications

General Specifications	
Environment	Indoor/Outdoor
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	50 µm MM (OM3)
Flame Rating	Plenum (OFNP)
Application	Aerial, Direct Buried, General Purpose Horizontal
Fiber Count	12

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFNP, CSA FT-6
Design and Test Criteria	ANSI/ICEA S-104-696, NFPA 262 (for plenum, riser and general building applications)

Environmental Conditions	
Temperature Range, Installation	0 °C to 60 °C (32 °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	12
Buffer Tube Color Coding	Aqua
Number of Ripcords	2
Outer Jacket Color	Black
Outer Jacket Material	Flame-Retardant, UV-Resistant
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members

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Cable Design	
Buffer Tube Color	Aqua
Number of Active Tubes	1
Number of Tube Positions	1
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

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	74 mm (2.91 in)
Nominal Outer Diameter	7.4 mm (0.29 in)

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
Fiber Category	OM3

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Ordering Information	
Product Number	012TSP-T4180D20
EAN Code	4056418176406
Weight	6098 kg/km (4097.67 lb/1000 ft)



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

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