FREEDM® LST™ Loose Tube, Gel-Free Cable, Plenum

6 F, Single-mode (OS2)

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-swellable 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.

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

Gel-free waterblocking technology
Craft-friendly cable preparation

Loose tube design
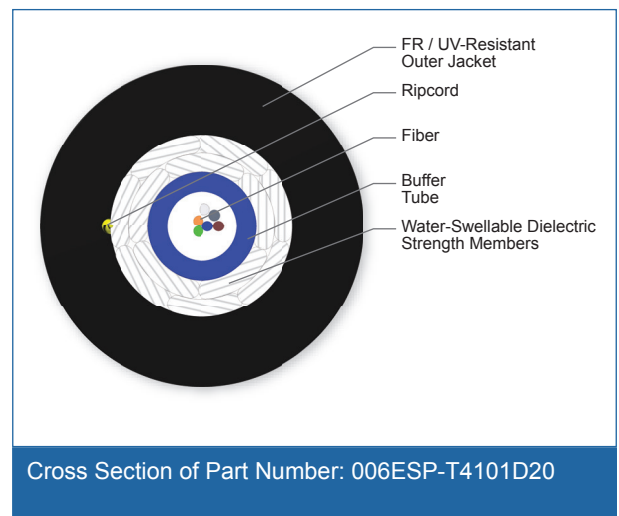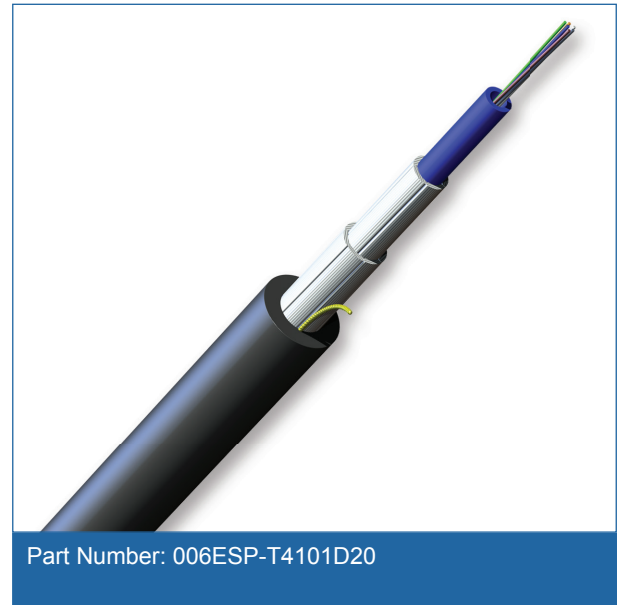Stable performance and compatibility with all common fiber types

Color-coded fibers
Quick and easy identification

All-dielectric construction
Requires no grounding or bonding

Meets NEC requirements
Meets burn test criteria

Part Number: 006ESP-T4101D20

FR / UV-Resistant Outer Jacket
Ripcord
Fiber
Buffer Tube
Water-Swellable Dielectric Strength Members

Cross Section of Part Number: 006ESP-T4101D20

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Standards

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)

Specifications

General Specifications	
Environment	Indoor/Outdoor Cables
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser, Plenum)
Cable Type	Loose Tube
Product Type	Dielectric
Flame Rating	Plenum (OFNP)
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

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

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Mechanical Characteristics Cable	
Weight	60.98 kg/km (40.98 lb/1000 ft)
Nominal Outer Diameter	7.4 mm (0.29 in)
Max. Tensile Strength, Short-Term	1350 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Min. Bend Radius Installation	111 mm (4.4 in)
Min. Bend Radius Operation	74 mm (2.9 in)

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

Ordering Information

Part Number	006ESP-T4101D20
Product Description	FREEDM® LST™ Loose Tube, Gel-Free Cable, Plenum, 6 F, Single-mode (OS2)
EAN Code	4056418175874

RoHS COMPLIANT

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