

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

12 fibres, single-mode (OS2)

CORNING

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 armour 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 colours – blue, orange, green, brown, grey, white, red, black, yellow, violet, pink and turquoise. The coloured 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 colour using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other colour options.

Features and Benefits

Gel-free waterblocking technology

Craft-friendly cable preparation

Loose tube design

Stable performance and compatibility with all common fibre types

Colour-coded fibres

Quick and easy identification

All-dielectric cable construction

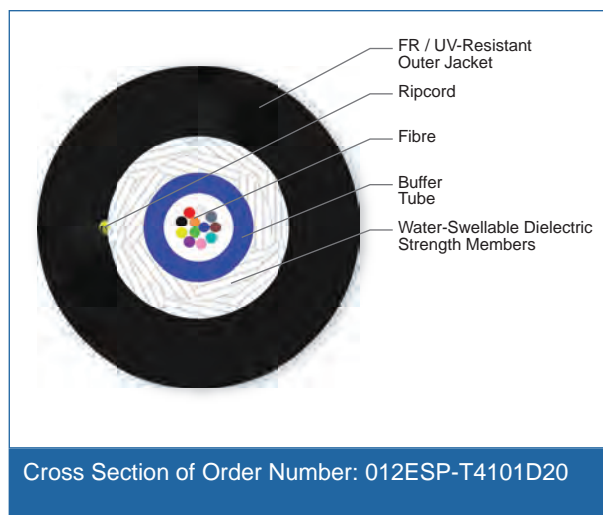
Requires no grounding or bonding

Meets NEC requirements

Meets burn test criteria



Part Number: 012ESP-T4101D20



Cross Section of Order Number: 012ESP-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, CSA C22.2 No. 230 and No. 232

Specifications

General Specifications	
Environment	Indoor / Outdoor
Application	Aerial, Direct Buried, Duct, General Purpose Horizontal, (Vertical Riser, Plenum)
Cable type	Loose Tube
Product type	Dielectric
Flame rating	Plenum (OFNP)
Fibre Category	single-mode (OS2)

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

Cable design	
Fibre Count	12
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Number of Tube Positions	1
Number of Active Tubes	1
Buffer tube colour coding	yellow
Tensile Strength Elements and/or Armouring - Layer 1	Dielectric strength members
Number of ripcords	2
Outer jacket material	Flame-Retardant, UV-Resistant
Outer jacket colour	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
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Ordering Information

Part Number	012ESP-T4101D20
Product Description	FREEDM [®] LST [™] Loose Tube, Gel-Free Cable, Plenum, 12 F, Single-mode (OS2)
EAN Code	4056418190945



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