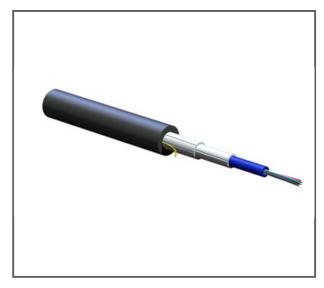


Part Number: 012ZSP-T4101D20

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.



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



Specifications

Mechanical Specifications	
Max. Tensile Strength, Long-Term	400 N
Max. Tensile Strength, Short-Term	1350 N
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)

Cable Design	
Fiber Count	12
Buffer Tube Color Coding	Yellow
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
Buffer Tube Color	Yellow
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



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

General Specifications		
Environment	Indoor/Outdoor	
Cable Type	Loose Tube	
Product Type	Dielectric	
Fiber Category	SMF-28® Ultra fiber	
Flame Rating	Plenum (OFNP)	
Application	Aerial , Direct Buried , Duct , General Purpose Horizontal	

Ordering Information	
Weight	60.98 kg/km

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 ANSI/ICEA S-104-696, NFPA 262 (for plenum, riser and general building applications)	



Optical Characteristics	
Fiber Code	Z
Fiber Name	SMF-28® Ultra fiber
Fiber Type	Single-mode
Performance Option Code	01
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	ITU-TG.657.A1



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