ALTOS® Loose Tube, Gel-Free, All-Dielectric, Non-Armoured Cables with Binderless FastAccess™ Technology 1x12 F, SMF-28® ULTRA, LT 2.0 HDPE

Part Number:
012ZP4-T3F20D20

Corning ALTOS® cable with Binderless FastAccess® technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for lashed aerial and duct installations. The innovative FastAccess technology feature combined with the gel-free binderless loose tube design simplifies removal of the cable jacket and accessing the buffer tubes. The loose tube design uses Corning's SMF-28® Ultra fibre to provide reliable transmission parameters for a variety of voice, data, video and imaging applications. The cable is fully waterblocked using craft-friendly, water-swellable materials, which means no cleanup is required. The flexible buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibres from installation and environmental rigors while allowing easy midspan access. The all-dielectric gel-free cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to handle.

Features and Benefits

Binderless FastAccess™ Technology

Innovative cable design that reduces cable access time up to 70 percent and lowers the risk of inadvertent fibre damage

Fully waterblocked loose tube all-dielectric gel-free design

Simple access and no clean up

Fibres/buffer tubes colour coded to Telcordia-Bellcore

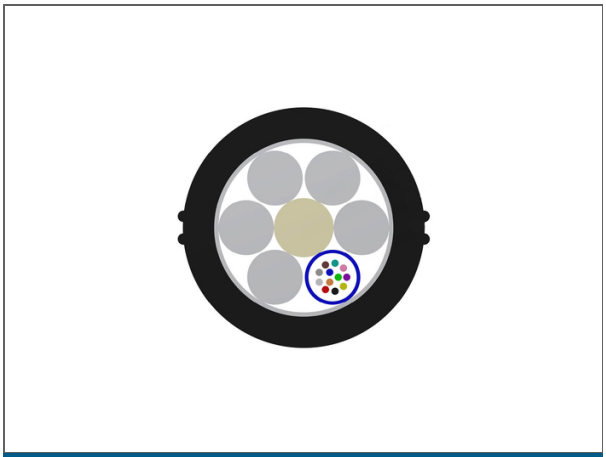
Easy identification of the individual tubes and fibres

Available with G.652.D and/or G.657.A1 fibre

Ready for any application

All-dielectric cable construction

Requires no grounding or bonding



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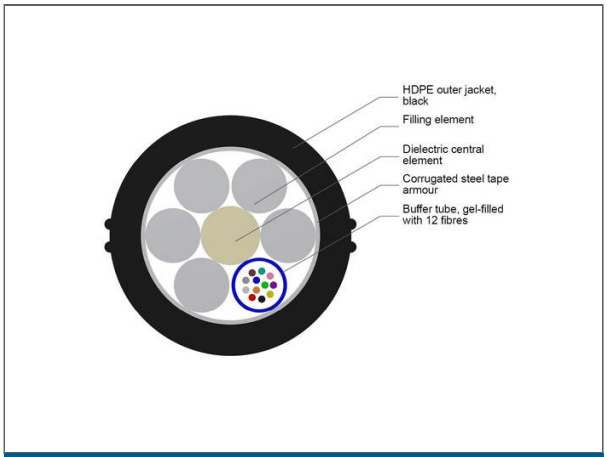

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Specifications

General Specifications	
Installation Methods	Duct
Cable type	Loose tube
Environment	Outdoor
Product type	Dielectric
Fibre category	SMF-28® Ultra fibre ITU-TG.652.D + ITU-TG.657.A1
Coding according to EN 60794-1-1 (DIN VDE 0888-100-1)	A-BQ(ZN)2Y
Cable geometry	Round

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 60794-3-10
Design And Test Criteria	IEC 60794-3-10
Waterblocking	IEC 60794-1-2 F5

Environmental Conditions	
Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-30 °C to 70 °C
Temperature range, storage	-40 °C to 70 °C

Cable Design	
Cable marking	Metre - Handset - Sine - CORNING - Year - ALTOS (R) A-BQ(ZN)2Y 1X12 E9U LT 2.0
Central element	Glass reinforced Plastic (Dielectric)
Fibre count	12
Buffer tube colour coding, layer 1	Blue
Outer jacket colour	Black

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CORNING

Cable Design	
Outer jacket material	High Density Polyethylene (HDPE)
Outer jacket minimum thickness	1.1 mm
Outer jacket nominal thickness	1.1 mm
Buffer tube diameter	2 mm
Central element diameter	2.1 mm
Number of active tubes	1
Number of filling elements	5
Number of tube positions	6
Waterblocking material	Water-swellable
Cable marking method	Laser printing
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Colour Code Standards	Telcordia

Mechanical Specifications	
Crush resistance	1500 N/10 cm
Max. tensile strength for installation	1500 N
Min. bend radius installation	170 mm
Min. bend radius operation	85 mm
Nominal outer diameter	8.5 mm

Optical Characteristics	
Fibre code	Z
Performance option code	20
Fibre category	OS2
Fibre Type	Single-mode (OS2) / 250 µm
Fibre name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.20 dB/km

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CORNING

Optical Characteristics	
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Fibre core diameter	8.2 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]
Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 µm
Mode-Field Diameter at 1550 nm	10.4 µm
PMD Link Design Value	≤ 0.04 ps/√km
PMD (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/√km

Dimensions	
Cable Weight	51 kg/km
Max. cable length per reel/drum	6000 m

RoHS COMPLIANT

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