

ALTOS® Loose Tube, Gel-Free, All-Dielectric, Non-Armored Cables with Binderless* FastAccess® Technology

12 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

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 fiber to provide reliable transmission parameters for a variety of voice, data, video and imaging applications. The cable is fully waterblocked using craft-friendly, water-swellaable 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 fibers 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 polyethylene jacket that is rugged, durable and easy to handle.

** Corning's patented Binderless* FastAccess® Technology refers to the combination of a Corning FastAccess Technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and waterblocking tapes.*

Features and Benefits

Binderless* FastAccess® Technology

Corning's Binderless FastAccess Technology refers to the combination of a Corning FastAccess Technology jacket with an innovative technology used to bind cable construction through the manufacturing process, eliminating the use of binder yarns and waterblocking tapes and resulting in a 25 percent improvement in cable access time. These technologies also reduce the overall risk of inadvertent fiber damage by reducing the need for sharp cable access tools.

Binderless stranded optical core

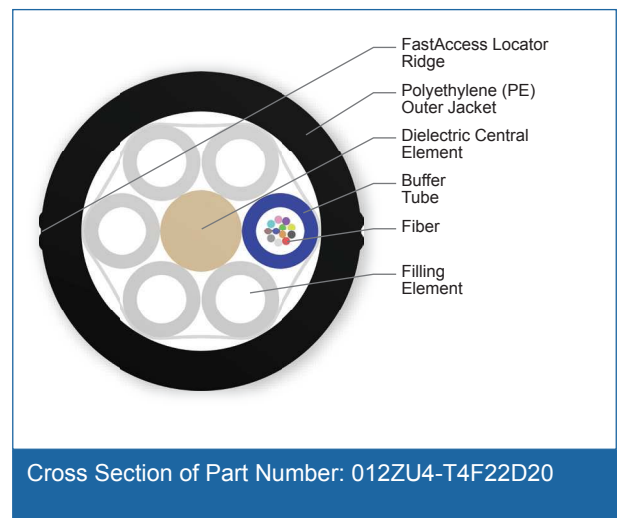
Elimination of overlapping yarn binders around stranded tubes to reduce end access time

Fully waterblocked loose tube, gel-free design

Simple access and no clean up

Polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)



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Features and Benefits

Available with G.652.D and/or G.657.A1 fiber
Ready for any application

Standards

Common Installations Outdoor lashed aerial and duct; indoor when installed according to National Electrical Code® (NEC®) Article 770

Design and Test Criteria ANSI/ICEA S-87-640,
Telcordia GR-20, RDUP
PE-90

Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design	
Central Element	Dielectric
Fiber Count	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6

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Cable Design

Number of Active Tubes	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-Swellable
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	62.5 kg/km (41.9 lb/1000 ft)
Nominal Outer Diameter	10.2 mm (0.40 in)
Min. Bend Radius Installation	153 mm (6.02 in)
Min. Bend Radius Operation	102 mm (4.01 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	SMF-28® Ultra fiber
Fiber Category	G.652.D/G.657.A1
Fiber Code	Z
Performance Option Code	22
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.22 dB/km
Typical Attenuation*	0.32 dB/km / 0.32 dB/km / 0.18 dB/km

* For more information on typical attenuation please see the Corning whitepaper at http://csmedia.corning.com/opcomm//Resource_Documents/whitepapers_rl/LAN-1863-AEN.pdf

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Ordering Information

Part Number	012ZU4-T4F22D20
Product Description	ALTOS® Loose Tube, Gel-Free, All-Dielectric, Non-Armored Cables with Binderless* FastAccess® Technology, 12 F, SMF-28® Ultra fiber, Single-mode (OS2)
EAN Code	4056418344409



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