

ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess® Technology 144 F, LEAF® fiber, Single-mode (OS2)

CORNING

Part Number:
144FU4-T4701D20

Corning ALTOS® cable with FastAccess® technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The innovative FastAccess technology feature combined with the all-dielectric gel-free loose tube design simplifies removal of the cable jacket reducing cable end access time by at least 50 percent. Equally important is the overall reduction in risk of inadvertent fiber damage and risk to installers from sharp cable access tools. The cable is fully waterblocked using craft-friendly, water-swellaable materials, which means no clean up 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 mid-span 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. A variety of fiber types are available including 62.5 μm and 50 μm , single-mode and hybrid versions, as well as fibers with Gigabit and 10 Gigabit Ethernet performance.

Features and Benefits

Contains FastAccess® technology

Innovative cable jacket feature reduces cable end access time, reduces overall risk of inadvertent fiber damage, as well as, risk to installers from sharp cable access tools

Polyethylene jacket

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

Fully waterblocked loose tube all-dielectric gel-free design

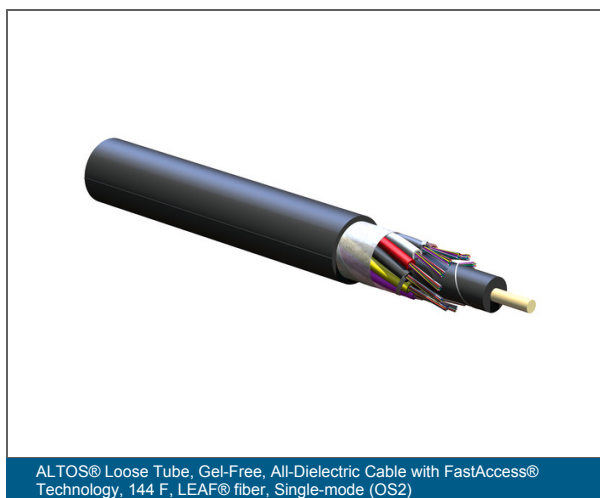
Simple access and no clean up

Industry-standard performance

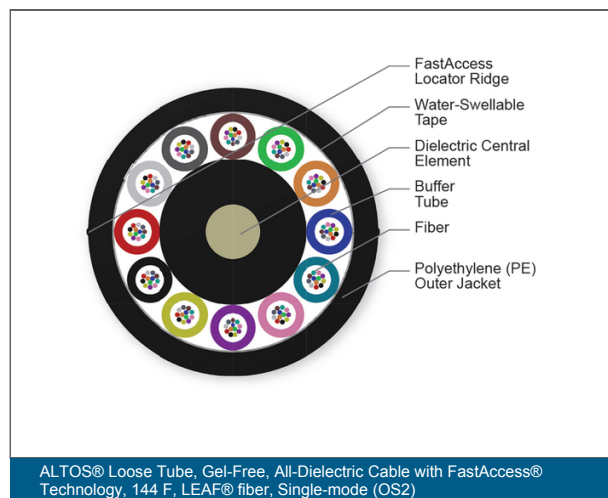
Meets the requirements of Telcordia GR-20, Issue 3 and ICEA S-87-640

Available in 62.5 μm , 50 μm , single-mode and hybrid versions

Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet



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Specifications

General Specifications

Cable Type	Loose Tube
Environment	Outdoor
Product Type	Dielectric
Fiber Category	LEAF® fiber
Application	Aerial, Duct
Cable geometry	Round

Standards

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

Environmental Conditions

Notes	Corning recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.
Temperature Range, Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Temperature Range, Operation	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Central Element	Dielectric
Fiber Count	144
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)

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Cable Design

Buffer Tube Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	12
Number of Tube Positions	12
Tape	Water-swellaable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Color Code Standards	Telcordia

Mechanical Specifications

Max. Tensile Strength, Long-Term	890 N (200.08 lbf)
Max. Tensile Strength, Short-Term	2700 N (606.98 lbf)
Nominal Outer Diameter	15.8 mm (0.62 in)
Min. Bend Diameter Installation	474 mm (18.66 in)
Min. Bend Diameter Operation	316 mm (12.44 in)

Optical Characteristics

Fiber Code	F
Performance Option Code	01
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	LEAF®
Maximum Attenuation	- / - / 0.25 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.655.D

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Cable with FastAccess® Technology 144 F,
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Dimensions	
Cable Weight	162 kg/km (108.86 lb/1000 ft)



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