

ALTOS® Loose Tube, Gel-Free, Double-Jacket, Single-Armored Cable

12 F, Single-mode (OS2)

CORNING

Corning Cable Systems ALTOS® Gel-Free, Double-Jacket, Single-Armored Cables are rugged, armored cables designed for direct-buried installation while suitable for duct and aerial (lashed) installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Gel-free waterblocking technology

Craft-friendly cable preparation

Corrugated steel tape armor

Provides rodent resistance for direct-buried applications

Flexible, craft-friendly buffer tubes

Easy to route in closures

SZ-stranded, loose tube design

Isolates fibers from installation and environmental rigors and facilitates midspan access

Dielectric central strength member

No preferential bend and requires no bonding or grounding

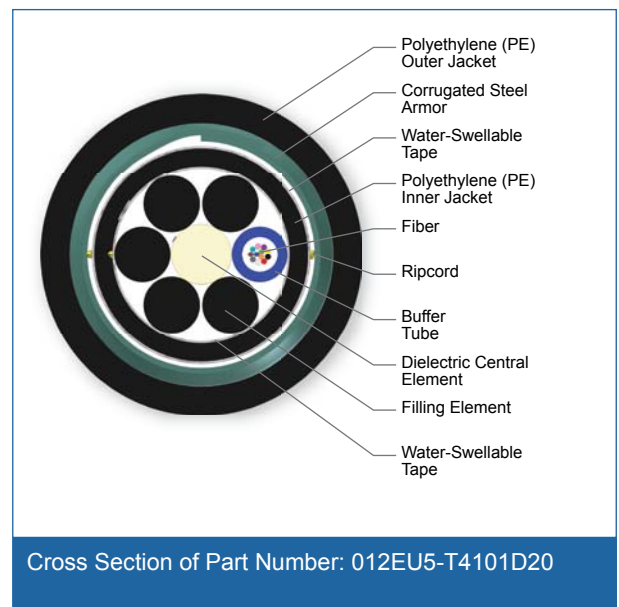
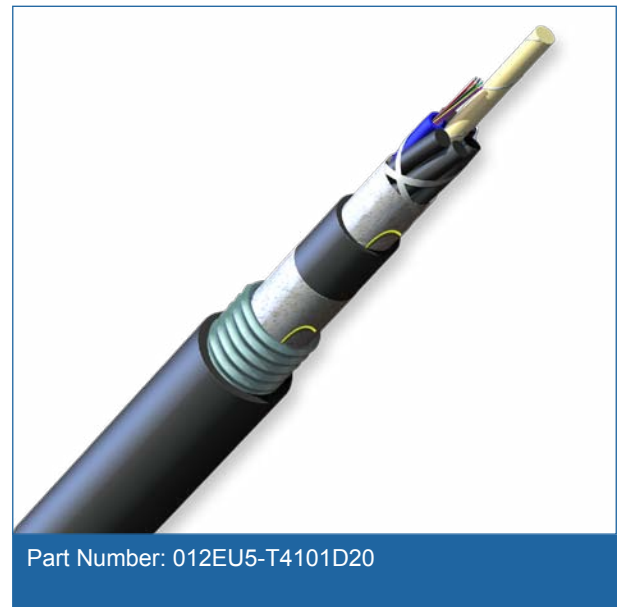
Medium-density polyethylene jacket

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

Standards

Approval and Listings USDA Rural Development Programs

Design and Test Criteria Telcordia GR-20, ICEA-640



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Specifications

General Specifications	
Environment	Outdoor
Applications	Aerial, Direct Buried
Cable Type	Loose Tube
Product Type	Armored
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
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
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellable
Number of Ripcords	3
Tensile Strengths Elements / Armoring - Layer 1	Corrugated steel tape armor
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

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Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	179 kg/km (120 lb/1000 ft)
Nominal Outer Diameter	14.3 mm (0.56 in)
Min. Bend Radius Installation	215 mm (8.4 in)
Min. Bend Radius Operation	143 mm (5.6 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	8.2 μm
Fiber Type	Single-mode
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

* ITU-T G.652 D compliant

* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

- Notes:
- 1) Improved attenuation and bandwidth options available
 - 2) Bend-insensitive single-mode fibers available on request
 - 3) Contact a Corning Cable Systems Customer Service Representative for additional information

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Ordering Information

Order Number	012EU5-T4101D20
Product Description	ALTOS® Loose Tube, Gel-Free, Double-Jacket, Single-Armored Cable, 12 F, Single-mode (OS2)

Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/cablesystems

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