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

144 F, Single-mode (OS2)

CORNING

Corning ALTOS® Lite™ gel-free double-jacket, double-armored cables are rugged cables designed for direct-buried installations. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Two jacket layers and two steel tape armor layers
Provides superior rodent resistance for direct-buried applications

Flexible, craft-friendly buffer tubes
Facilitate easy routing in closures

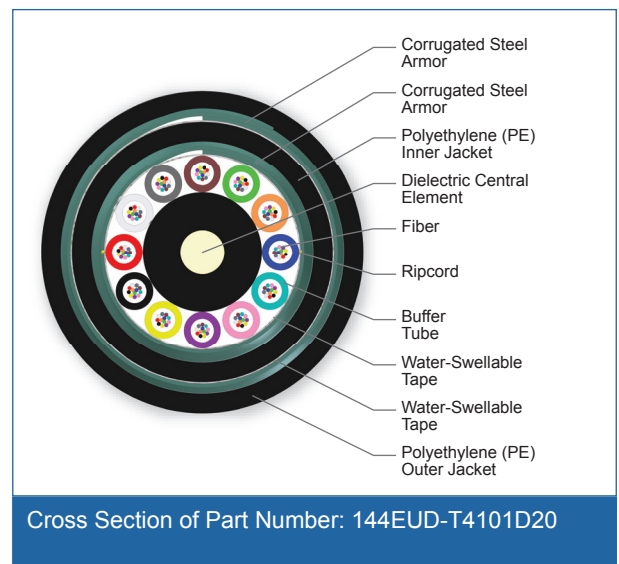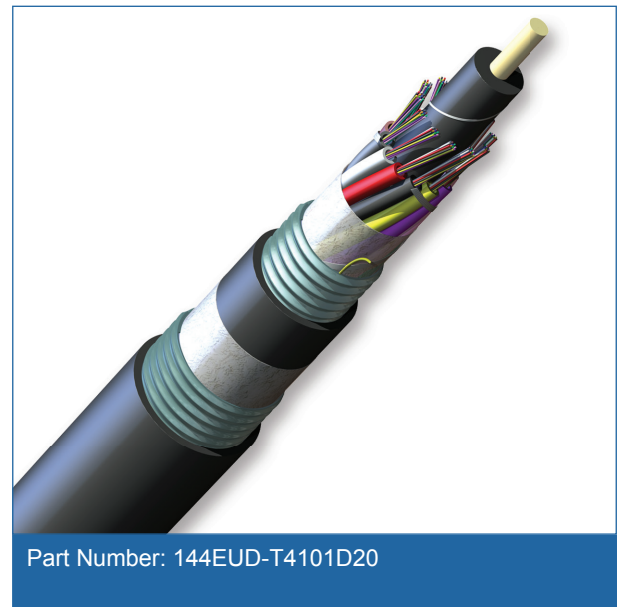**Gel-free waterblocking technology**
Craft-friendly cable preparation

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

Exceeds the RDUP requirements for mid-span buffer tube slack storage
Provides flexibility for mid-span access applications

Standards

Approvals and Listings	USDA Rural Development Programs
Design and Test Criteria	ANSI/ICEA S-87-640

Part Number: 144EUD-T4101D20

Corrugated Steel Armor
Corrugated Steel Armor
Polyethylene (PE) Inner Jacket
Dielectric Central Element
Fiber
Ripcord
Buffer Tube
Water-Swellable Tape
Water-Swellable Tape
Polyethylene (PE) Outer Jacket

Cross Section of Part Number: 144EUD-T4101D20

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Specifications

General Specifications	
Environment	Outdoor
Application	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	144
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	12
Number of Active Tubes	12
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Diameter	2.5 mm (0.1 in)
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellable
Number of Ripcords	4
Tensile Strength Elements and/or Armoring - Layer 2	Corrugated steel tape armor
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Maximum Fibers per Tube	12

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Mechanical Characteristics Cable

Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	412 kg/km (276 lb/1000 ft)
Nominal Outer Diameter	21.6 mm (0.85 in)
Min. Bend Radius Installation	324 mm (12.8 in)
Min. Bend Radius Operation	216 mm (8.5 in)

Chemical Characteristics

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

Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
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

Ordering Information

Part Number	144EUD-T4101D20
Product Description	ALTOS® Lite™ Loose Tube, Gel-Free, Double-Jacket, Double-Armored Cable, 144 F, Single-mode (OS2)
EAN Code	4056418167848

RoHS COMPLIANT

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