ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable 48 F, Single-mode (OS2)

Part Number:
048EUC-T4100D20

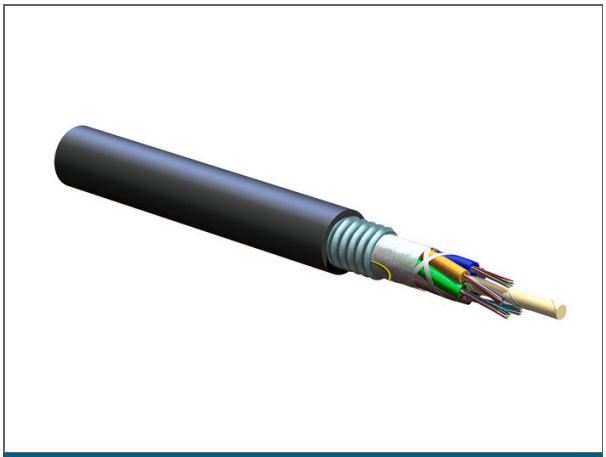
Corning ALTOS® Lite gel-free, single-jacket, single-armored cables are designed for campus backbones in direct-buried installations. The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. These cables also provide high-fiber density within a given cable diameter while allowing flexibility to suit many system configurations. The single armored construction provides additional crush and rodent protection with a high-strength ripcord under the armor for easy stripping. Gel-free means the cables are fully waterblocked using craft-friendly, water-swellable materials which make cable access simple and require no clean up. The flexible, craft-friendly 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. These cables have a medium density polyethylene jacket that is rugged, durable and easy to strip.

Features and Benefits

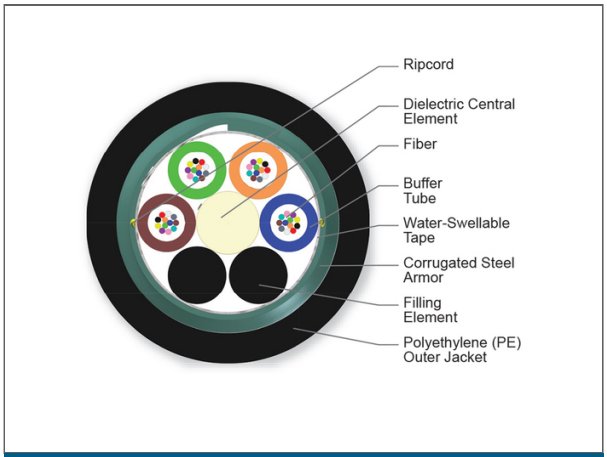
Gel-free waterblocking technology
Craft-friendly cable preparation

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

Corrugated steel tape armor
Provides rodent resistance for direct-buried applications



ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable, 48 F, Single-mode (OS2)



ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable, 48 F, Single-mode (OS2)

ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable 48 F, Single-mode (OS2)

CORNING

Specifications

General Specifications	
Installation Methods	Aerial, Direct Buried, Duct
Cable Type	Loose Tube
Environment	Outdoor
Product Type	Steel Tape Armor
Fiber Category	Single-mode (OS2)
Cable geometry	Round

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Common Installations	Outdoor lashed aerial, duct and direct-buried, 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	48
Number of Ripcords	2
Outer Jacket Color	Black

ALTOS® Lite Loose Tube, Gel-Free, Single-Jacket, Single-Armored Cable 48 F, Single-mode (OS2)

CORNING

Cable Design	
Outer Jacket Material	Polyethylene (PE)
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Buffer Tube Color	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm
Number of Active Tubes	4
Number of Filling Elements	2
Number of Tube Positions	6
Tape	Water-swellable
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
Max. Tensile Strength, Short-Term	2700 N
Nominal Outer Diameter	12.1 mm
Min. Bend Diameter Installation	364 mm
Min. Bend Diameter Operation	242 mm

Dimensions	
Cable Weight	129 kg/km

RoHS COMPLIANT

Corning Comunicacoes Opticas • Estrada do Camorim 633 • Jacarepagua CEP 22780-070 • Rio De Janeiro, RJ Brazil
+55 21 3416 5150 • FAX: +55 21 2441 2037 • www.corning.com/opcomm/csa

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified. © 2026 Corning Optical Communications. All rights reserved.