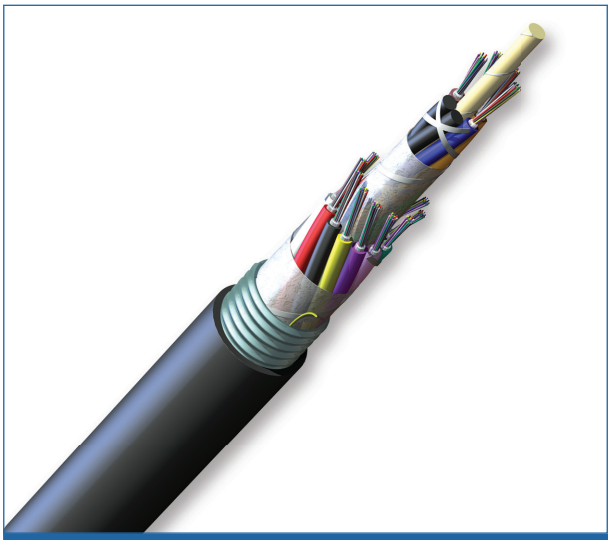
ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable

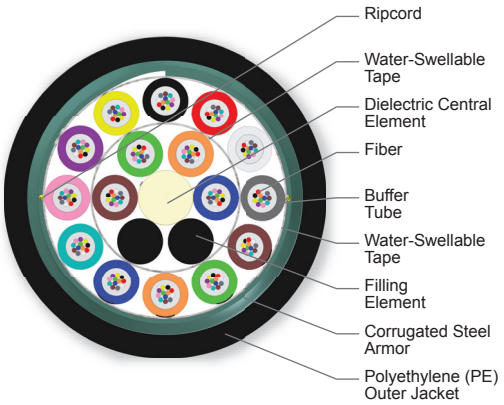
192 F, Single-mode (OS2)

CORNING

Corning ALTOS® low-temperature cables are designed for extreme cold temperature environments with an extended operating range of -50º to +70ºC (-58º to +158ºF). Dielectric and armored jackets allow for duct, direct-buried or aerial (lashed) installation.



Part Number: 192EUC-T4101C20



Cross Section of Part Number: 192EUC-T4101C20

Features and Benefits

Extended operating temperature range of -50º to +70ºC (-58º to +158ºF)
Allows for operation at extreme low temperatures

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

Innovative waterblocking design
Provides efficient and craft-friendly cable preparation

SZ-stranded, loose tube design
Isolates fibers from installation and environmental rigors and facilitates mid-span 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

Approvals and Listings	USDA Rural Development Programs
Common Installations	Designed for Direct-Buried and Aerial Applications
Design and Test Criteria	Telcordia GR-20, ICEA-640

Specifications

General Specifications	
Environment	Outdoor
Application	Aerial, Direct Buried, Duct
Cable Type	Loose Tube

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General Specifications	
Product Type	Armored
Fiber Category	Single-mode (OS2)

Temperature Range	
Storage	-50 °C to 70 °C (-58 °F to 158 °F)
Installation	-30 °C to 70 °C (-22 °F to 158 °F)
Operation	-50 °C to 70 °C (-58 °F to 158 °F)

Cable Design	
Central Element	Dielectric
Fiber Count	192
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	18
Number of Active Tubes	16
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellable
Buffer Tube Color Coding, Layer 2	Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*
Tape, Layer 2	Water-swellable
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 3	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Number of Ripcords	3
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Notes: *Tubes 13 to 24 include a co-extruded stripe that is white for the black tube and black for all other tube colors.*

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)

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Mechanical Characteristics Cable	
Weight	256 kg/km (172 lb/1000 ft)
Nominal Outer Diameter	17.7 mm (0.7 in)
Min. Bend Radius Installation	266 mm (10.5 in)
Min. Bend Radius Operation	177 mm (7 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	192EUC-T4101C20
Product Description	ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled Single-Jacket, Single-Armored Cable, 192 F, Single-mode (OS2)
EAN Code	4056418167039

RoHS COMPLIANT

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