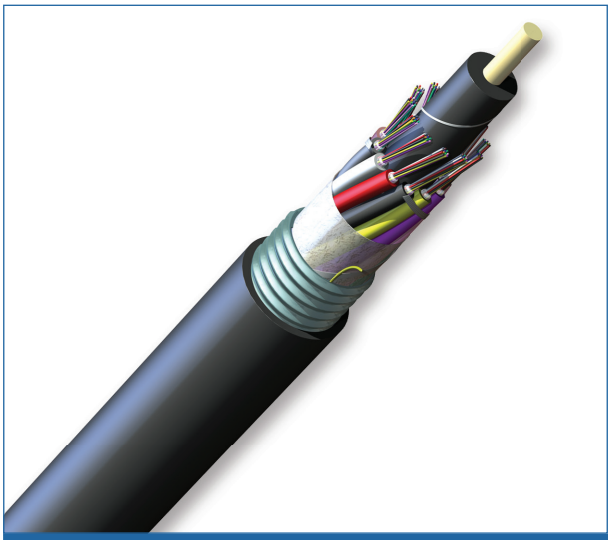
ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled, Single-Jacket, Single-Armored Cable

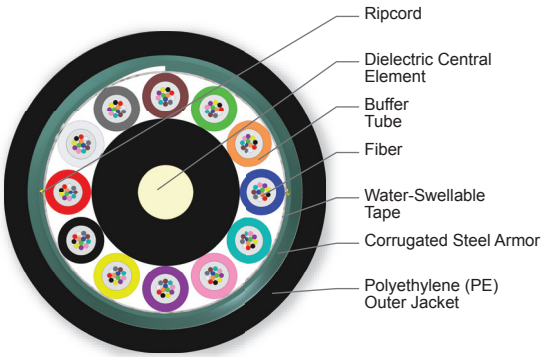
144 F, 62.5 µm multimode (OM1)

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: 144KUC-T4130C20



Cross Section of Part Number: 144KUC-T4130C20

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	62.5 µm MM (OM1)

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	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
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	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

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	262 kg/km (176 lb/1000 ft)
Nominal Outer Diameter	17.5 mm (0.69 in)
Min. Bend Radius Installation	263 mm (10.3 in)
Min. Bend Radius Operation	175 mm (6.9 in)

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

Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -

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

Ordering Information

Part Number	144KUC-T4130C20
Product Description	ALTOS® Lite™ Low-Temperature, Loose Tube, Gel-Filled Single-Jacket, Single-Armored Cable, 144 F, 62.5 µm multi-mode (OM1)
EAN Code	4056418167688

RoHS COMPLIANT

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