

ALTOS® Lite Low-Temperature, Loose Tube, Gel-Free, Single-Jacket, Single-Armoured Cable

144 fibres, single-mode (OS2)

CORNING

Corning ALTOS® gel-free, low-temperature cables are designed for extreme cold temperature environments with an extended operating range of -50° to +70°C (-58° to +158°F). Armoured jackets allow for duct, direct-buried or aerial (lashed) installation.

Features and Benefits

Extended operating temperature range of -50° to +70°C (-58° to +158°F)

Allows for operation at extreme low temperatures

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

Gel-free waterblocking technology

Craft-friendly cable preparation

Dielectric central strength member

No preferential bend and requires no bonding or grounding

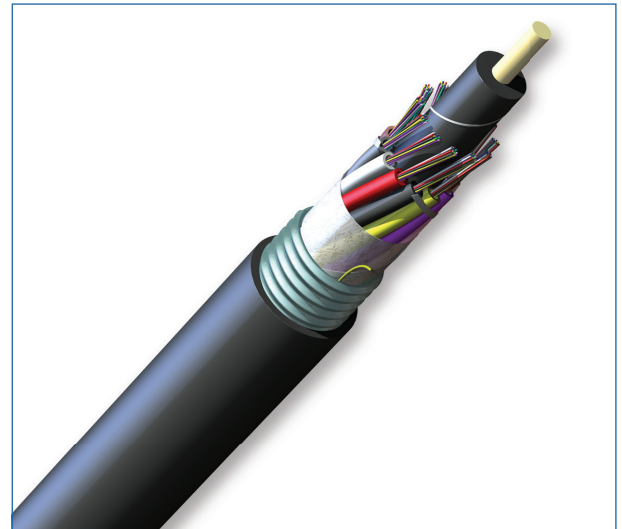
Medium-density polyethylene jacket

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

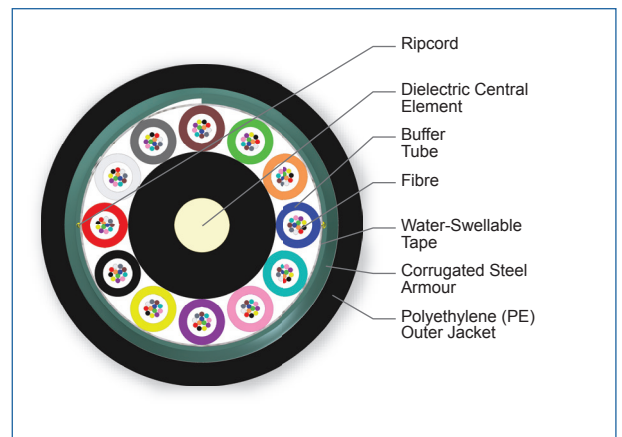
Standards

Approvals and Listings USDA Rural Development Programs

Design And Test Criteria ANSI/ICEA S-87-640



Part Number: 144EUC-T4101F20



Cross Section of Order Number: 144EUC-T4101F20

Specifications

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

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General Specifications

Product type	Armoured
Fibre Category	Single-mode (OS2)

Temperature Range

Storage	-50 °C to 70 °C (-58 °F to 158 °F)
Installation and assembly	-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
Fibre Count	144
Fibre colouring	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Fibres per tube	12
Number of Tube Positions	12
Number of Active Tubes	12
Buffer tube colour coding	Blue, Orange, Green, Brown, Grey, White, Red, Black, Yellow, Violet, Pink, Turquoise
Buffer tube diameter	2.5 mm (0.1 in)
Tape	Water-swellaable
Tensile Strength Elements and/or Armouring - Layer 1	Corrugated steel tape armour
Number of ripcords	2
Outer jacket material	Polyethylene (PE)
Outer jacket colour	Black

Mechanical Characteristics Cable

Max. tensile strength, short-term	2700 N (600 lbf)
Max. Tensile Strength, Long-Term	890 N (200 lbf)
Weight	245 kg/km (166 lb/1000 ft)
Nominal Outer Diameter	17.5 mm (0.69 in)
Min. Bend Radius Operation	263 mm (10.3 in)
Min. Bend Radius Installation	175 mm (6.9 in)

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Chemical Characteristics

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

Part Number	144EUC-T4101F20
Product Description	ALTOS® Lite Low-Temperature, Loose Tube, Gel-Free, Single-Jacket, Single-Armoured Cable, 144 fibres, Single-mode (OS2)
EAN Code	4056418170466



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