

ALTOS® Double-Jacket, Single-Armored Cables, 12-432 Fibers, Enhanced

144 F, Single-mode (OS2)

CORNING

ALTOS® double-jacket, single-armored cables are rugged, armored cables designed for direct-buried installation while suitable for duct and aerial (lashed) installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

Two jacket layers and two steel tape armor layers

Provide superior rodent resistance for direct-buried applications

Innovative waterblocking design

Provides efficient and 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)

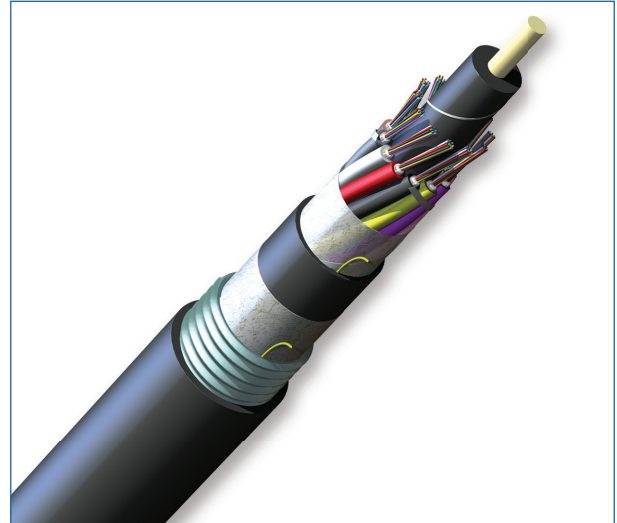
Standards

Approvals and Listings

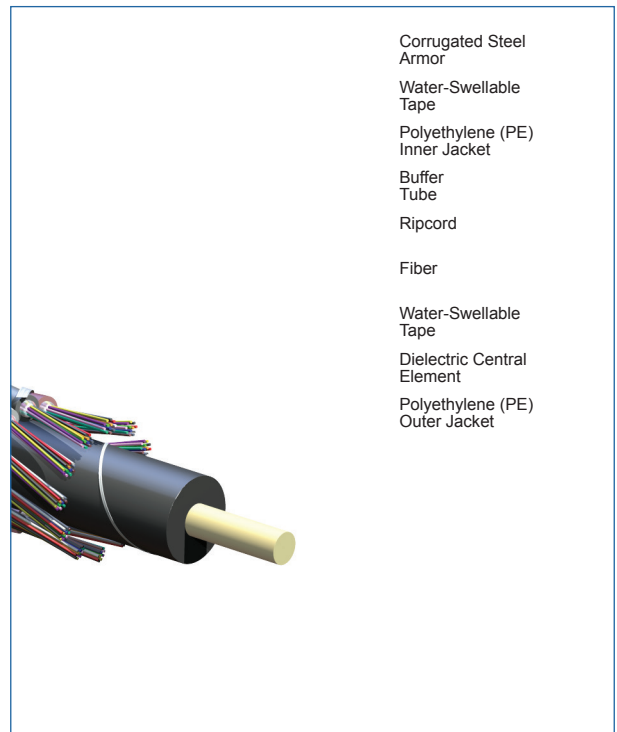
USDA Rural Development Programs

Design and Test Criteria

Telcordia GR-20, ICEA-640



Part Number: 144EU5-T4100A20



Cross Section of Part Number: 144EU5-T4100A20

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Specifications

General Specifications

Environment	Outdoor
Application	Aerial, 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
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 2	Water-swellable
Number of Ripcords	3
Tensile Strength Elements and/or Armoring - Layer 1	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	318 kg/km (213 lb/1000 ft)
Nominal Outer Diameter	19.7 mm (0.78 in)
Min. Bend Radius Installation	296 mm (11.6 in)
Min. Bend Radius Operation	197 mm (7.8 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Name	Single-mode (OS2)
Fiber Category	G.652.D
Fiber Code	E
Performance Option Code	00
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.35 dB/km / 0.35 dB/km / 0.25 dB/km

Ordering Information

Part Number	144EU5-T4100A20
Product Description	ALTOS® Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable, 144 F, Single-mode (OS2)
EAN Code	4056418185002



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