

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

432 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

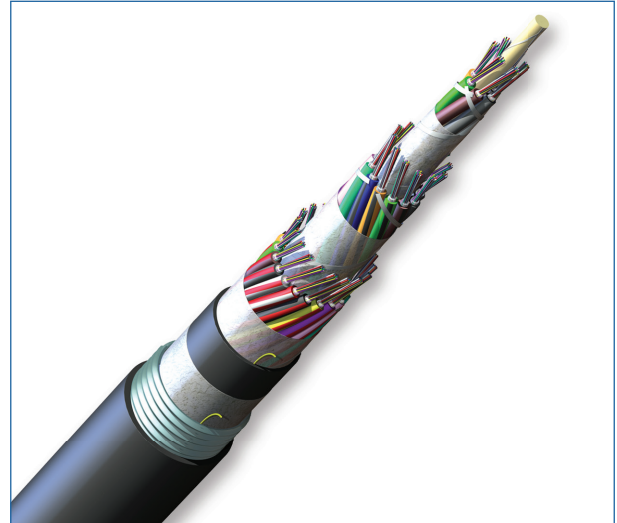
### Medium-density polyethylene jacket

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

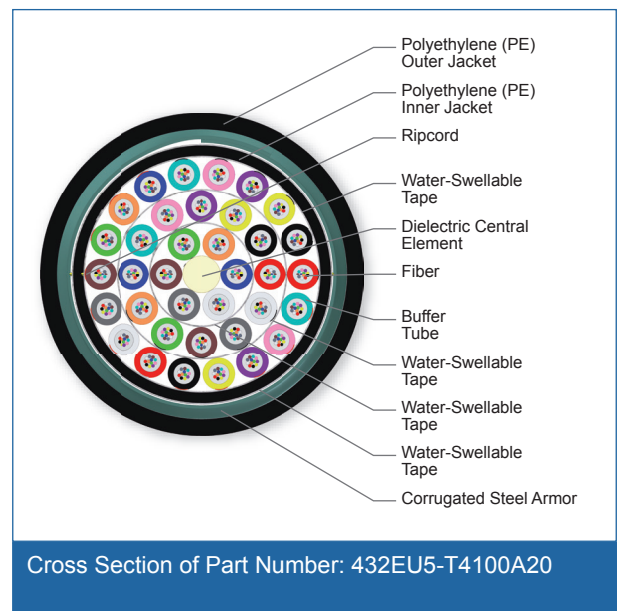
## Standards

<b>Approvals and Listings</b>	USDA Rural Development Programs
-------------------------------	---------------------------------

<b>Design and Test Criteria</b>	Telcordia GR-20, ICEA-640
---------------------------------	---------------------------



Part Number: 432EU5-T4100A20



Cross Section of Part Number: 432EU5-T4100A20

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

432 F, Single-mode (OS2)

CORNING

## 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	432
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	36
Number of Active Tubes	36
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown, Slate, White
Buffer Tube Diameter	2.5 mm (0.1 in)
Tape	Water-swellaable
Buffer Tube Color Coding, Layer 2	Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*
Tape, Layer 2	Water-swellaable
Buffer Tube Color Coding, Layer 3	Red*, Black*, Yellow*, Violet*, Rose*, Aqua*, Blue**, Orange**, Green**, Brown**, Slate**, White**, Red**, Black**, Yellow**, Violet**, Rose**, Aqua**
Tape, Layer 3	Water-swellaable
Inner Jacket Material	Polyethylene (PE)
Tape, Layer 4	Water-swellaable
Number of Ripcords	3
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor

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

Notes: Tubes 25 to 36 include a co-extruded stripe that is white for the red tube and red for all other tube colors.

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

432 F, Single-mode (OS2)

CORNING

## Cable Design

Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Maximum Fibers per Tube	12

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

Notes: Tubes 25 to 36 include a co-extruded stripe that is white for the red tube and red 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)
Weight	469 kg/km (315 lb/1000 ft)
Nominal Outer Diameter	25.4 mm (1.0 in)
Min. Bend Radius Installation	381 mm (15.0 in)
Min. Bend Radius Operation	254 mm (10.0 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

## 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

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

432 F, Single-mode (OS2)

CORNING

## Ordering Information

Part Number	432EU5-T4100A20
Product Description	ALTOS® Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable, 432 F, Single-mode (OS2)
EAN Code	4056418151380



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://www.corning.com/opcomm/trademarks). All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.

CORNING