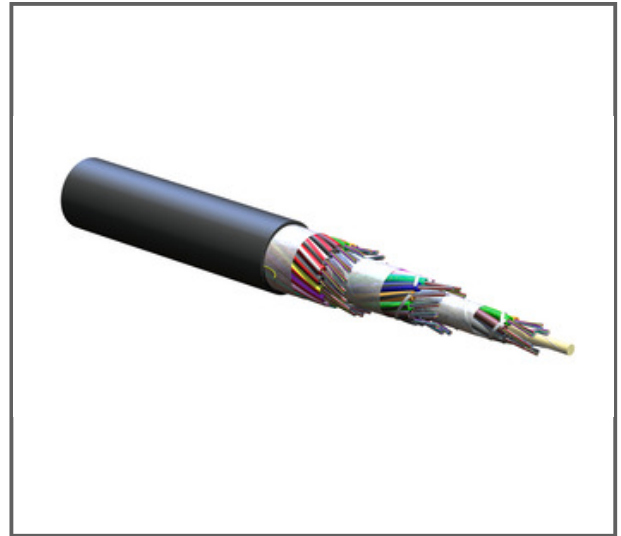


ALTOS® Loose Tube, Gel-Free Cable 432 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Part Number: 432ZU4-T4122D20

Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellaable materials, which means cable access is simple and no clean up is required. The flexible craft-friendly buffer tubes are easy to route in closures, and the SZ-stranded, loose tube design isolates fibers from installation and environmental rigors while allowing easy mid-span access. The all-dielectric cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable and easy to strip.



Features and Benefits

Gel-free waterblocking technology

Craft-friendly cable preparation

Polyethylene jacket

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

All-dielectric construction

Requires no grounding or bonding

ALTOS® Loose Tube, Gel-Free Cable 432 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Specifications

Mechanical Specifications

Max. Tensile Strength, Long-Term	890 N
Max. Tensile Strength, Short-Term	2700 N
Min. Bend Radius Installation	318 mm (12.52 in)
Min. Bend Radius Operation	212 mm (8.35 in)
Nominal Outer Diameter	21.2 mm (0.83 in)

Cable Design

Central Element	Dielectric
Fiber Count	432
Number of Ripcords	1
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown, Slate
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Buffer Tube Color Coding, Layer 2	Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White *
Buffer Tube Color Coding, Layer 3	Red*, Black*, Yellow*, Violet*, Rose*, Aqua*, Blue**, Orange**, Green**, Brown**, Slate**, White **, Red**, Black**, Yellow**, Violet**, Rose**, Aqua**
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Active Tubes	36
Number of Tube Positions	36

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CORNING

Cable Design

Tape	Water-swellaable
Tape, Layer 1	Water-swellaable
Tape, Layer 2	Water-swellaable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

Environmental Conditions

Temperature Range, Installation	-30 °C - 70 °C (-22 °F - 158 °F)
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Operation	-40 °C - 70 °C (-40 °F - 158 °F)

General Specifications

Environment	Outdoor
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	SMF-28® Ultra fiber
Application	Aerial , Duct

Ordering Information

Weight	241 kg/km
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ALTOS® Loose Tube, Gel-Free Cable 432 F, SMF-28® Ultra fiber, Single-mode (OS2)

CORNING

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Common Installations	Outdoor lashed aerial and duct, indoor when installed according to National Electrical Code® (NEC®) Article 770
Design and Test Criteria	ANSI/ICEA S-87-640

Optical Characteristics

Fiber Code	Z
Fiber Name	SMF-28® Ultra fiber
Fiber Type	Single-mode
Performance Option Code	22
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.22 dB/km
Typical Attenuation	0.32 / 0.32 / 0.18
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D/G.657.A1



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