ALTOS® Loose Tube, Gel-Free, All-Dielectric Cable with FastAccess™ Technology

192 F, Single-mode (OS2)

CORNING

Corning Cable Systems ALTOS® Cable with FastAccess™ Technology is an all-dielectric gel-free cable designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The innovative FastAccess Technology feature combined with the all-dielectric gel-free loose tube design simplifies removal of the cable jacket reducing cable end access time by at least 50 percent. Equally important is the overall reduction in risk of inadvertent fiber damage and risk to installers from sharp cable access tools. The cable is fully waterblocked using craft-friendly, water-swellable materials, which means no clean up is required. The flexible 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 midspan access. The all-dielectric gel-free cable construction requires no bonding or grounding, and these cables have a medium-density polyethylene jacket that is rugged, durable, and easy to handle. A variety of fiber types are available including 62.5 µm and 50 µm, single-mode and hybrid versions, as well as fibers with Gigabit and 10 Gigabit Ethernet performance.
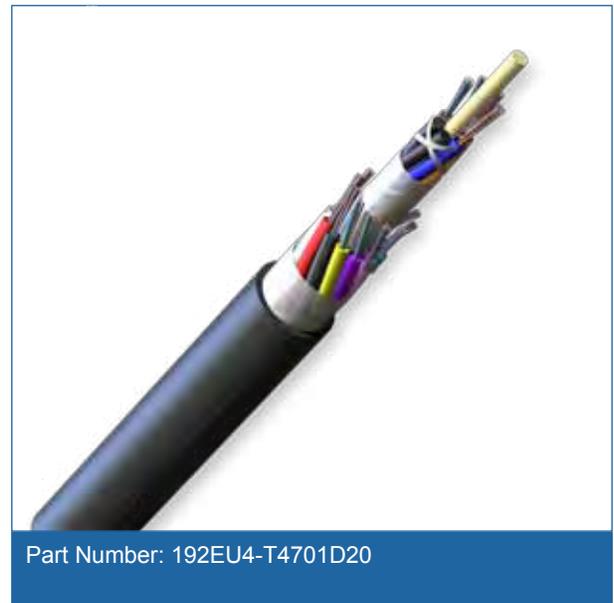
Part Number: 192EU4-T4701D20

Features and Benefits

Contains FastAccess™ Technology
Innovative cable jacket feature reduces cable end access time by at least 50 percent and reduces overall risk of inadvertent fiber damage as well as risk to installers from sharp cable access tools

Medium-density polyethylene jacket
Rugged, durable and easy to strip while providing superior protection against UV radiation, fungus, abrasion and other environmental factors

**Fully waterblocked loose tube all-dielectric gel-free design**
Simple access and no clean up

Industry-standard performance
Meets the requirements of Telcordia GR-20, Issue 3 and ICEA S-87-640

Available in 62.5 µm, 50 µm, single-mode and hybrid versions
Ready for any application including Gigabit Ethernet and 10 Gigabit Ethernet

FastAccess Locator Ridge
Water-Swellable Tape
Dielectric Central Element
Buffer Tube
Fiber
Filling Element
Water-Swellable Tape
Polyethylene (PE) Outer Jacket
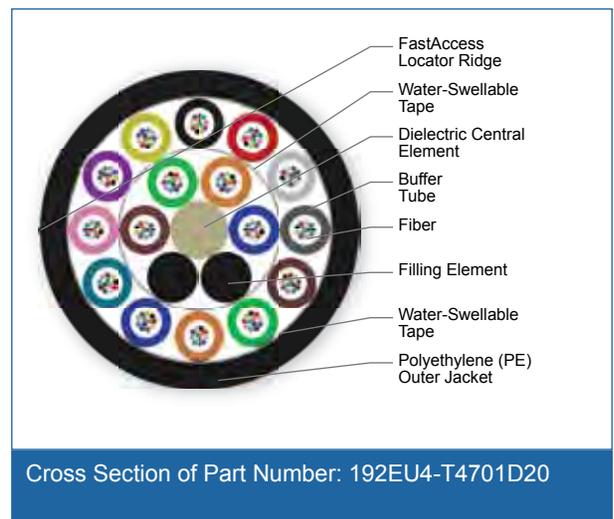
Cross Section of Part Number: 192EU4-T4701D20

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Standards

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

Specifications

General Specifications

Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
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	192
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	18
Number of Active Tubes	16
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	2
Tape	Water-swellable
Buffer Tube Color Coding, Layer 2	Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*
Tape, Layer 2	Water-swellable

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Cable Design

Number of Ripcords	1
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black
Maximum Fibers per Tube	12

Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	147 kg/km (99 lb/1000 ft)
Nominal Outer Diameter	16.0 mm (0.63 in)
Min. Bend Radius Installation	240 mm (9.4 in)
Min. Bend Radius Operation	160 mm (6.3 in)

Chemical Characteristics

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

Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

* ITU-T G.652 D compliant.
* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

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

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Ordering Information

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RoHS COMPLIANT

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