156 F, 50 µm multimode (OM3)



Corning ALTOS® all-dielectric gel-free cables are designed for outdoor and limited indoor use for campus backbones in lashed aerial and duct installations. The loose tube gel-free design is fully waterblocked using craft-friendly, water-swellable 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

#### Medium-density 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

#### **Standards**

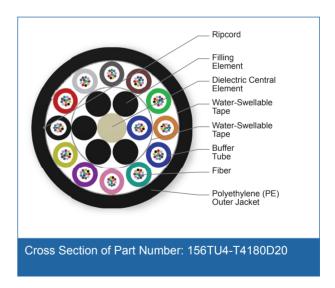
Common Installations Outdoor lashed aerial and

duct; indoor when installed according to National Electrical Code® (NEC®)

Article 770

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





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## **Specifications**

General Specifications	
Environment	Outdoor
Application	Aerial, Duct
Cable Type	Loose Tube
Product Type	Dielectric
Fiber Category	50 μm MM (OM3)

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	156
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	13
Buffer Tube Color Coding, Layer 1	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5
Tape	Water-swellable
Buffer Tube Color Coding, Layer 2	Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*
Tape, Layer 2	Water-swellable
Number of Ripcords	1
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	147 kg/km (99 lb/1000 ft)
Nominal Outer Diameter	16 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 Core Diameter	50 μm	
Fiber Category	OM3	
Fiber Code	Т	
Performance Option Code	80	
Wavelengths	850 nm / 1300 nm	
Maximum Attenuation	3.0 dB/km / 1.0 dB/km	
Serial 1 Gigabit Ethernet	1000 m / 600 m	
Serial 10 Gigabit Ethernet	300 m / -	
Min. Overfilled Launch (OFL) Bandwidth	1500 MHz*km / 500 MHz*km	
Minimum Effective Modal Bandwidth (EMB)	2000 MHz*km / -	

<sup>\*</sup> Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50  $\mu$ m multimode fiber macrobend loss  $\leq$  0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

- 2) Improved attenuation and bandwidth options available.
- 3) Bend-insensitive single-mode fibers available on request.
- 4) Contact a Corning Customer Care Representative for additional information.



156 F, 50 µm multimode (OM3)



### **Ordering Information**

Part Number	156TU4-T4180D20
Product Description	ALTOS® Loose Tube, Gel-Free Cable, 156 F, 50 $\mu m$ multimode (OM3)
EAN Code	4056418163185



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