

ALTOS® RD Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable

348 F, Single-mode (OS2)

CORNING

Corning Cable Systems ALTOS® RD Double-Jacket, Single-Armored Cables are rugged armored cables with a reduced diameter designed for direct-buried, 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

Reduced-diameter (RD) cable

Results in economical use of duct space and facilitates installation

Two jacket layers and one steel tape armor layer

Provide rodent resistance for direct-buried applications

Innovative waterblocking design

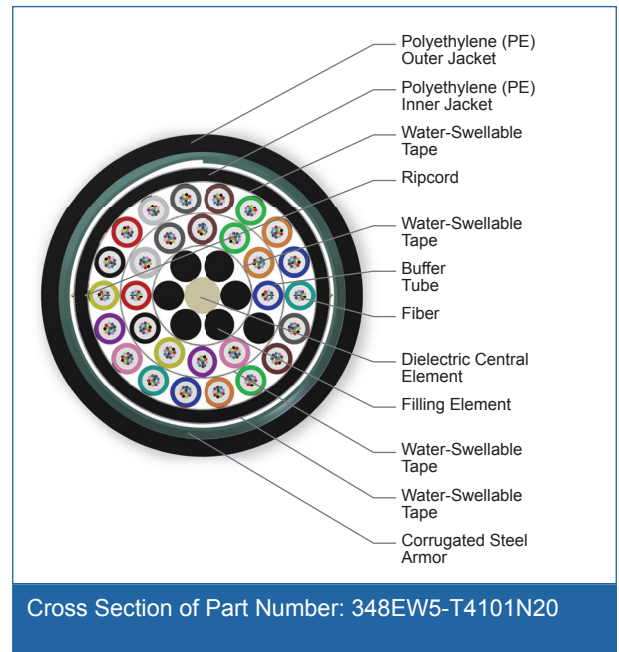
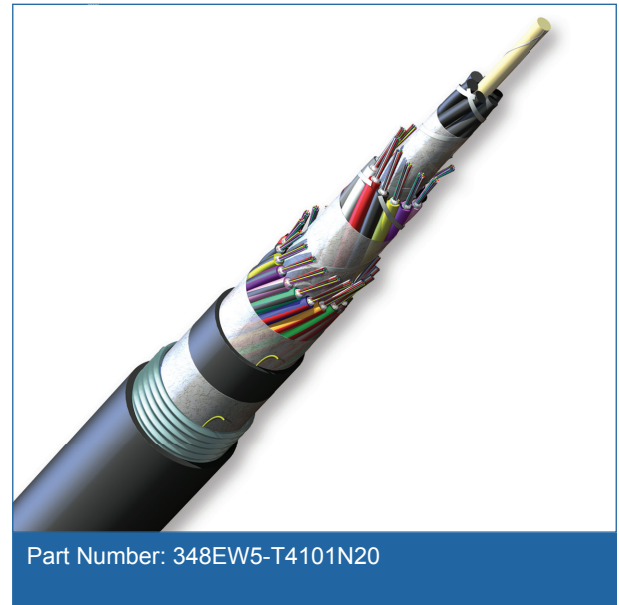
Provides efficient and craft-friendly cable preparation

Medium-density polyethylene jacket

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

Standards

Design and Test Criteria Telcordia GR-20, ICEA-640, IEC 60794-1-2



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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	348
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	29
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)
Number of Filling Elements	6
Tape	Water-swellable
Buffer Tube Color Coding, Layer 2	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose (and 1 filler)
Number of Filling Elements, Layer 2	1
Tape, Layer 2	Water-swellable
Buffer Tube Color Coding, Layer 3	Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White*, Red*, Black*, Yellow*, Violet*, Rose*, Aqua*, Blue**, Orange**, Green**, Brown**, Slate**
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members

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

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Cable Design

Inner Jacket Material	Polyethylene (PE)
Tape, Layer 3	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 2	Corrugated steel tape armor
Number of Ripcords	3
Outer Jacket Material	Polyethylene (PE)

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 Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	890 N (200 lbf)
Weight	520 kg/km (352 lb/1000 ft)
Nominal Outer Diameter	25.5 mm (1.01 in)
Min. Bend Radius Installation	386 mm (152 in)
Min. Bend Radius Operation	257 mm (101 in)

Chemical Characteristics

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

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* 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.*

Ordering Information

Part Number	348EW5-T4101N20
Product Description	ALTOS® RD Loose Tube, Gel-Filled, Double-Jacket, Single-Armored Cable, 348 F, Single-mode (OS2)



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