

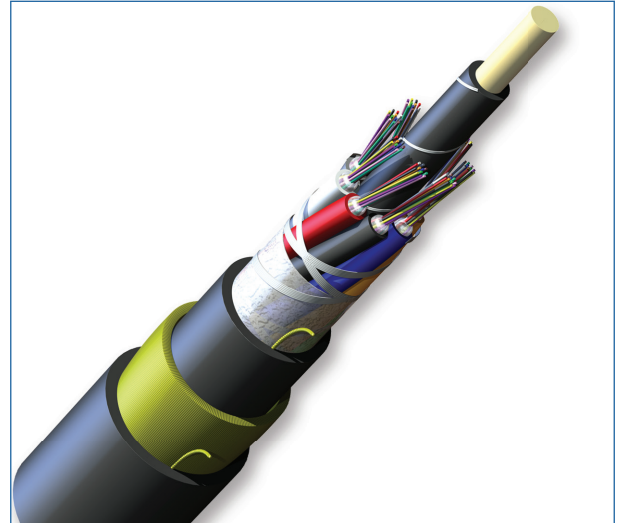
SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

96 F, 50 μ m multimode (OM2)

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Corning SOLO® ADSS optical cables are all-dielectric, self-supporting (ADSS) cables designed for easy and economical one-step installation in campus backbones with self-supporting installations where metallic messengers cannot be used. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber. The cable design can span distances in excess of 500 m (1650 ft) in NESC heavy conditions.

This cable incorporates innovative waterblocking materials, eliminating the need for traditional flooding compound and providing efficient and craft-friendly cable preparation. While the concentric, self-supporting cable design allows easy, one-step installation using standard hardware and installation methods, the SZ-stranded, loose tube design isolates optical fibers from installation and environmental rigors and facilitates mid-span access. The ADSS optical cables are also available with a proprietary track-resistant polyethylene (TRPE) jacket suitable for installation in electric field potentials up to 25 kV.



Part Number: 096TAE-T4B31A20

Features and Benefits

Loose tube design

Stable performance and compatibility with all common fiber types

Self-supporting

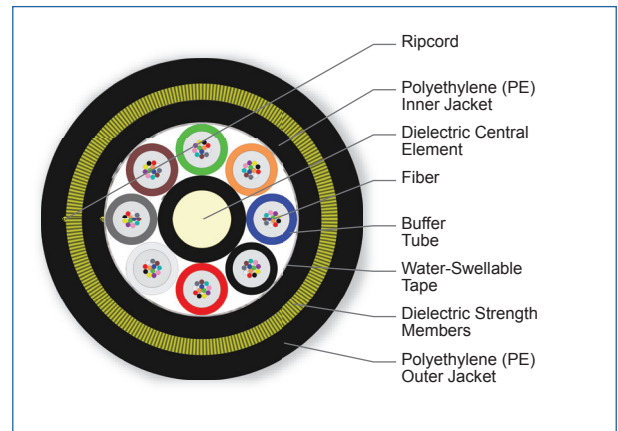
Easy, one-step installation

Track-resistant jacket available

Suitable for installations up to 25 kV electric field potential

Innovative waterblocking cable core

Provides efficient and craft-friendly cable preparation



Cross Section of Part Number: 096TAE-T4B31A20

Standards

Approvals and Listings

USDA Rural Development Programs

Common Installations

Outdoor self-supporting aerial

Design and Test Criteria

ANSI/ICEA S-87-640

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Specifications

General Specifications

Environment	Outdoor
Application	Self-Supporting
Cable Type	Loose Tube
Product Type	Self-Supporting
Fiber Category	50 µm MM (OM2)

Temperature Range

Storage	-40 °C to 75 °C (-40 °F to 167 °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	96
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	8
Number of Active Tubes	8
Buffer Tube Color Coding	Blue, Orange, Green, Brown, Slate, White, Red, Black
Buffer Tube Diameter	2.85 mm (0.11 in)
Tape	Water-swellable
Inner Jacket Material	Polyethylene (PE)
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	3
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Characteristics Cable

Weight	235 kg/km (158 lb/1000 ft)
Nominal Outer Diameter	17.8 mm (0.70 in)
Min. Bend Radius Installation	267 mm (10.5 in)

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Mechanical Characteristics Cable

Min. Bend Radius Operation	178 mm (7.0 in)
Span Code	B

Installation Conditions

Span m (ft)	Initial Installation		NESC Light		NESC Medium		NESC Heavy	
	SAG %	Tension N (lbf)	SAG %	Tension N (lbf)	SAG %	Tension N (lbf)	SAG %	Tension N (lbf)
213 (700)	1	6120 (1377)	1.3	8444 (1900)	2.7	9764 (2197)	3.6	13698 (3082)
244 (800)	1	6996 (1574)	1.3	9498 (2137)	2.7	10933 (2460)	3.7	15213 (3423)
274 (900)	1	7871 (1771)	1.4	10538 (2371)	2.8	12076 (2717)	3.8	16711 (3760)
305 (1000)	1	8742 (1967)	1.4	11564 (2602)	2.8	13204 (2971)	3.8	18160 (4086)
335 (1100)	1	9618 (2164)	1.4	12578 (2830)	2.9	14316 (3221)	3.9	19578 (4405)
366 (1200)	1	10493 (2361)	1.4	13582 (3056)	2.9	15409 (3467)	-	
396 (1300)	1	11369 (2558)	1.4	14578 (3280)	2.9	16493 (3711)	-	
427 (1400)	1	12240 (2754)	1.4	15569 (3503)	3	17564 (3952)	-	
457 (1500)	1	13116 (2951)	1.4	16551 (3724)	3	18627 (4191)	-	
488 (1600)	1	13991 (3148)	1.4	17524 (3943)	3	19680 (4428)	-	
518 (1700)	1	14867 (3345)	1.5	18498 (4162)	-		-	
549 (1800)	1	15738 (3541)	1.5	19462 (4379)	-		-	

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM2
Fiber Code	T
Performance Option Code	31
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 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.

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Fiber Specifications

Optical Characteristics (cabled)	
Serial 1 Gigabit Ethernet	750 m / 500 m
Serial 10 Gigabit Ethernet	150 m / -
Min. Overfilled Launch (OFL) Bandwidth	700 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	950 MHz*km / -

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 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.

Ordering Information

Part Number	096TAE-T4B31A20
Product Description	SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code B, 96 F, 50 µm multimode (OM2)



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