

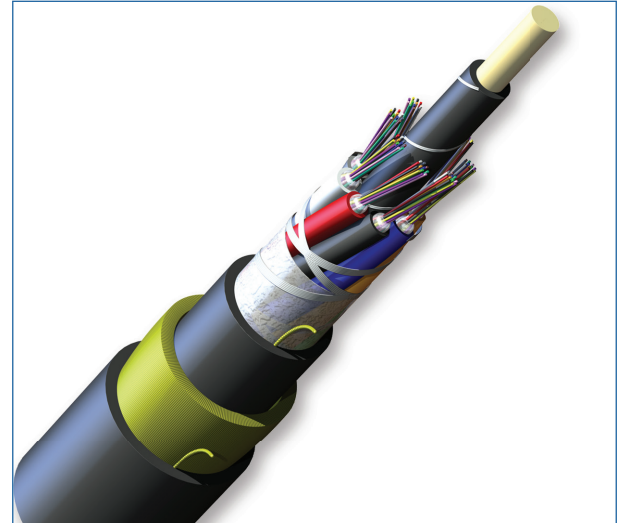
SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

96 F, 50 µm 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-T4F31A20

Features and Benefits

Loose tube design

Stable performance and compatibility with all common fiber types

Self-supporting

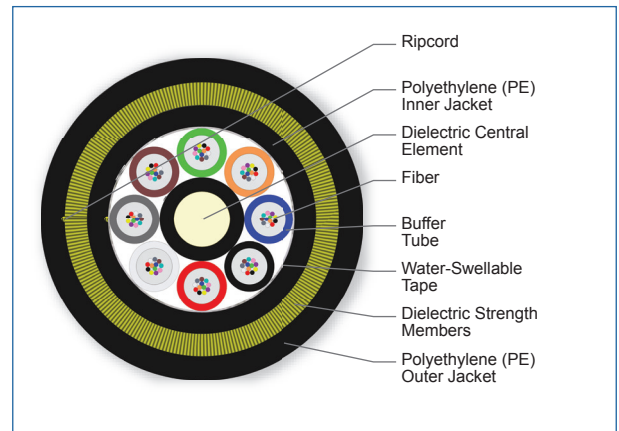
Easy, one-step installation

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-T4F31A20

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, Yellow, Violet, Rose, Aqua
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	248 kg/km (167 lb/1000 ft)
Nominal Outer Diameter	18.4 mm (0.72 in)
Min. Bend Radius Installation	276 mm (10.9 in)

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Mechanical Characteristics Cable

Min. Bend Radius Operation	184 mm (7.2 in)
Span Code	F

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)
366 (1200)	1	11076 (2492)	1.3	14582 (3281)	2.7	16627 (3741)	3.7	27964 (5167)
396 (1300)	1	12000 (2700)	1.4	15653 (3522)	2.8	17804 (4006)	3.8	24476 (5507)
427 (1400)	1	12920 (2907)	1.4	16720 (3762)	2.8	18969 (4268)	3.8	25969 (5841)
457 (1500)	1	13844 (3115)	1.4	17782 (4001)	2.8	20120 (4527)	3.9	27422 (6170)
488 (1600)	1	14769 (3323)	1.4	14237 (1883)	2.9	21258 (4783)	-	
518 (1700)	1	15689 (3530)	1.4	19876 (4472)	2.9	22391 (5038)	-	
549 (1800)	1	16613 (3738)	1.4	20916 (4706)	2.9	23516 (5291)	-	
579 (1900)	1	17538 (3946)	1.4	21951 (4939)	2.9	24631 (5542)	-	
610 (2000)	1	18458 (4153)	1.4	22978 (5170)	3	25738 (5791)	-	
640 (2100)	1	19382 (4361)	1.4	24004 (5401)	3	26840 (6039)	-	
671 (2200)	1	20307 (4569)	1.4	25022 (5630)	3	27933 (6285)	-	
701 (2300)	1	21227 (4776)	1.4	26040 (5859)	-		-	

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-T4F31A20
Product Description	SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code F, 96 F, 50 µm multimode (OM2)



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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