

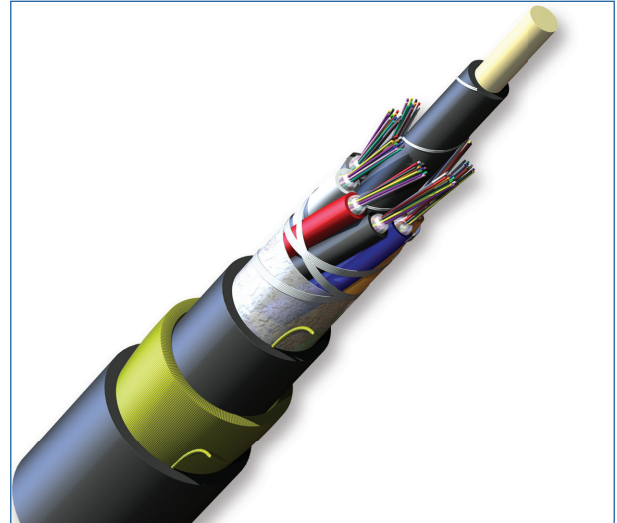
SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

96 F, 50 µm multimode (OM2)

CORNING

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-T4C31A20

Features and Benefits

Loose tube design

Stable performance and compatibility with all common fiber types

Self-supporting

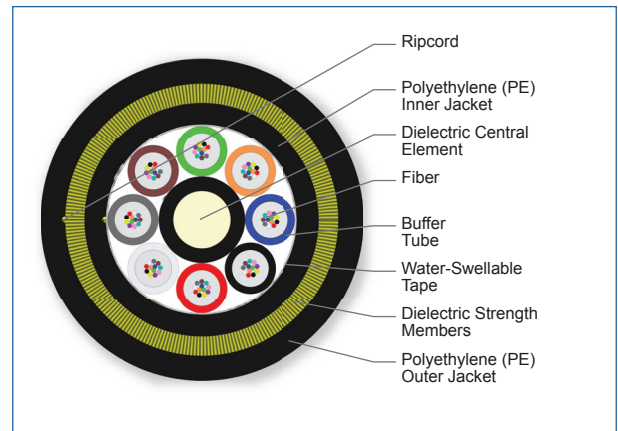
Easy, one-step installation

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-T4C31A20

Standards

Approvals and Listings	USDA Rural Development Programs
Common Installations	Outdoor self-supporting aerial
Design and Test Criteria	ANSI/ICEA S-87-640

CORNING

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

96 F, 50 µm multimode (OM2)

CORNING

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	239 kg/km (160 lb/1000 ft)
Nominal Outer Diameter	18.0 mm (0.71 in)
Min. Bend Radius Installation	270 mm (10.6 in)

CORNING

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

96 F, 50 µm multimode (OM2)

CORNING

Mechanical Characteristics Cable

Min. Bend Radius Operation	180 mm (7.1 in)
Span Code	C

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)
305 (1000)	1	8893 (2001)	1.3	11916 (2681)	2.7	13662 (3074)	3.7	18969 (4268)
335 (1100)	1	9782 (2201)	1.4	12960 (2916)	2.8	14818 (3334)	3.8	20458 (4603)
366 (1200)	1	10671 (2401)	1.4	14000 (3150)	2.8	15951 (3589)	3.8	21916 (4931)
396 (1300)	1	11560 (2601)	1.4	15027 (3381)	2.8	17076 (3842)	3.9	23351 (5254)
427 (1400)	1	12449 (2801)	1.4	16049 (3611)	2.9	18187 (4092)	-	
457 (1500)	1	13338 (3001)	1.4	17058 (3838)	2.9	19289 (4340)	-	
488 (1600)	1	14231 (3202)	1.4	18067 (4065)	2.9	20378 (4585)	-	
518 (1700)	1	15120 (3402)	1.4	19067 (4290)	3	21458 (4828)	-	
549 (1800)	1	16009 (3602)	1.4	20062 (4514)	3	22533 (5070)	-	
579 (1900)	1	16898 (3802)	1.4	21049 (4736)	3	23600 (5310)	-	
610 (2000)	1	17787 (4002)	1.5	22036 (4958)	-		-	
640 (2100)	1	18676 (4202)	1.5	23018 (5179)	-		-	
671 (2200)	1	19564 (4402)	1.5	23996 (5399)	-		-	

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

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

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.

CORNING

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

96 F, 50 µm multimode (OM2)

CORNING

Fiber Specifications

Optical Characteristics (cabled)	
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
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-T4C31A20
Product Description	SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code C, 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

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks. All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2016 Corning Optical Communications. All rights reserved.

CORNING