

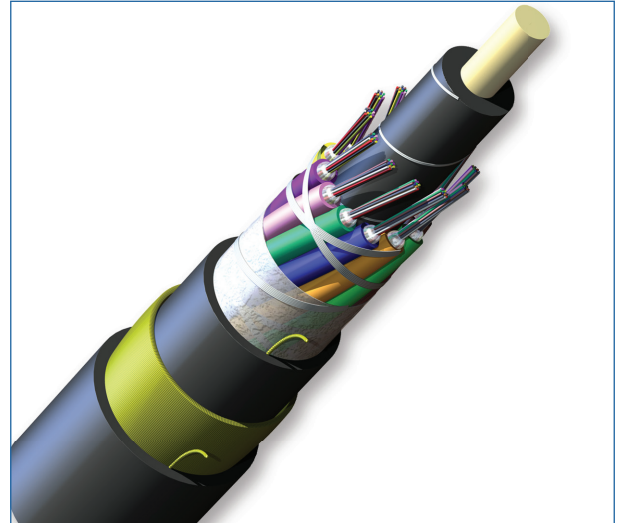
SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

144 F, 62.5 µm multimode (OM1)

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: 144KAE-T4A30A20

Features and Benefits

Loose tube design

Stable performance and compatibility with all common fiber types

Self-supporting

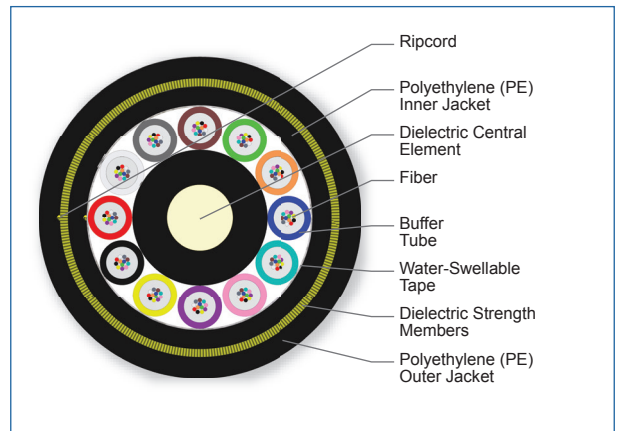
Easy, one-step installation

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: 144KAE-T4A30A20

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	62.5 µm MM (OM1)

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	144
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	12
Number of Active Tubes	12
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	329 kg/km (221 lb/1000 ft)
Nominal Outer Diameter	20.8 mm (0.82 in)
Min. Bend Radius Installation	312 mm (12.3 in)

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Mechanical Characteristics Cable

Min. Bend Radius Operation	208 mm (8.2 in)
Span Code	A

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	8502 (1913)	1.3	10498 (2362)	2.5	11631 (2617)	3.5	15404 (3466)
244 (800)	1	9716 (2186)	1.3	11836 (2663)	2.6	13053 (2937)	3.6	17147 (3858)
274 (900)	1	10929 (2459)	1.3	13160 (2961)	2.6	14458 (3253)	3.7	18853 (4242)
305 (1000)	1	12142 (2732)	1.3	14476 (3257)	2.7	15849 (3566)	3.8	20524 (4618)
335 (1100)	1	13360 (3006)	1.3	15782 (3551)	2.7	17222 (3875)	-	
366 (1200)	1	14573 (3279)	1.3	17080 (3843)	2.7	18582 (4181)	-	
396 (1300)	1	15787 (3552)	1.3	18373 (4134)	2.7	19938 (4486)	-	
427 (1400)	1	17000 (3825)	1.3	19658 (4423)	2.8	21280 (4788)	-	
457 (1500)	1	18218 (4099)	1.3	20938 (4711)	-		-	

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	62.5 µm
Fiber Category	OM1
Fiber Code	K
Performance Option Code	30
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.4 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	300 m / 550 m
Serial 10 Gigabit Ethernet	33 m / -
Min. Overfilled Launch (OFL) Bandwidth	200 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	220 MHz*km / -

Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact a Corning Customer Care Representative for additional information.

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Ordering Information

Part Number	144KAE-T4A30A20
Product Description	SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code A, 144 F, 62.5 µm multimode (OM1)



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