

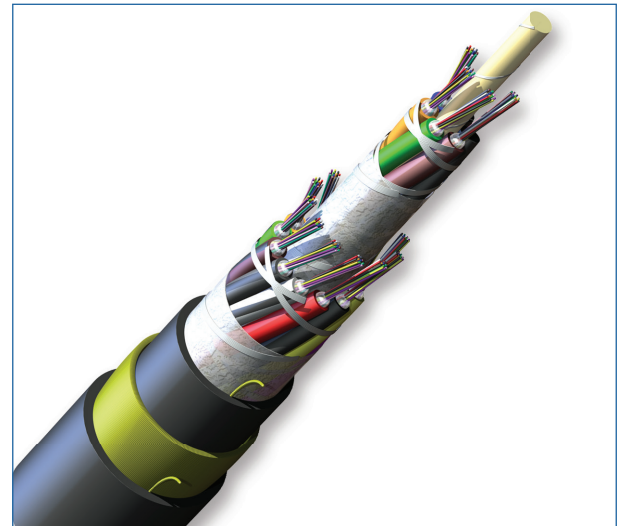
SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

192 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: 192KAE-T4830A20

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

Standards

Approvals and Listings

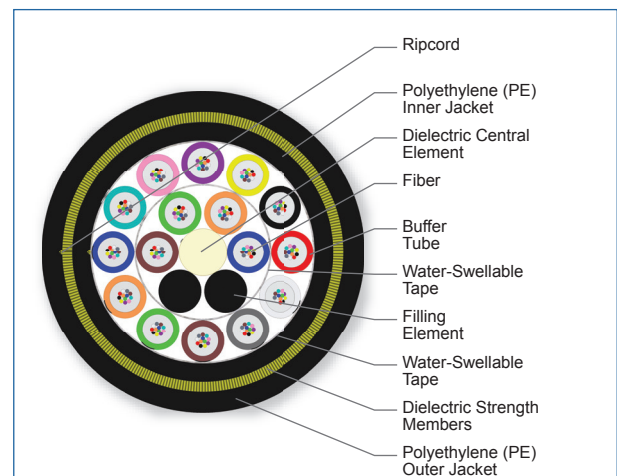
USDA Rural Development Programs

Common Installations

Outdoor self-supporting aerial

Design and Test Criteria

ANSI/ICEA S-87-640



Cross Section of Part Number: 192KAE-T4830A20

CORNING

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

192 F, 62.5 µm multimode (OM1)

CORNING

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	192
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	18
Number of Active Tubes	16
Buffer Tube Color Coding, Layer 1	Blue, Orange, Green, Brown
Buffer Tube Diameter	2.85 mm (0.11 in)
Number of Filling Elements	2
Tape	Water-swellaable
Buffer Tube Color Coding, Layer 2	Slate, White, Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*
Tape, Layer 2	Water-swellaable
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

CORNING

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

192 F, 62.5 µm multimode (OM1)

CORNING

Mechanical Characteristics Cable

Weight	332 kg/km (224 lb/1000 ft)
Nominal Outer Diameter	21.5 mm (0.85 in)
Min. Bend Radius Installation	323 mm (12.7 in)
Min. Bend Radius Operation	215 mm (8.5 in)
Span Code	8

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)
152 (500)	1	6129 (1379)	1.2	7773 (1749)	2.5	8702 (1958)	3.3	11911 (2680)
183 (600)	1	7356 (1655)	1.2	9173 (2064)	2.5	10204 (2296)	3.4	13809 (3107)
213 (700)	1	8578 (1930)	1.3	10547 (2373)	2.6	11680 (2628)	3.5	15649 (3521)
244 (800)	1	9804 (2206)	1.3	11907 (2679)	2.6	13129 (2954)	3.6	17436 (3923)
274 (900)	1	11031 (2482)	1.3	13253 (2982)	2.6	14556 (3275)	-	
305 (1000)	1	12258 (2758)	1.3	14631 (3292)	2.7	15964 (3592)	-	
335 (1100)	1	13480 (3033)	1.3	15911 (3580)	2.7	17360 (3906)	-	
366 (1200)	1	14707 (3309)	1.3	17227 (3876)	-		-	

Chemical Characteristics

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

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 / -

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.

CORNING

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

192 F, 62.5 µm multimode (OM1)

CORNING

Fiber Specifications

Optical Characteristics (cabled)

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.

Ordering Information

Part Number	192KAE-T4830A20
Product Description	SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code 8, 192 F, 62.5 µm multimode (OM1)



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