

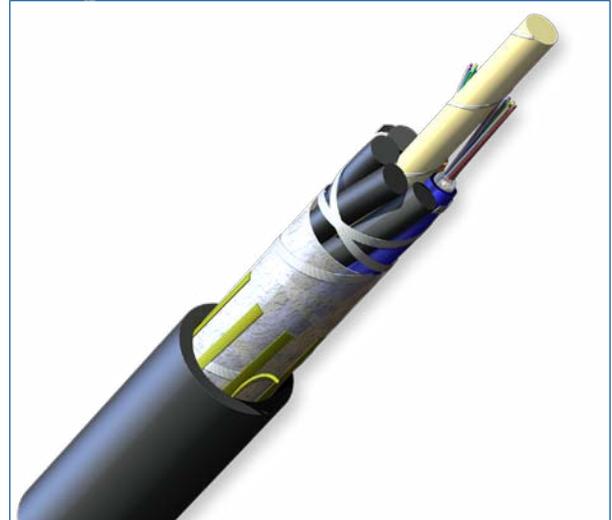
# SOLO® ADSS Short-Span, Loose Tube, Gel-Filled Cable

24 F, Single-mode (OS2)

CORNING

Corning Cable Systems SOLO® ADSS Short-Span 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 economical single-jacket design can span distances of 600 ft in NESC light conditions, 500 ft in NESC medium conditions and 300 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 midspan 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: 024EN4-T4S01A20

## Features and Benefits

### Loose tube design

Mechanical ruggedness and environmental durability

### Self-supporting

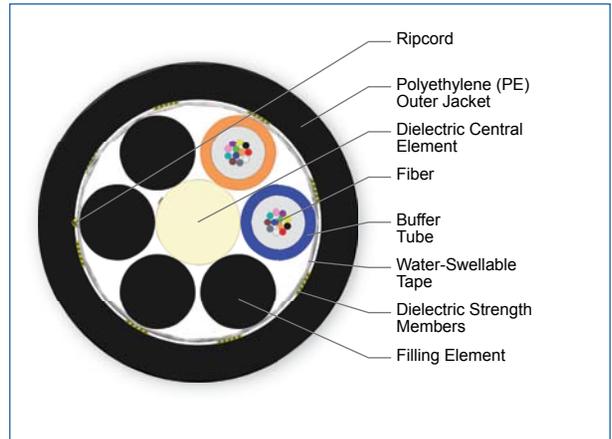
Easy, one-step installation

### Track-resistant polyethylene (TRPE) jacket available

Suitable for installations up to 25 kV electric field potential

### Innovative waterblocking design

Provides efficient and craft-friendly cable preparation



Cross Section of Part Number: 024EN4-T4S01A20

## Standards

**Approval and Listings** RDUP 7 CFR 1755.900 (RUS)

**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	Single-mode (OS2)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °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	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	2
Buffer Tube Color Coding, Layer 1	Blue, Orange
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	4
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Polyethylene (PE)
Outer Jacket Color	Black

Mechanical Characteristics Cable	
Weight	92 kg/km (62 lb/1000 ft)
Nominal Outer Diameter	10.9 mm (0.43 in)
Min. Bend Radius Installation	164 mm (6.5 in)

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## Mechanical Characteristics Cable

Min. Bend Radius Operation	109 mm (4.3 in)
PLP Dead-End Hardware Part Number	2872002

## 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)
15 (50)	1.0	174 (39)	0.4	488 (110)	1.7	694 (156)	2.4	1028 (231)
30 (100)	1.0	348 (78)	0.5	852 (191)	2.0	1179 (265)	2.9	1711 (385)
46 (150)	1.0	522 (117)	0.5	1173 (264)	2.2	1602 (360)	3.2	2300 (517)
61 (200)	1.0	696 (156)	0.5	1472 (331)	2.3	1989 (447)	3.5	2836 (637)
76 (250)	1.0	870 (195)	0.6	1754 (394)	2.5	2353 (529)	3.7	3336 (750)
91 (300)	1.0	1043 (235)	0.6	2025 (455)	2.6	2699 (607)	3.9	3810 (857)
107 (350)	1.0	1217 (274)	0.6	2287 (514)	2.7	3032 (682)	-	-
122 (400)	1.0	1391 (313)	0.6	2542 (571)	2.8	3354 (754)	-	-
137 (450)	1.0	1565 (352)	0.7	2790 (627)	2.9	3667 (814)	-	-
152 (500)	1.0	1739 (391)	0.7	3034 (682)	2.9	3972 (893)	-	-
168 (550)	1.0	1913 (430)	0.7	3274 (736)	-	-	-	-
183 (600)	1.0	2087 (469)	0.7	3509 (789)	-	-	-	-

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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# SOLO® ADSS Short-Span, Loose Tube, Gel-Filled Cable

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## Fiber Specifications

Optical Characteristics (cabled)	
Fiber Core Diameter	8.2 µm
Fiber Type	Single-mode
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions

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

## Ordering Information

Part Number	024EN4-T4S01A20
Product Description	SOLO® ADSS Short-Span, Loose Tube, Gel-Filled Cable, 24 F, Single-mode (OS2)



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