

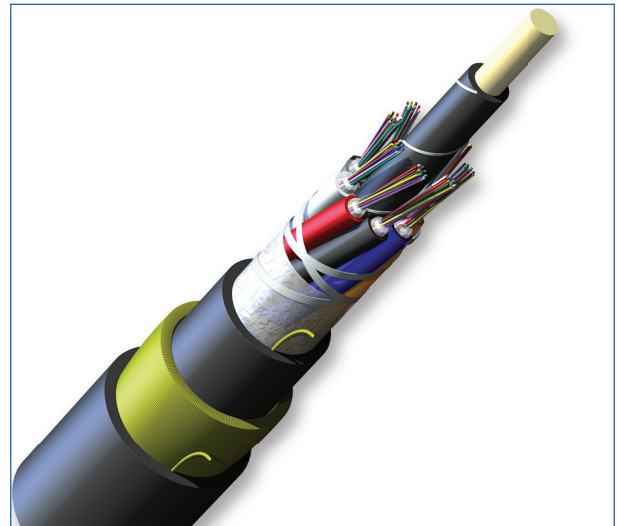
# SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

96 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: 096KAE-T4C30A20

## Features and Benefits

### Loose tube design

Stable performance and compatibility with all common fiber types

### Self-supporting

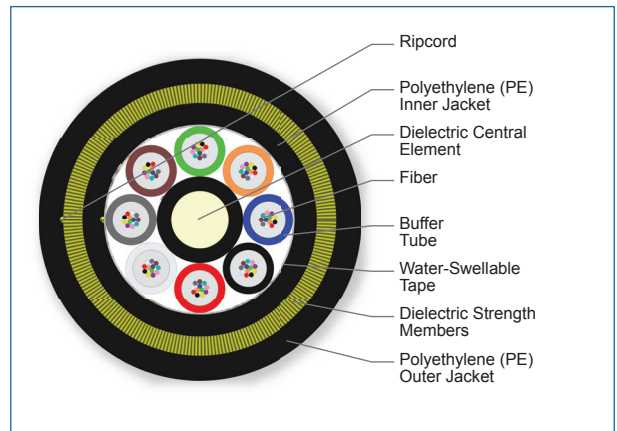
Easy, one-step installation

### 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: 096KAE-T4C30A20

## 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                                         | 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-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                                                                            |

### 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)           |

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## Mechanical Characteristics Cable

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

## Installation Conditions

| Span<br>m (ft) | Initial Installation |                    | NESC Light |                    | NESC Medium |                    | NESC Heavy |                    |
|----------------|----------------------|--------------------|------------|--------------------|-------------|--------------------|------------|--------------------|
|                | SAG<br>%             | Tension<br>N (lbf) | SAG<br>%   | Tension<br>N (lbf) | SAG<br>%    | Tension<br>N (lbf) | SAG<br>%   | Tension<br>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     | 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 |

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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## Fiber Specifications

| Optical Characteristics (cabled)        |                         |
|-----------------------------------------|-------------------------|
| 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.  
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## Ordering Information

|                     |                                                                                                  |
|---------------------|--------------------------------------------------------------------------------------------------|
| Part Number         | 096KAE-T4C30A20                                                                                  |
| Product Description | SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code C, 96 F, 62.5 µm multimode (OM1) |



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