

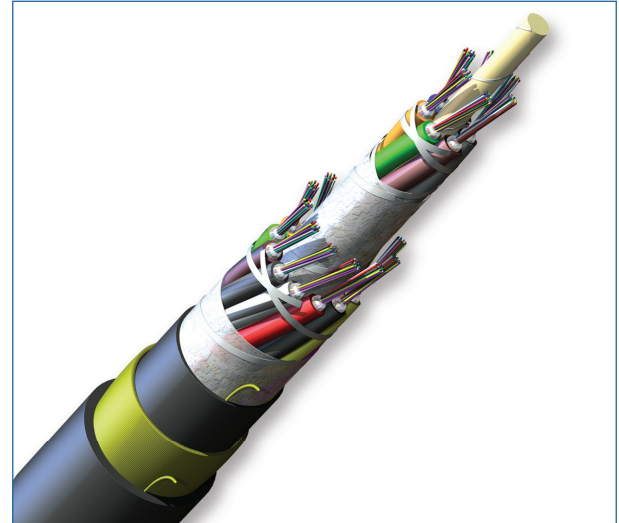
# SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable

216 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: 216KAE-T4230A20

## Features and Benefits

### Loose tube design

Stable performance and compatibility with all common fiber types

### Self-supporting

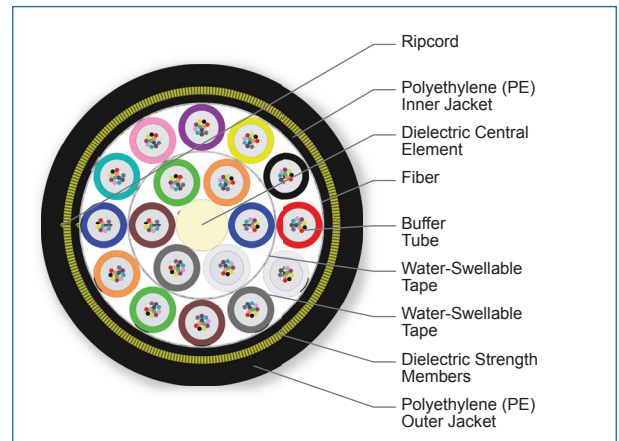
Easy, one-step installation

### 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: 216KAE-T4230A20

## Standards

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

CORNING

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

216 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                                         | 216                                                                                    |
| 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                              | 18                                                                                     |
| Buffer Tube Color Coding, Layer 1                   | Blue, Orange, Green, Brown, Slate, White                                               |
| Buffer Tube Diameter                                | 2.85 mm (0.11 in)                                                                      |
| Tape                                                | Water-swellaable                                                                       |
| Buffer Tube Color Coding, Layer 2                   | Red, Black, Yellow, Violet, Rose, Aqua, Blue*, Orange*, Green*, Brown*, Slate*, White* |
| 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

216 F, 62.5 µm multimode (OM1)

CORNING

## Mechanical Characteristics Cable

|                               |                            |
|-------------------------------|----------------------------|
| Weight                        | 281 kg/km (189 lb/1000 ft) |
| Nominal Outer Diameter        | 19.7 mm (0.78 in)          |
| Min. Bend Radius Installation | 296 mm (11.6 in)           |
| Min. Bend Radius Operation    | 197 mm (7.8 in)            |
| Span Code                     | 2                          |

## 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) |
| 61 (200)       | 1                    | 2018 (454)         | 1.2        | 2942 (662)         | 2.3         | 3396 (764)         | 3          | 4840 (1089)        |
| 91 (300)       | 1                    | 3027 (681)         | 1.2        | 4204 (946)         | 2.5         | 4796 (1079)        | 3.3        | 6680 (1503)        |
| 122 (400)      | 1                    | 4036 (908)         | 1.3        | 5418 (1219)        | 2.6         | 6120 (1377)        | 3.5        | 8387 (1887)        |
| 152 (500)      | 1                    | 5044 (1135)        | 1.3        | 6596 (1484)        | 2.7         | 7396 (1664)        | 3.7        | 10009 (2252)       |
| 183 (600)      | 1                    | 6053 (1362)        | 1.3        | 7747 (1743)        | 2.7         | 8636 (1943)        | -          |                    |
| 213 (700)      | 1                    | 7062 (1589)        | 1.3        | 8880 (1998)        | 2.8         | 9849 (2216)        | -          |                    |
| 244 (800)      | 1                    | 8071 (1816)        | 1.4        | 9996 (2249)        | -           |                    | -          |                    |

## 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

216 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         | 216KAE-T4230A20                                                                                   |
| Product Description | SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable, Span Code 2, 216 F, 62.5 µm multimode (OM1) |
| EAN Code            | 4056418162942                                                                                     |



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](http://www.corning.com/opcomm)

A complete listing of the trademarks of Corning Optical Communications is available at [www.corning.com/opcomm/trademarks](http://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