

# SOLO® ADSS Loose Tube, Gel-Filled, Dual-Jacket Cable 96 F, Single-mode (OS2)

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## Part Number: 096EAE-T4B01A20

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.

## Features and Benefits

### Loose tube design

Stable performance and compatibility with all common fiber types

### Self-supporting

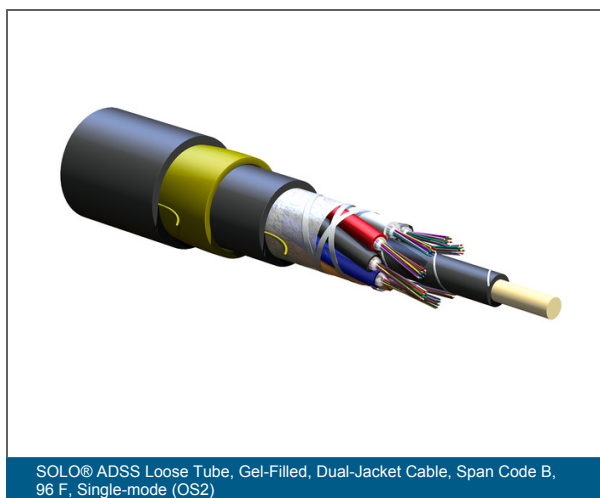
Easy, one-step installation

### 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



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## Specifications

### General Specifications

|                |                       |
|----------------|-----------------------|
| Cable Type     | Loose Tube            |
| Environment    | Outdoor               |
| Product Type   | Self-Supporting, ADSS |
| Fiber Category | Single-mode (OS2)     |
| Cable geometry | Other                 |

### Standards

|                          |                                                           |
|--------------------------|-----------------------------------------------------------|
| RoHS                     | Free of hazardous substances according to RoHS 2011/65/EU |
| Approvals and Listings   | USDA Rural Development Programs                           |
| Common Installations     | Outdoor self-supporting aerial                            |
| Design and Test Criteria | ANSI/ICEA S-87-640                                        |

### Environmental Conditions

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Temperature Range, Installation | -30 °C to 70 °C (-22 °F to 158 °F ) |
| Temperature Range, Operation    | -40 °C to 70 °C (-40 °F to 158 °F ) |
| Temperature Range, Storage      | -40 °C to 75 °C (-40 °F to 167 °F ) |

### Cable Design

|                                                     |                                                      |
|-----------------------------------------------------|------------------------------------------------------|
| Central Element                                     | Dielectric                                           |
| Fiber Count                                         | 96                                                   |
| Number of Ripcords                                  | 3                                                    |
| Outer Jacket Color                                  | Black                                                |
| Outer Jacket Material                               | Polyethylene (PE)                                    |
| Tensile Strength Elements and/or Armoring - Layer 1 | Dielectric strength members                          |
| Buffer Tube Color                                   | Blue, Orange, Green, Brown, Slate, White, Red, Black |
| Buffer Tube Diameter                                | 2.85 mm (0.11 in)                                    |

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## Cable Design

|                          |                                                                                  |
|--------------------------|----------------------------------------------------------------------------------|
| Inner Jacket Material    | Polyethylene (PE)                                                                |
| Number of Active Tubes   | 8                                                                                |
| Number of Tube Positions | 8                                                                                |
| Tape                     | Water-swellable                                                                  |
| Fiber Coloring           | Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua |
| Fibers per Tube          | 12                                                                               |
| Color Code Standards     | Telcordia                                                                        |

## Mechanical Specifications

|                                 |                   |
|---------------------------------|-------------------|
| Nominal Outer Diameter          | 17.8 mm (0.7 in ) |
| Span Code                       | B                 |
| Min. Bend Diameter Installation | 534 mm (21.02 in) |
| Min. Bend Diameter Operation    | 356 mm (14.02 in) |

## Optical Characteristics

|                         |                                   |
|-------------------------|-----------------------------------|
| Fiber Code              | E                                 |
| Performance Option Code | 01                                |
| Fiber Category          | OS2                               |
| Fiber Type              | Single-mode (OS2) / 250 µm        |
| Fiber Name              | Single-mode (OS2)                 |
| Maximum Attenuation     | 0.4 dB/km / 0.4 dB/km / 0.3 dB/km |
| Wavelengths             | 1310 nm / 1383 nm / 1550 nm       |
| Fiber Compliance        | ITU-T G.652.D                     |

## Dimensions

|              |                               |
|--------------|-------------------------------|
| Cable Weight | 235 kg/km (157.91 lb/1000 ft) |
|--------------|-------------------------------|

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| Installation Characteristics |                      |                       |            |                       |             |                       |            |                        |
|------------------------------|----------------------|-----------------------|------------|-----------------------|-------------|-----------------------|------------|------------------------|
|                              | Initial Installation |                       | NESC Light |                       | NESC Medium |                       | NESC Heavy |                        |
| Span                         | SAG                  | Tension               | SAG        | Tension               | SAG         | Tension               | SAG        | Tension                |
| Fiber Count 96               |                      |                       |            |                       |             |                       |            |                        |
| 15 m (49.2 ft)               | 1 %                  | 439 N (98.7 lbf)      | 0.6 %      | 764 N (171.8 lbf)     | 1.7 %       | 995 N (223.7 lbf)     | 2.1 %      | 1,535 N (345.1 lbf)    |
| 30 m (98.4 ft)               | 1 %                  | 878 N (197.4 lbf)     | 0.7 %      | 1,471 N (330.7 lbf)   | 1.8 %       | 1,879 N (422.4 lbf)   | 2.3 %      | 2,808 N (631.3 lbf)    |
| 46 m (150.9 ft)              | 1 %                  | 1,317 N (296.1 lbf)   | 0.7 %      | 2,141 N (481.3 lbf)   | 1.9 %       | 2,697 N (606.3 lbf)   | 2.4 %      | 3,951 N (888.2 lbf)    |
| 61 m (200.1 ft)              | 1 %                  | 1,756 N (394.8 lbf)   | 0.7 %      | 2,782 N (625.4 lbf)   | 2 %         | 3,470 N (780.1 lbf)   | 2.6 %      | 5,010 N (1,126.3 lbf)  |
| 76 m (249.3 ft)              | 1 %                  | 2,195 N (493.5 lbf)   | 0.7 %      | 3,403 N (765 lbf)     | 2 %         | 4,210 N (946.5 lbf)   | 2.7 %      | 6,010 N (1,351.1 lbf)  |
| 91 m (298.5 ft)              | 1 %                  | 2,633 N (591.9 lbf)   | 0.7 %      | 4,007 N (900.8 lbf)   | 2.1 %       | 4,923 N (1,106.7 lbf) | 2.8 %      | 6,964 N (1,565.6 lbf)  |
| 107 m (351 ft)               | 1 %                  | 3,072 N (690.6 lbf)   | 0.7 %      | 4,598 N (1,033.7 lbf) | 2.1 %       | 5,615 N (1,262.3 lbf) | 2.9 %      | 7,882 N (1,771.9 lbf)  |
| 122 m (400.2 ft)             | 1 %                  | 3,511 N (789.3 lbf)   | 0.7 %      | 5,177 N (1,163.8 lbf) | 2.2 %       | 6,289 N (1,413.8 lbf) | 2.9 %      | 8,771 N (1,971.8 lbf)  |
| 137 m (449.4 ft)             | 1 %                  | 3,950 N (888 lbf)     | 0.8 %      | 5,747 N (1,292 lbf)   | 2.2 %       | 6,949 N (1,562.2 lbf) | 3 %        | 9,635 N (2,166 lbf)    |
| 152 m (498.6 ft)             | 1 %                  | 4,389 N (986.7 lbf)   | 0.8 %      | 6,307 N (1,417.9 lbf) | 2.3 %       | 7,596 N (1,707.7 lbf) | 3.1 %      | 10,476 N (2,355.1 lbf) |
| 168 m (551 ft)               | 1 %                  | 4,828 N (1,085.4 lbf) | 0.8 %      | 6,861 N (1,542.4 lbf) | 2.3 %       | 8,231 N (1,850.4 lbf) | 3.1 %      | 11,300 N (2,540.3 lbf) |
| 183 m (600.2 ft)             | 1 %                  | 5,267 N (1,184.1 lbf) | 0.8 %      | 7,408 N (1,665.4 lbf) | 2.3 %       | 8,856 N (1,990.9 lbf) | 3.2 %      | 12,106 N (2,721.5 lbf) |
| 198 m (649.4 ft)             | 1 %                  | 5,706 N (1,282.8 lbf) | 0.8 %      | 7,949 N (1,787 lbf)   | 2.4 %       | 9,473 N (2,129.6 lbf) | 3.2 %      | 12,898 N (2,899.6 lbf) |

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| Installation Characteristics |                      |                           |            |                           |             |                           |            |                           |
|------------------------------|----------------------|---------------------------|------------|---------------------------|-------------|---------------------------|------------|---------------------------|
|                              | Initial Installation |                           | NESC Light |                           | NESC Medium |                           | NESC Heavy |                           |
| Span                         | SAG                  | Tension                   | SAG        | Tension                   | SAG         | Tension                   | SAG        | Tension                   |
| 213 m (698.6 ft)             | 1 %                  | 6,145 N<br>(1,381.5 lbf)  | 0.8 %      | 8,485 N<br>(1,907.5 lbf)  | 2.4 %       | 10,082 N<br>(2,266.5 lbf) | 3.3 %      | 13,677 N<br>(3,074.7 lbf) |
| 229 m (751.1 ft)             | 1 %                  | 6,584 N<br>(1,480.1 lbf)  | 0.8 %      | 9,017 N<br>(2,027.1 lbf)  | 2.4 %       | 10,683 N<br>(2,401.6 lbf) | 3.3 %      | 14,444 N<br>(3,247.1 lbf) |
| 244 m (800.3 ft)             | 1 %                  | 7,023 N<br>(1,578.8 lbf)  | 0.8 %      | 9,544 N<br>(2,145.6 lbf)  | 2.4 %       | 11,278 N<br>(2,535.4 lbf) | 3.4 %      | 15,199 N<br>(3,416.9 lbf) |
| 259 m (849.5 ft)             | 1 %                  | 7,462 N<br>(1,677.5 lbf)  | 0.8 %      | 10,067 N<br>(2,263.2 lbf) | 2.5 %       | 11,867 N<br>(2,667.8 lbf) | 3.4 %      | 15,945 N<br>(3,584.6 lbf) |
| 274 m (898.7 ft)             | 1 %                  | 7,900 N<br>(1,776 lbf)    | 0.8 %      | 10,586 N<br>(2,379.8 lbf) | 2.5 %       | 12,450 N<br>(2,798.9 lbf) | 3.5 %      | 16,682 N<br>(3,750.3 lbf) |
| 290 m (951.2 ft)             | 1 %                  | 8,339 N<br>(1,874.7 lbf)  | 0.8 %      | 11,103 N<br>(2,496.1 lbf) | 2.5 %       | 13,028 N<br>(2,928.8 lbf) | 3.5 %      | 17,410 N<br>(3,913.9 lbf) |
| 305 m<br>(1,000.4 ft)        | 1 %                  | 8,778 N<br>(1,973.4 lbf)  | 0.8 %      | 11,616 N<br>(2,611.4 lbf) | 2.5 %       | 13,602 N<br>(3,057.8 lbf) | 3.6 %      | 18,130 N<br>(4,075.8 lbf) |
| 320 m<br>(1,049.6 ft)        | 1 %                  | 9,217 N<br>(2,072.1 lbf)  | 0.8 %      | 12,126 N<br>(2,726 lbf)   | 2.5 %       | 14,171 N<br>(3,185.8 lbf) | 3.6 %      | 18,842 N<br>(4,235.9 lbf) |
| 335 m<br>(1,098.8 ft)        | 1 %                  | 9,656 N<br>(2,170.8 lbf)  | 0.8 %      | 12,634 N<br>(2,840.2 lbf) | 2.6 %       | 14,736 N<br>(3,312.8 lbf) | 3.6 %      | 19,548 N<br>(4,394.6 lbf) |
| 351 m<br>(1,151.3 ft)        | 1 %                  | 10,095 N<br>(2,269.4 lbf) | 0.8 %      | 13,139 N<br>(2,953.8 lbf) | 2.6 %       | 15,297 N<br>(3,438.9 lbf) | 3.7 %      | 20,248 N<br>(4,551.9 lbf) |
| 366 m<br>(1,200.5 ft)        | 1 %                  | 10,534 N<br>(2,368.1 lbf) | 0.8 %      | 13,642 N<br>(3,066.8 lbf) | 2.6 %       | 15,855 N<br>(3,564.3 lbf) | 3.7 %      | 20,941 N<br>(4,707.7 lbf) |
| 381 m<br>(1,249.7 ft)        | 1 %                  | 10,973 N<br>(2,466.8 lbf) | 0.9 %      | 14,143 N<br>(3,179.5 lbf) | 2.6 %       | 16,409 N<br>(3,688.9 lbf) | 3.7 %      | 21,628 N<br>(4,862.2 lbf) |
| 396 m<br>(1,298.9 ft)        | 1 %                  | 11,412 N<br>(2,565.5 lbf) | 0.9 %      | 14,642 N<br>(3,291.7 lbf) | 2.6 %       | 16,960 N<br>(3,812.8 lbf) | 3.8 %      | 22,310 N<br>(5,015.5 lbf) |

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| Installation Characteristics |                      |                           |            |                           |             |                           |            |                           |
|------------------------------|----------------------|---------------------------|------------|---------------------------|-------------|---------------------------|------------|---------------------------|
|                              | Initial Installation |                           | NESC Light |                           | NESC Medium |                           | NESC Heavy |                           |
| Span                         | SAG                  | Tension                   | SAG        | Tension                   | SAG         | Tension                   | SAG        | Tension                   |
| 411 m<br>(1,348.1 ft)        | 1 %                  | 11,851 N<br>(2,664.2 lbf) | 0.9 %      | 15,139 N<br>(3,403.4 lbf) | 2.7 %       | 17,509 N<br>(3,936.2 lbf) | 3.8 %      | 22,987 N<br>(5,167.7 lbf) |
| 427 m<br>(1,400.6 ft)        | 1 %                  | 12,290 N<br>(2,762.9 lbf) | 0.9 %      | 15,634 N<br>(3,514.7 lbf) | 2.7 %       | 18,054 N<br>(4,058.7 lbf) | 3.8 %      | 23,660 N<br>(5,319 lbf)   |
| 442 m<br>(1,449.8 ft)        | 1 %                  | 12,729 N<br>(2,861.6 lbf) | 0.9 %      | 16,128 N<br>(3,625.7 lbf) | 2.7 %       | 18,596 N<br>(4,180.6 lbf) | 3.9 %      | 24,327 N<br>(5,468.9 lbf) |
| 457 m (1,499 ft)             | 1 %                  | 13,167 N<br>(2,960.1 lbf) | 0.9 %      | 16,620 N<br>(3,736.3 lbf) | 2.7 %       | 19,136 N<br>(4,301.9 lbf) | 3.9 %      | 24,990 N<br>(5,618 lbf)   |
| 472 m<br>(1,548.2 ft)        | 1 %                  | 13,606 N<br>(3,058.8 lbf) | 0.9 %      | 17,110 N<br>(3,846.5 lbf) | 2.7 %       | 19,674 N<br>(4,422.9 lbf) | 3.9 %      | 25,649 N<br>(5,766.1 lbf) |
| 488 m<br>(1,600.6 ft)        | 1 %                  | 14,045 N<br>(3,157.4 lbf) | 0.9 %      | 17,599 N<br>(3,956.4 lbf) | 2.7 %       | 20,209 N<br>(4,543.2 lbf) | 3.9 %      | 26,304 N<br>(5,913.4 lbf) |
| 503 m<br>(1,649.8 ft)        | 1 %                  | 14,484 N<br>(3,256.1 lbf) | 0.9 %      | 18,087 N<br>(4,066.1 lbf) | 2.7 %       | 20,742 N<br>(4,663 lbf)   |            |                           |
| 518 m (1,699 ft)             | 1 %                  | 14,923 N<br>(3,354.8 lbf) | 0.9 %      | 18,573 N<br>(4,175.4 lbf) | 2.8 %       | 21,274 N<br>(4,782.6 lbf) |            |                           |
| 533 m<br>(1,748.2 ft)        | 1 %                  | 15,362 N<br>(3,453.5 lbf) | 0.9 %      | 19,058 N<br>(4,284.4 lbf) | 2.8 %       | 21,803 N<br>(4,901.5 lbf) |            |                           |
| 549 m<br>(1,800.7 ft)        | 1 %                  | 15,801 N<br>(3,552.2 lbf) | 0.9 %      | 19,542 N<br>(4,393.2 lbf) | 2.8 %       | 22,330 N<br>(5,020 lbf)   |            |                           |
| 564 m<br>(1,849.9 ft)        | 1 %                  | 16,240 N<br>(3,650.9 lbf) | 0.9 %      | 20,025 N<br>(4,501.8 lbf) | 2.8 %       | 22,855 N<br>(5,138 lbf)   |            |                           |
| 579 m<br>(1,899.1 ft)        | 1 %                  | 16,679 N<br>(3,749.6 lbf) | 0.9 %      | 20,507 N<br>(4,610.2 lbf) | 2.8 %       | 23,379 N<br>(5,255.8 lbf) |            |                           |
| 594 m<br>(1,948.3 ft)        | 1 %                  | 17,118 N<br>(3,848.3 lbf) | 0.9 %      | 20,988 N<br>(4,718.3 lbf) | 2.8 %       | 23,900 N<br>(5,372.9 lbf) |            |                           |

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| Installation Characteristics |                      |                           |            |                           |             |                           |            |         |
|------------------------------|----------------------|---------------------------|------------|---------------------------|-------------|---------------------------|------------|---------|
|                              | Initial Installation |                           | NESC Light |                           | NESC Medium |                           | NESC Heavy |         |
| Span                         | SAG                  | Tension                   | SAG        | Tension                   | SAG         | Tension                   | SAG        | Tension |
| 610 m<br>(2,000.8 ft)        | 1 %                  | 17,557 N<br>(3,947 lbf)   | 0.9 %      | 21,468 N<br>(4,826.2 lbf) | 2.8 %       | 24,421 N<br>(5,490.1 lbf) |            |         |
| 625 m (2,050 ft)             | 1 %                  | 17,995 N<br>(4,045.4 lbf) | 0.9 %      | 21,947 N<br>(4,933.9 lbf) | 2.8 %       | 24,939 N<br>(5,606.5 lbf) |            |         |
| 640 m<br>(2,099.2 ft)        | 1 %                  | 18,434 N<br>(4,144.1 lbf) | 0.9 %      | 22,425 N<br>(5,041.3 lbf) | 2.8 %       | 25,456 N<br>(5,722.7 lbf) |            |         |
| 655 m<br>(2,148.4 ft)        | 1 %                  | 18,873 N<br>(4,242.8 lbf) | 0.9 %      | 22,902 N<br>(5,148.6 lbf) | 2.9 %       | 25,972 N<br>(5,838.7 lbf) |            |         |
| 671 m<br>(2,200.9 ft)        | 1 %                  | 19,312 N<br>(4,341.5 lbf) | 0.9 %      | 23,378 N<br>(5,255.6 lbf) | 2.9 %       | 26,487 N<br>(5,954.5 lbf) |            |         |



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