

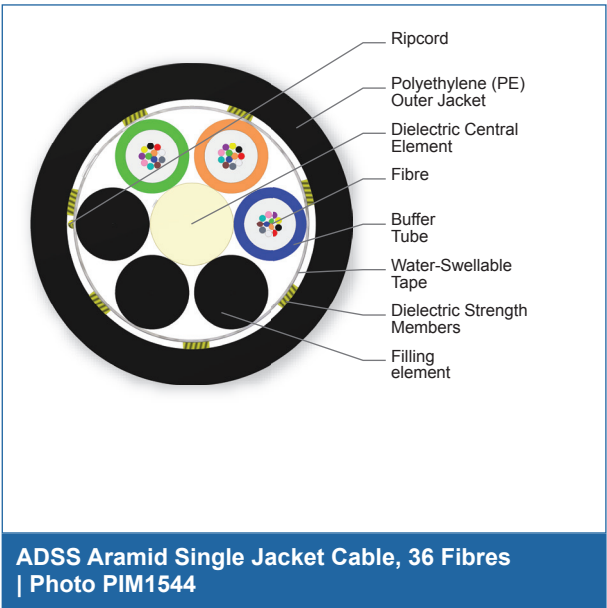
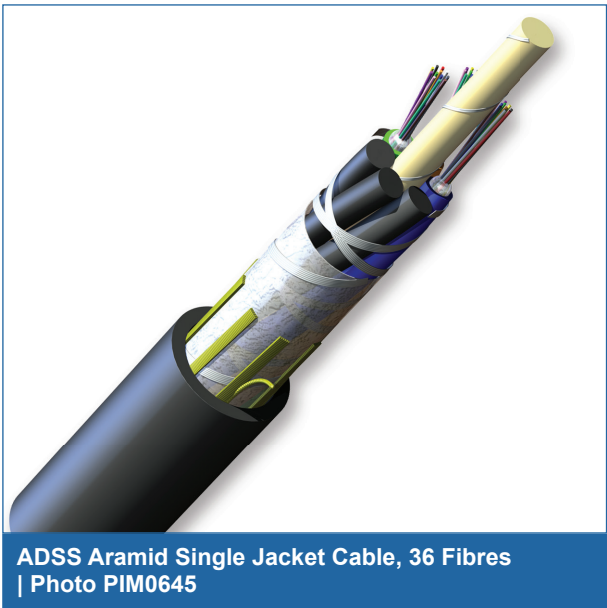
# ADSS Aramid Single Jacket Cable up to 200m span LT 2.3

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## Features and Benefits

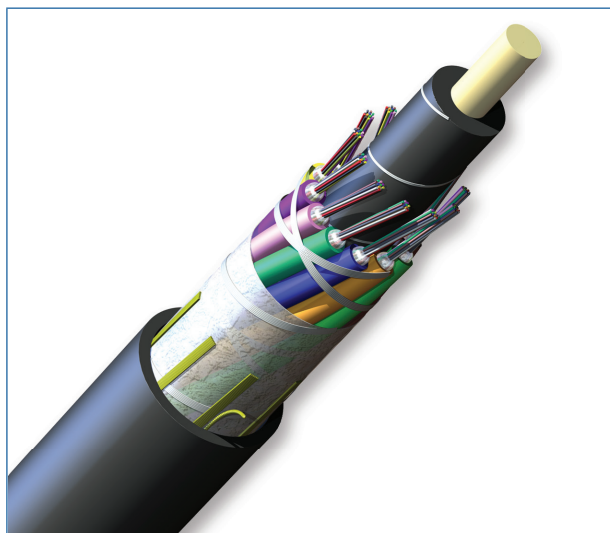
|                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| All dielectric self-supporting aerial cable                                                                                                              |
| Non-metallic strength members over the cable core                                                                                                        |
| Dry cable core by swellable elements                                                                                                                     |
| Single-layer stranded construction up to 144 fibres                                                                                                      |
| Single-mode fibres fully compliant to standard ITU G.652 D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range |
| Telcordia standard for fibre and loose tube coloring                                                                                                     |
| Cable design according to CORNING standard                                                                                                               |

Corning single jacket ADSS cables for medium span applications 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 fibre. The economical single-jacket design can span distances of 100m in NESC heavy conditions, 150m in NESC medium conditions and 200m in NESC light 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 fibres from installation and environmental rigors and facilitates mid-span access. These ADSS optical cables are available with HDPE jacket for installation in telecom applications.

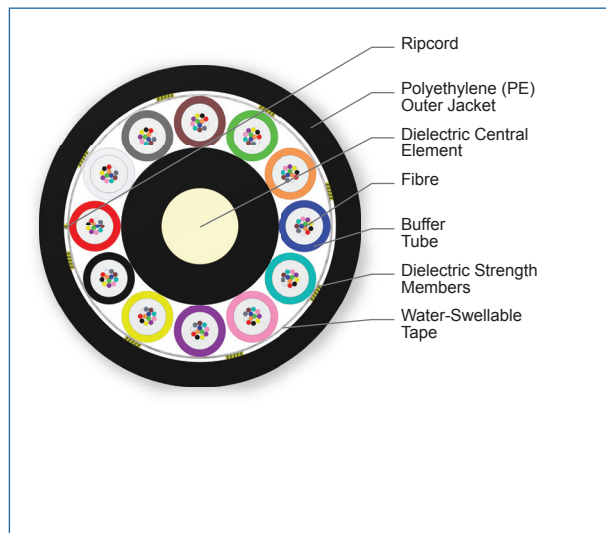


# ADSS Aramid Single Jacket Cable up to 200m span LT 2.3

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ADSS Aramid Single Jacket Cable, 144 Fibres  
| Photo PIM0650



ADSS Aramid Single Jacket Cable, 144 Fibres  
| Photo PIMtbd

## Specifications

| Temperature Range         |                 |
|---------------------------|-----------------|
| Installation and assembly | -5 °C to 50 °C  |
| Operation                 | -40 °C to 70 °C |
| Storage                   | -40 °C to 70 °C |

| Mechanical Characteristics Cable |                          |                        |           |                        |                               |                            |
|----------------------------------|--------------------------|------------------------|-----------|------------------------|-------------------------------|----------------------------|
| Fibre count                      | Number of tube positions | Number of active tubes | Weight    | Nominal Outer Diameter | Min. Bend Radius Installation | Min. Bend Radius Operation |
| 12 - 72                          | 6                        | 1 - 6                  | 89 kg/km  | 10.8 mm                | 162 mm                        | 216 mm                     |
| 96                               | 8                        | 8                      | 113 kg/km | 12.2 mm                | 183 mm                        | 244 mm                     |
| 144                              | 12                       | 12                     | 170 kg/km | 15.1 mm                | 227 mm                        | 302 mm                     |

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

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## Installation Conditions

|              | Initial Installation |         | NESC Light |         | NESC Medium |         | NESC Heavy |         |
|--------------|----------------------|---------|------------|---------|-------------|---------|------------|---------|
| Span         | SAG                  | Tension | SAG        | Tension | SAG         | Tension | SAG        | Tension |
| 12-72 Fibres |                      |         |            |         |             |         |            |         |
| 100 m        | 1.5 %                | 725 N   | 3.53 %     | 2267 N  | 3.93 %      | 2884 N  | 4.71 %     | 4258 N  |
| 150 m        | 1.5 %                | 1087 N  | 3.86 %     | 3121 N  | 4.34 %      | 3935 N  |            |         |
| 200 m        | 1.5 %                | 1450 N  | 4.11 %     | 3907 N  |             |         |            |         |
| 96 Fibre     |                      |         |            |         |             |         |            |         |
| 100 m        | 1.5 %                | 924 N   | 3.46 %     | 2585 N  | 3.8 %       | 3161 N  | 4.54 %     | 4618 N  |
| 150 m        | 1.5 %                | 1385 N  | 3.77 %     | 3568 N  | 4.17 %      | 4326 N  |            |         |
| 200 m        | 1.5 %                | 1847 N  | 4.01 %     | 4477 N  |             |         |            |         |
| 144 Fibre    |                      |         |            |         |             |         |            |         |
| 100 m        | 1.5 %                | 1391 N  | 3.34 %     | 3030 N  | 3.68 %      | 3656 N  | 4.42 %     | 5206 N  |
| 150 m        | 1.5 %                | 2087 N  | 3.61 %     | 4214 N  | 4.02 %      | 5033 N  |            |         |
| 200 m        | 1.5 %                | 2782 N  | 3.82 %     | 5318 N  |             |         |            |         |

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## Transmission Performance

| Single-mode                             |                                  |                                                                                |                                                                                |
|-----------------------------------------|----------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Fibre name                              | SMF-28® Ultra fibre              | SMF28e+®                                                                       | SMF28e+® LL                                                                    |
| Fibre Category                          | OS2                              | OS2                                                                            | OS2                                                                            |
| Fibre core diameter (µm)                | 8.2                              | 8.2                                                                            | 8.2                                                                            |
| Mode-Field Diameter at 1310 nm (µm)     | 9.2                              | 9.2                                                                            | 9.2                                                                            |
| Fibre code                              | Z                                | E                                                                              | L                                                                              |
| Coating diameter (µm)                   | 242                              | 242                                                                            | 242                                                                            |
| Cladding diameter (µm)                  | 125                              | 125                                                                            | 125                                                                            |
| Wavelengths (nm)                        | 1310/1383/1550                   | 1310/1383/1550                                                                 | 1310/1383/1550                                                                 |
| Maximum attenuation (dB/km)             | 0.34/0.34/0.20                   | 0.36/0.36/0.22                                                                 | 0.34/0.34/0.20                                                                 |
| Typical attenuation (dB/km)             | 0.32/0.32/0.18                   | 0.32/0.32/0.18                                                                 | 0.32/0.32/0.18                                                                 |
| Cable cutoff wavelength (nm)            | 1260                             | 1260                                                                           | 1260                                                                           |
| Dispersion @ 1625 nm (ps / (nm * km))   | ≤22.0                            | ≤22.0                                                                          | ≤22.0                                                                          |
| Dispersion @ 1550 nm (ps / (nm * km))   | ≤18.0                            | ≤18.0                                                                          | ≤18.0                                                                          |
| PMD Link Design Value (PS / √km)        | ≤0.04                            | ≤0.06                                                                          | ≤0.04                                                                          |
| PMD maximum individual fibre (PS / √km) | ≤0.1                             | ≤0.1                                                                           | ≤0.1                                                                           |
| Standards in compliance                 | ITU-T G.652 D and ITU-T G.657 A1 | TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2 | TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2 |

\* Zero Dispersion Wavelength  $\lambda_0$ : 1304nm ≤  $\lambda_0$  ≤ 1324nm

\* Zero Dispersion Slope  $S_0$  ≤ 0.092 ps / (nm<sup>2</sup> \* km)

# ADSS Aramid Single Jacket Cable up to 200m span LT 2.3

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## Ordering Information

Note: For other options, please contact our Customer Care at [cc.emea@corning.com](mailto:cc.emea@corning.com) or 00800 2676 4641.

|                      |                      |                      |                      |          |          |          |          |          |                      |                      |          |          |          |
|----------------------|----------------------|----------------------|----------------------|----------|----------|----------|----------|----------|----------------------|----------------------|----------|----------|----------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <b>G</b> | <b>4</b> | <b>-</b> | <b>3</b> | <b>M</b> | <input type="text"/> | <input type="text"/> | <b>A</b> | <b>2</b> | <b>0</b> |
| <b>1</b>             | <b>2</b>             | <b>3</b>             | <b>4</b>             | <b>5</b> | <b>6</b> | <b>7</b> | <b>8</b> | <b>9</b> | <b>10</b>            |                      |          |          |          |

**1** Select fibre count.  
004-144

**2** Select fibre code.  
E = Single-mode (OS2) SMF-28e+®  
L = Single-mode (OS2) SMF-28e+LL®  
Z = Single-mode (OS2) SMF-28 ULTRA®

**3** Defines cable type.  
G/A = ADSS Single Jacket Cable

**4** Select jacket.  
4 = PE jacket

**5** Defines fibre placement.  
T = 12 fibres/buffer tube (standard)  
4 = 4 fibres/buffer tube  
6 = 6 fibres/buffer tube  
8 = 8 fibres/buffer tube

**6** Select length marking.  
3 = Marking in metres

**7** Defines tensile strength.  
M = ADSS Medium-Span Cable

**8** Select performance option code.  
22 = SMF-28e+  
20 = SMF-28e+LL or SMF-28 ULTRA

**9** Defines cable type.  
G/A = ADSS Single Jacket Cable

**10** Defines special requirements.  
20 = No special requirements



Corning Optical Communications GmbH & Co. KG · Leipziger Strasse 121 · 10117 Berlin, GERMANY

00 800 2676 4641 · FAX: +49 30 5303 2335 · [www.corning.com/opcomm/emea](http://www.corning.com/opcomm/emea)

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