

# SOLO® ADSS Medium-Span Cables, 2-144 Fibers

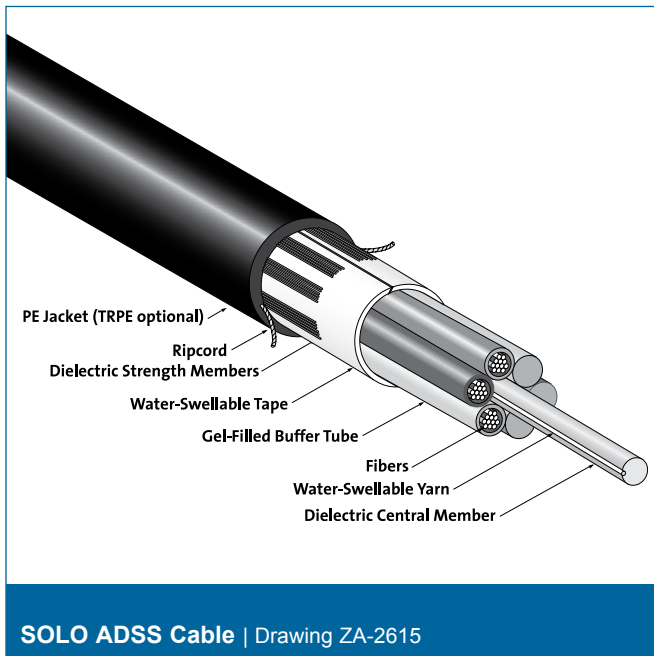
A Corning Cable  
Systems Product

## features and benefits |

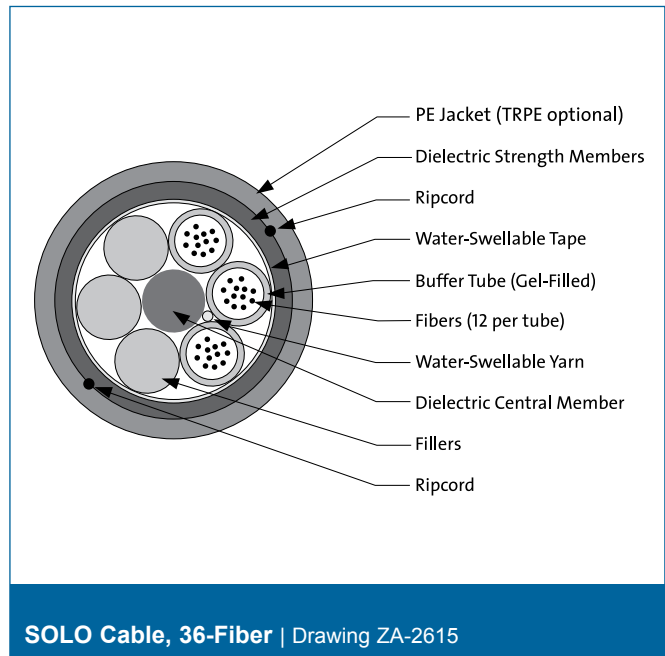
<b>Loose tube design</b>	Stable performance and compatibility with all common fiber types
<b>Self-supporting</b>	Easy, one-step installation
<b>Track-resistant jacket available</b>	Suitable for installations up to 25 kV electric field potential
<b>Innovative waterblocking cable core</b>	Provides efficient and craft-friendly cable preparation

Corning Cable Systems SOLO® ADSS Medium-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 up to 800 ft in NESC light conditions, 650 ft in NESC medium conditions and 450 ft in NESC heavy conditions (*see Sag and Tension chart*). 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 medium-span cables are

(continued)



SOLO ADSS Cable | Drawing ZA-2615

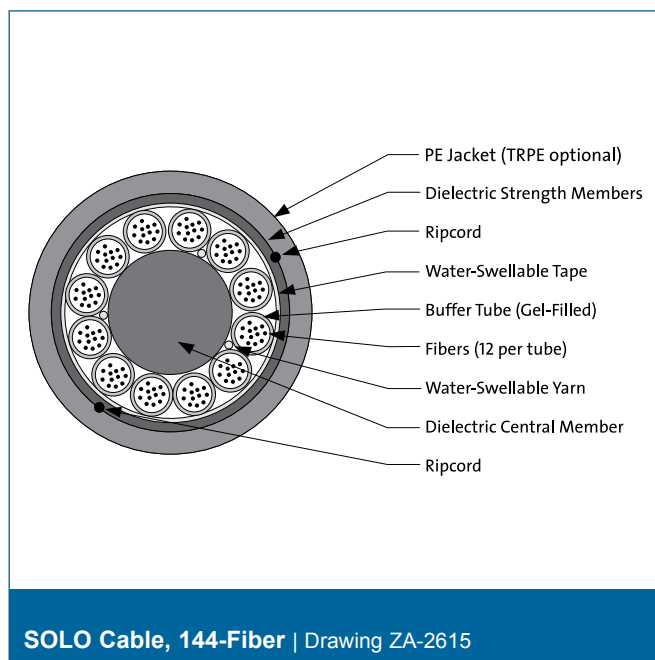
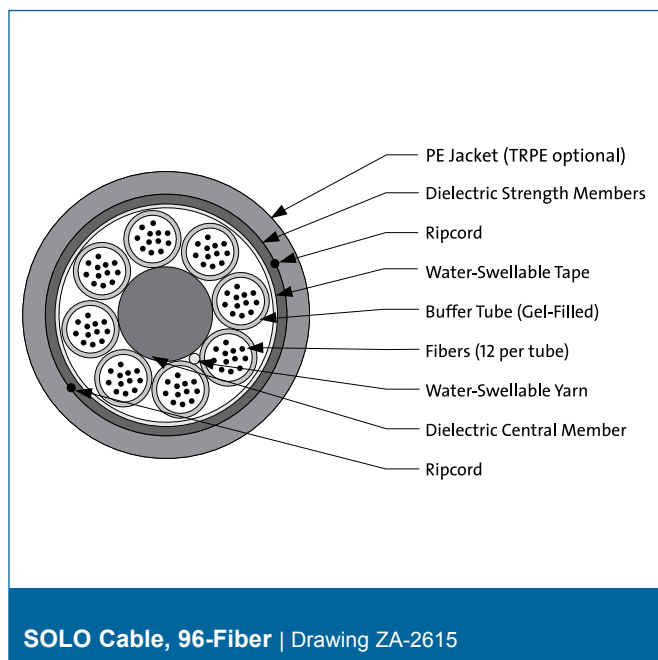


SOLO Cable, 36-Fiber | Drawing ZA-2615

# SOLO<sup>®</sup> ADSS Medium-Span Cables, 2-144 Fibers

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also available with a proprietary track-resistant polyethylene (TRPE) jacket suitable for installation in electric field potentials up to 25 kV.



# SOLO® ADSS Medium-Span Cables, 2-144 Fibers

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## specifications |

<b>Temperatures</b>	Storage:	-40° to +70°C (-40° to +158°F)
	Installation:	-30° to +70°C (-22° to +158°F)
	Operation:	-40° to +70°C (-40° to +158°F)

**Approvals and Listings** RDUP 7 CFR 1755.900 (formerly RUS)

**Common Installations** Outdoor self-supporting aerial

**Design and Test Criteria** ANSI/ICEA S-87-640

**Preformed Line Products® (PLP) Dead-End Product** FIBERLIGN® dead-end for ADSS medium tension dead-end

*Corning Cable Systems recommends storing cable in a proper temperature environment prior to installation to allow the cable temperature to meet installation temperature range specifications for best installation results.*

Fiber Count	Number of Tube Positions	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius		PLP Dead-End Hardware Part Number
				Loaded cm (in)	Installed cm (in)	
2-72	6	97 (65)	11.3 (0.45)	17.0 (6.7)	11.3 (4.5)	28729491
73-96	8	130 (87)	13.1 (0.52)	19.7 (7.8)	13.1 (5.2)	2872101
97-144	12	201 (135)	16.4 (0.65)	24.6 (9.8)	16.4 (6.5)	2872104

# SOLO<sup>®</sup> ADSS Medium-Span Cables, 2-144 Fibers

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specifications | (continued)

Sag and Tension Information									
Fiber Count	Installation		NESC Light		NESC Medium		NESC Heavy		
	Span m (ft)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)
2-72	107 (350)	1.0	1283 (288)	0.6	2493 (560)	2.5	3337 (750)	3.7	4754 (1069)
	122 (400)	1.0	1466 (330)	0.6	2777 (624)	2.6	3698 (831)	3.8	5248 (1180)
	137 (450)	1.0	1649 (371)	0.6	3053 (686)	2.7	4048 (910)	3.9	5726 (1287)
	152 (500)	1.0	1833 (412)	0.6	3324 (747)	2.7	4389 (987)	–	–
	168 (550)	1.0	2016 (453)	0.7	3590 (807)	2.8	4723 (1062)	–	–
	183 (600)	1.0	2199 (494)	0.7	3851 (866)	2.8	5050 (1135)	–	–
	198 (650)	1.0	2382 (536)	0.7	4108 (924)	2.9	5371 (1208)	–	–
	213 (700)	1.0	2566 (577)	0.7	4362 (981)	–	–	–	–
	229 (750)	1.0	2749 (618)	0.7	4613 (1037)	–	–	–	–
	244 (800)	1.0	2932 (659)	0.7	4861 (1093)	–	–	–	–
73-96	107 (350)	1.0	1715 (385)	0.6	3027 (680)	2.4	3891 (875)	3.4	5476 (1231)
	122 (400)	1.0	1960 (441)	0.7	3379 (760)	2.5	4322 (972)	3.6	6055 (1361)
	137 (450)	1.0	2205 (496)	0.7	3724 (837)	2.5	4741 (1066)	3.7	6616 (1487)
	152 (500)	1.0	2450 (551)	0.7	4063 (916)	2.6	5151 (1158)	3.8	7161 (1610)
	168 (550)	1.0	2695 (606)	0.7	4395 (988)	2.6	5551 (1248)	–	–
	183 (600)	1.0	2939 (661)	0.7	4723 (1062)	2.7	5945 (1336)	–	–
	198 (650)	1.0	3184 (716)	0.7	5046 (1134)	2.7	6331 (1423)	–	–
	213 (700)	1.0	3429 (771)	0.7	5365 (1206)	2.8	6712 (1509)	–	–
	229 (750)	1.0	3674 (826)	0.7	5680 (1277)	–	–	–	–
	244 (800)	1.0	3919 (881)	0.7	5993 (1347)	–	–	–	–

Note: Longer spans available upon request.

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specifications | (continued)

Sag and Tension Information									
Fiber Count	Installation		NESC Light		NESC Medium		NESC Heavy		
	Span m (ft)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)
97-144	107 (350)	1.0	2644 (594)	0.8	3801 (855)	2.5	4519 (1016)	3.5	6058 (1362)
	122 (400)	1.0	3022 (679)	0.8	4258 (957)	2.5	5036 (1132)	3.7	6714 (1509)
	137 (450)	1.0	3399 (764)	0.8	4708 (1058)	2.6	5542 (1246)	3.8	7352 (1653)
	152 (500)	1.0	3777 (849)	0.8	5152 (1158)	2.7	6040 (1358)	–	–
	168 (550)	1.0	4155 (934)	0.8	5591 (1257)	2.7	6529 (1468)	–	–
	183 (600)	1.0	4533 (1019)	0.8	6025 (1354)	2.7	7012 (1576)	–	–
	198 (650)	1.0	4910 (1104)	0.8	6455 (1451)	2.8	7488 (1683)	–	–
	213 (700)	1.0	5288 (1189)	0.9	6882 (1547)	–	–	–	–
	229 (750)	1.0	5666 (1274)	0.9	7306 (1643)	–	–	–	–

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# SOLO® ADSS Medium-Span Cables, 2-144 Fibers

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## transmission performance |

Optical Fiber Type (µm)	62.5 Multimode	50 Multimode	50 Multimode	50 Multimode	Single-mode**	Single-mode**
ISO/IEC 11801 Nomenclature	OM1	OM2	OM3	OM4	OS2	OS2
Fiber Code	K	T	T	T	E	E
Performance Option Code	30	31	80	90	01	00
Wavelength (nm)	850/1300	850/1300	850/1300	850/1300	1310/1383/1550	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	3.0/1.0	3.0/1.0	3.0/1.0	0.4/0.4/0.3	0.35/0.35/0.25
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	700/500	1500/500	3500/500	- / - / -	- / - / -
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ -	950/ -	2000/ -	4700/ -	- / - / -	- / - / -
Serial 1 Gigabit Ethernet Distance (m)	300/550	750/600	1000/600	1000/600	5000 / - / -	5000 / - / -
Serial 10 Gigabit Ethernet Distance (m)	33/ -	150/ -	300/ -	550*/ -	10000/ - /40000	10000/ - /40000

\* Assumes 1.0 dB maximum total connector/splice loss.

\*\* ITU 652.D compliant.

### Notes:

- 1) Improved attenuation and bandwidth options available.
- 2) Bend-insensitive single-mode fibers available on request.
- 3) Contact a Corning Cable Systems Customer Service Representative for additional information.
- 4) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.

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ordering information | Contact Customer Service at 800-743-2671 for other options.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N	<input type="checkbox"/>	-	T	<input type="checkbox"/>	M	<input type="checkbox"/>	<input type="checkbox"/>	A	2	0
1	2	3	4	5	6		7	8	9	10	11	12	13	14

**|1-3**  
Select fiber count  
(002 to 144).

**|4**  
Select fiber code  
(see Transmission  
Performance table).

**|5 / 12**  
Defines cable type.  
N / A = SOLO® Single-  
Jacket Cable  
*See Note 1.*

**|6**  
Select jacket.  
4 = PE jacket (standard)  
A = TRPE jacket

**|7**  
Defines fiber placement.  
T = 12 fiber/buffer tube  
(standard)

**|8**  
Select length markings.  
3 = Markings in meters  
4 = Markings in feet  
(standard)

**|9**  
Defines tensile strength.  
M = SOLO Medium-Span  
Cable

**|10-11**  
Select performance  
option code (see  
Transmission  
Performance table).

**|13-14**  
Defines special  
requirements.  
20 = No special  
requirements

*Notes:*  
1) Use with SOLO Single-Jacket  
Cable and is not a reference to  
"Not Applicable."

2) Use with buffer tube fan-out  
kit for direct termination  
applications.

3) Please contact Corning Cable  
Systems Engineering Services  
at 800-743-2671 for installation  
advice or information regarding  
mounting hardware.

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notes |

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