

SOLO® ADSS Short-Span Cables, 2-144 Fibers

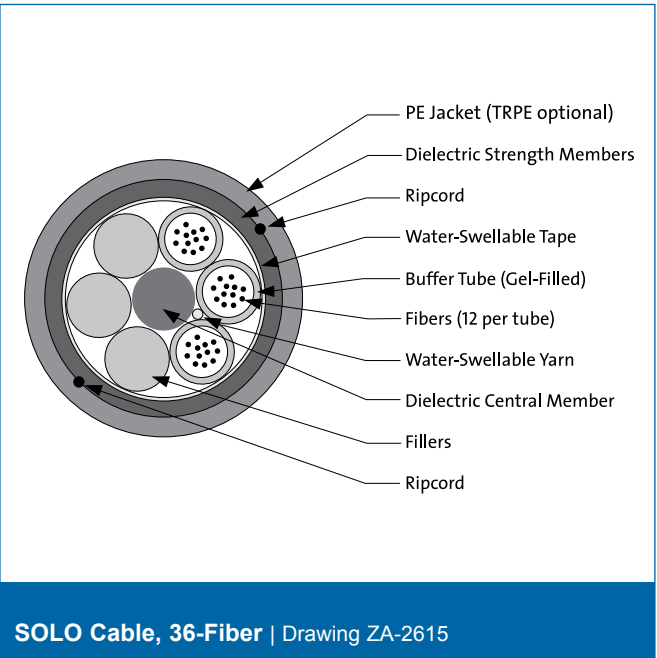
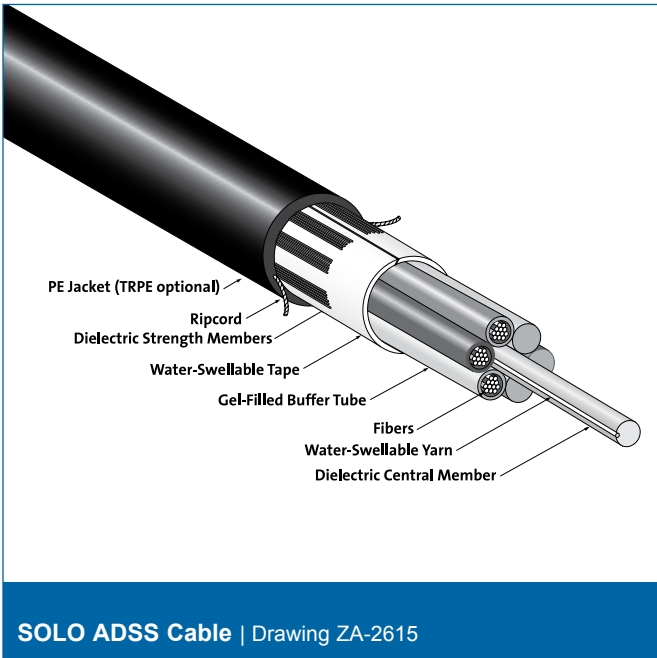
A Corning Cable
Systems Product

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

Corning Cable Systems SOLO® ADSS Short-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 600 ft in NESC light conditions, 500 ft in NESC medium conditions and 300 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

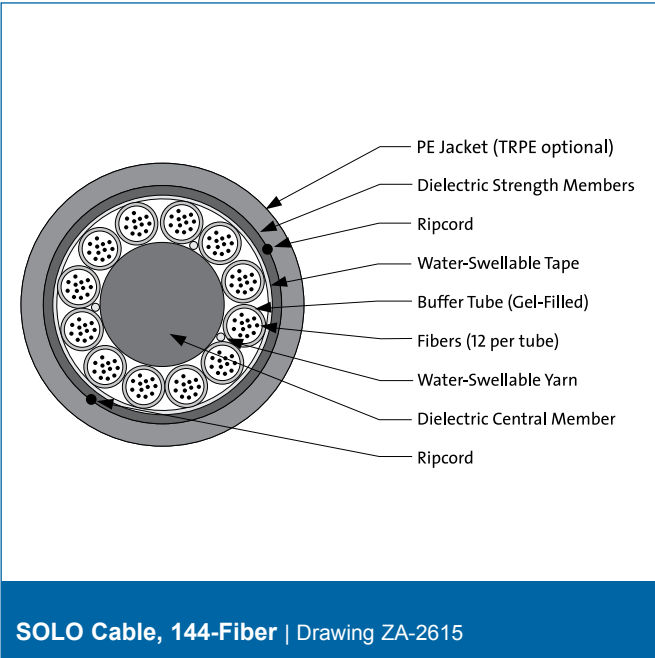
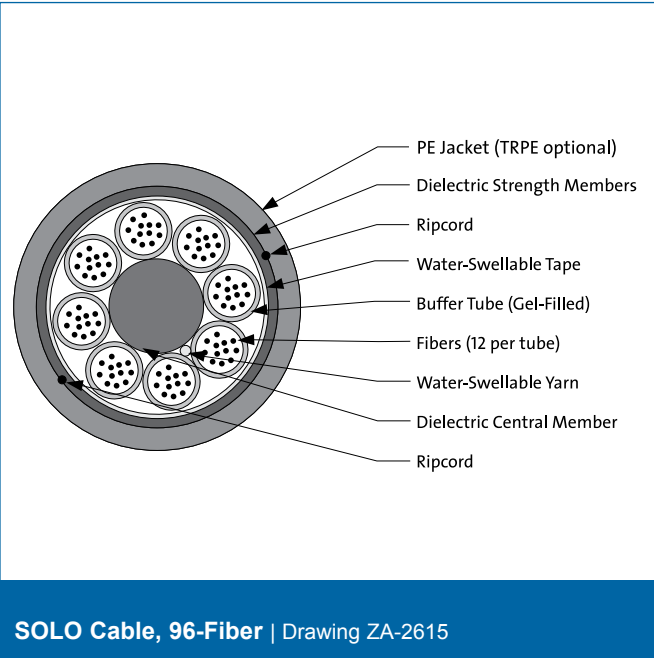
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and facilitates midspan access. The ADSS short-span cables are also available with a proprietary track-resistant polyethylene (TRPE) jacket suitable for installation in electric field potentials up to 25 kV.



SOLO® ADSS Short-Span Cables, 2-144 Fibers

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specifications |

Temperatures	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 limited 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.

* PLP = Preformed Line Products (www.preformed.com)

Fiber Count	Number of Tube Positions	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Minimum Bend Radius Loaded cm (in)	Minimum Bend Radius Installed cm (in)	PLP Dead-End Hardware Part Number
2-72	6	92 (62)	10.9 (0.43)	16.4 (6.5)	10.9 (4.3)	2872002
73-96	8	122 (82)	12.6 (0.50)	18.9 (7.5)	12.6 (5.0)	2872004
97-144	12	196 (132)	16.1 (0.63)	24.2 (9.5)	16.1 (6.3)	2872008

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Sag and Tension Information									
Fiber Count	Installation		Tension N (lbf)	NESC Light		NESC Medium		NESC Heavy	
	Span m (ft)	Sag %		Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)
2-72	15 (50)	1.0	174 (39)	0.4	488 (110)	1.7	694 (156)	2.4	1028 (231)
	30 (100)	1.0	348 (78)	0.5	852 (191)	2.0	1179 (265)	2.9	1711 (385)
	46 (150)	1.0	522 (117)	0.5	1173 (264)	2.2	1602 (360)	3.2	2300 (517)
	61 (200)	1.0	696 (156)	0.5	1472 (331)	2.3	1989 (447)	3.5	2836 (637)
	76 (250)	1.0	870 (195)	0.6	1754 (394)	2.5	2353 (529)	3.7	3336 (750)
	91 (300)	1.0	1043 (235)	0.6	2025 (455)	2.6	2699 (607)	3.9	3810 (857)
	107 (350)	1.0	1217 (274)	0.6	2287 (514)	2.7	3032 (682)	–	– –
	122 (400)	1.0	1391 (313)	0.6	2542 (571)	2.8	3354 (754)	–	– –
	137 (450)	1.0	1565 (352)	0.7	2790 (627)	2.9	3667 (824)	–	– –
	152 (500)	1.0	1739 (391)	0.7	3034 (682)	2.9	3972 (893)	–	– –
	168 (550)	1.0	1913 (430)	0.7	3274 (736)	–	– –	–	– –
	183 (600)	1.0	2087 (469)	0.7	3509 (789)	–	– –	–	– –
73-96	15 (50)	1.0	230 (52)	0.5	577 (130)	1.6	780 (175)	2.3	230 (52)
	30 (100)	1.0	460 (103)	0.5	1007 (226)	1.9	1328 (299)	2.8	460 (103)
	46 (150)	1.0	690 (155)	0.6	1391 (313)	2.1	1809 (407)	3.1	690 (155)
	61 (150)	1.0	920 (207)	0.6	1748 (393)	2.3	2251 (506)	3.3	920 (207)
	76 (250)	1.0	1150 (259)	0.6	2088 (469)	2.4	2668 (600)	3.6	1150 (259)
	91 (300)	1.0	1380 (310)	0.7	2415 (543)	2.5	3067 (689)	3.7	1380 (310)
	107 (350)	1.0	1610 (362)	0.7	2732 (614)	2.6	3451 (776)	–	– –
	122 (400)	1.0	1840 (414)	0.7	3041 (684)	2.7	3823 (859)	–	– –
	137 (450)	1.0	2070 (465)	0.7	3344 (752)	2.8	4186 (941)	–	– –
	152 (500)	1.0	2300 (517)	0.7	3642 (819)	2.9	4541 (1021)	–	– –
	168 (550)	1.0	2530 (569)	0.7	3935 (885)	–	– –	–	– –
	183 (600)	1.0	2760 (620)	0.7	4224 (950)	–	– –	–	– –

Note: Longer spans available upon request.

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specifications | (continued)

Sag and Tension Information									
Fiber Count	Installation Span m (ft)	Installation		NESC Light		NESC Medium		NESC Heavy	
		Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)	Sag %	Tension N (lbf)
97-144	15 (50)	1.0	368 (83)	0.6	723 (163)	1.7	904 (203)	2.4	1274 (286)
	30 (100)	1.0	737 (166)	0.6	1277 (287)	2.0	1559 (351)	2.8	2141 (481)
	46 (150)	1.0	1105 (248)	0.7	1779 (400)	2.2	2143 (482)	3.1	2901 (652)
	61 (200)	1.0	1473 (331)	0.7	2254 (507)	2.3	2688 (604)	3.4	3601 (809)
	76 (250)	1.0	1842 (414)	0.8	2711 (610)	2.5	3208 (721)	3.6	4261 (958)
	91 (300)	1.0	2210 (497)	0.8	3156 (710)	2.6	3709 (834)	3.7	4893 (1100)
	107 (350)	1.0	2579 (580)	0.8	3591 (807)	2.6	4196 (943)	—	— —
	122 (400)	1.0	2947 (663)	0.8	4019 (903)	2.7	4672 (1050)	—	— —
	137 (450)	1.0	3315 (745)	0.8	4441 (998)	—	— —	—	— —
	152 (500)	1.0	3684 (828)	0.8	4857 (1092)	—	— —	—	— —

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SOLO® ADSS Short-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 Corning Cable Systems Customer Service Representative for additional information.

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

☐	☐	☐	☐	N	☐	-	T	☐	S	☐	☐	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.
S = SOLO Short-Span Cable

|10-11

Select performance
option code (see
Transmission
Performance table).

|13-14

Defines special
requirements.
20 = No special
requirements

Notes:
1) N/A defines 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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