



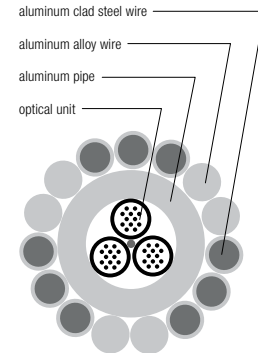
AlumaCore OPGW

AlumaCore Optical Ground Wire is preferred for its performance under the most rugged conditions. Its central aluminum pipe provides superb fiber protection making it ideal for everything from basic installations to those applications requiring high tensions or for extremely long spans.

Features

- Fiber counts up to 96
- Optical unit provides exceptional mechanical and thermal protection for fibers
- Thick-walled aluminum pipe provides hermetic seal for optical units, excellent crush resistance and low resistivity
- Stranded wires selected to optimize mechanical and electrical properties
- Dielectric optical units are available with 6, 8, 12, 18 and 24 fibers
- Supplied with up to 4 optical units, depending on fiber count

Cable Components



Temperature Range

Operating - 40°C to + 85°C
Storage - 50°C to + 85°C
Installation - 30°C to + 85°C

Typical Designs

FIBERS (max)	OPGW SIZE	FAULT CURRENT (kA) ² sec	TOTAL CONDUCTOR AREA		OVERALL DIAMETER		WEIGHT		RBS		SAG10 CHART #	MAX SHIP LENGTH (per reel type)	
			in ²	mm ²	in	mm	lbs/ft	kg/m	lbs	kg		Wood (m)	Steel (m)
8	AC-53/449	39	0.1166	75.24	0.449	11.4	0.282	0.420	15122	6860	1-1453	7000	7000
8	AC-27/27/449	48	0.1166	75.24	0.449	11.4	0.211	0.315	9679	4390	1-1439	7000	7000
8	AC-86/535	74	0.1677	108.17	0.535	13.6	0.430	0.640	22879	10378	1-1442	5500	5500
8	AC-43/43/535	96	0.1677	108.17	0.535	13.6	0.315	0.469	14539	6595	1-1170	5500	5500
12	AC-57/465	41	0.1210	78.08	0.465	11.8	0.300	0.447	16214	7355	1-1421	7000	70 00
12	AC-29/29/465	51	0.1210	78.08	0.465	11.8	0.224	0.333	10344	4692	1-1439	7000	7000
12	AC-72/504	56	0.1445	93.21	0.504	12.8	0.368	0.548	20329	9221	1-1442	6500	7000
12	AC-32/40/504	70	0.1445	93.21	0.504	12.8	0.282	0.420	13732	6229	1-917	7000	7000
24	AC-64/528	68	0.1510	97.43	0.528	13.4	0.359	0.535	18391	8342	1-1450	6700	7000
24	AC-29/34/528	81	0.1510	97.43	0.528	13.4	0.281	0.418	12351	5602	1-1439	7000	7000
24	AC-74/552	81	0.1666	107.51	0.552	14.0	0.405	0.602	21132	9585	1-1453	6000	7000
24	AC-37/37/552	98	0.1666	107.51	0.552	14.0	0.306	0.455	13556	6149	1-1438	7000	7000
36	AC-71/571	95	0.1758	113.39	0.571	14.5	0.411	0.611	20546	9320	1-1461	5900	7000
36	AC-33/38/571	110	0.1758	113.39	0.571	14.5	0.323	0.480	13779	6250	1-1438	7000	7000
36	AC-86/607	118	0.2002	129.14	0.607	15.4	0.481	0.716	24829	11263	1-1457	5000	6900
36	AC-40/47/607	141	0.2002	129.14	0.607	15.4	0.375	0.558	16646	7551	1-1439	6500	7000
48	AC-86/646	151	0.2208	142.43	0.646	16.4	0.509	0.757	25098	11384	1-1461	4700	6600
48	AC-34/52/646	172	0.2208	142.43	0.646	16.4	0.417	0.621	18053	8189	1-1439	5800	7000
48	AC-129/724	239	0.2876	185.57	0.724	18.4	0.703	1.046	35034	15891	1-1453	3400	4700
48	AC-65/65/724	292	0.2876	185.57	0.724	18.4	0.530	0.789	22524	10217	1-1438	4500	5500
72	AC-88/659	154	0.2232	143.98	0.659	16.7	0.516	0.768	25556	11592	1-1461	4700	6500
72	AC-38/49/659	177	0.2232	143.98	0.659	16.7	0.414	0.615	17698	8028	1-1438	5800	6800
72	AC-102/691	182	0.2460	158.96	0.691	17.5	0.582	0.866	29555	13406	1-1450	4100	5700
72	AC-44/58/691	212	0.2460	158.96	0.691	17.5	0.465	0.692	20566	9329	1-1439	5200	6800
96	AC-79/637	138	0.2095	135.14	0.637	16.2	0.4829	0.719	23,150	10,501	1-1166	5000	6800
96	AC-39/39/637	159	0.2095	135.14	0.637	16.2	0.3778	0.562	15,077	6,839	1-1441	6400	6800
96	AC-125/726	230	0.2813	181.48	0.726	18.4	0.6919	1.030	34,882	15,823	1-1453	3500	4800
96	AC-58/67/726	277	0.2813	181.48	0.726	18.4	0.5378	0.800	23,286	10,562	1-1439	4500	6100

* per reel type

WIR files of all these catalog designs can be found in the PLS-CADD™ online library at <http://www.powline.com/files.html>.

NOTE: The designs above are only a sampling of the options available from AFL. Contact customer service for a cable designed to your exact specifications.