

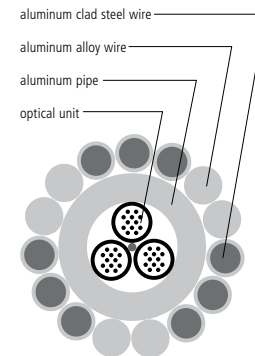
## AlumaCore OPGW

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 144
- 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 6 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) <sup>2</sup> sec	TOTAL CONDUCTOR AREA		OVERALL DIAMETER		WEIGHT		RBS		SAG10 CHART #	MAX SHIP LENGTH (per reel type)	
			in <sup>2</sup>	mm <sup>2</sup>	in	mm	lbs/ft	kg/m	lbs	kgf		Wood (m)	Steel (m)
12	AC-57/465	41	0.1210	78.08	0.465	11.8	0.300	0.447	16,214	7,355	1-1421	7,000	7,000
12	AC-29/29/465	51	0.1210	78.08	0.465	11.8	0.224	0.333	10,344	4,692	1-1439	7,000	7,000
12	AC-72/504	56	0.1445	93.21	0.504	12.8	0.368	0.548	20,329	9,221	1-1442	6,500	7,000
12	AC-32/40/504	70	0.1445	93.21	0.504	12.8	0.282	0.420	13,732	6,229	1-917	7,000	7,000
24	AC-64/528	68	0.1510	97.43	0.528	13.4	0.359	0.535	18,391	8,342	1-1450	6,700	7,000
24	AC-29/34/528	81	0.1510	97.43	0.528	13.4	0.281	0.418	12,351	5,602	1-1439	7,000	7,000
24	AC-74/552	81	0.1666	107.51	0.552	14.0	0.405	0.602	21,132	9,585	1-1453	6,000	7,000
24	AC-37/37/552	98	0.1666	107.51	0.552	14.0	0.306	0.455	13,556	6,149	1-1438	7,000	7,000
36	AC-71/571	95	0.1758	113.39	0.571	14.5	0.411	0.611	20,546	9,320	1-1461	5,900	7,000
36	AC-33/38/571	110	0.1758	113.39	0.571	14.5	0.323	0.480	13,779	6,250	1-1438	7,000	7,000
36	AC-86/607	118	0.2002	129.14	0.607	15.4	0.481	0.716	24,829	11,263	1-1457	5,000	6,900
36	AC-40/47/607	141	0.2002	129.14	0.607	15.4	0.375	0.558	16,646	7,551	1-1439	6,500	7,000
48	AC-86/646	151	0.2208	142.43	0.646	16.4	0.509	0.757	25,098	11,384	1-1461	4,700	6,600
48	AC-34/52/646	172	0.2208	142.43	0.646	16.4	0.417	0.621	18,053	8,189	1-1439	5,800	7,000
48	AC-129/724	239	0.2876	185.57	0.724	18.4	0.703	1.046	35,034	15,891	1-1453	3,400	4,700
48	AC-65/65/724	292	0.2876	185.57	0.724	18.4	0.530	0.789	22,524	10,217	1-1438	4,500	5,500
72	AC-88/659	154	0.2232	143.98	0.659	16.7	0.516	0.768	25,556	11,592	1-1461	4,700	6,500
72	AC-38/49/659	177	0.2232	143.98	0.659	16.7	0.414	0.615	17,698	8,028	1-1438	5,800	6,800
72	AC-102/691	182	0.2460	158.96	0.691	17.5	0.582	0.866	29,555	13,406	1-1450	4,100	5,700
72	AC-44/58/691	212	0.2460	158.96	0.691	17.5	0.465	0.692	20,566	9,329	1-1439	5,200	6,800
144	AC-82/646	144	0.2147	138.52	0.646	16.4	0.498	0.741	24,069	10,918	1-1461	4,800	6,500
144	AC-39/43/646	166	0.2147	138.52	0.646	16.4	0.395	0.588	16,145	7,323	1-355	6,100	6,500
144	AC-125/726	230	0.2813	181.48	0.726	18.4	0.6919	1.030	34,882	15,823	1-1453	3,500	4,800
144	AC-58/67/726	277	0.2813	181.48	0.726	18.4	0.5378	0.800	23,286	10,562	1-1439	4,500	6,100

This information denotes the input data needed for Sag10™ (sag and tension calculation) software. WIR files of all these catalog designs can be found on PLS-CADD web page.

**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.