

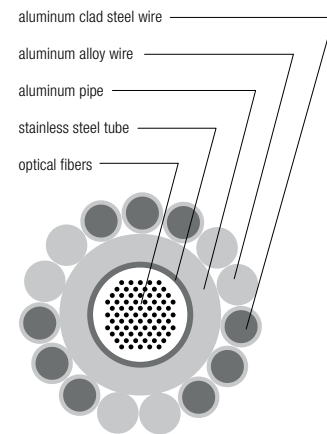
## CentraCore OPGW

CentraCore Optical Ground Wire is available in fiber counts up to 72, and due to its small size, offers a unique solution to the diameter and weight concerns on many of today's overloaded towers. A central stainless steel tube houses the optical fibers. The stainless steel tube is then inserted into an aluminum pipe which provides added crush protection while increasing the conductivity. The fibers are protected from environmental conditions (lightning, short circuit, loading) to ensure reliability and longevity.

### Features

- Fiber counts up to 72
- Very small diameter, low weight
- Central tube provides mechanical and thermal protection for optical fibers
- Excellent crush resistance and high fault current rating capability
- Unique designs have maximum allowable tension to control fiber strain
- Stranded wires selected to optimize mechanical and electrical properties of cable

### 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	kg		Wood (m)	Steel (m)
48	CC-57/465	43	0.1248	80.52	0.465	11.80	0.314	0.467	16,626	7,541	1-1421	7000	7000
48	CC-29/29/465	54	0.1248	80.52	0.465	11.80	0.238	0.354	10,755	4,878	1-1455	7000	7000
48	CC-54/472	53	0.1339	86.39	0.472	12.00	0.317	0.471	16,089	7,298	1-1450	7000	7000
48	CC-27/27/472	63	0.1339	86.39	0.472	12.00	0.244	0.364	10,523	4,773	1-1438	7000	7000
48	CC-63/496	63	0.1474	95.08	0.496	12.60	0.356	0.529	18,454	8,371	1-1453	6850	7000
48	CC-29/34/496	75	0.1474	95.08	0.496	12.60	0.280	0.416	12,584	5,708	1-1455	7000	7000
48	CC-72/504	58	0.1482	95.64	0.504	12.80	0.382	0.568	20,740	9,408	1-1442	6350	7000
48	CC-32/40/504	74	0.1482	95.64	0.504	12.80	0.296	0.441	14,144	6,416	1-1440	7000	7000
48	CC-75/528	75	0.1646	106.20	0.528	13.40	0.410	0.611	21,831	9,903	1-1453	5950	7000
48	CC-38/38/528	94	0.1646	106.20	0.528	13.40	0.310	0.461	14,092	6,392	1-1439	7000	7000
72	CC-54/472	51	0.1318	85.01	0.472	12.00	0.316	0.470	16,067	7,288	1-1457	7000	7000
72	CC-27/27/472	61	0.1318	85.01	0.472	12.00	0.243	0.362	10,501	4,763	1-1438	7000	7000
72	CC-63/496	60	0.1452	93.70	0.496	12.60	0.355	0.528	18,432	8,361	1-1453	6850	7000
72	CC-29/34/496	73	0.1452	93.70	0.496	12.60	0.278	0.414	12,561	5,698	1-1455	7000	7000
72	CC-63/507	71	0.1547	99.80	0.507	12.90	0.367	0.546	18,677	8,472	1-1450	6650	7000
72	CC-32/32/507	85	0.1547	99.80	0.507	12.90	0.282	0.420	12,195	5,532	1-1438	7000	7000
72	CC-75/528	75	0.1646	106.20	0.528	13.40	0.410	0.611	21,831	9,903	1-1421	5950	7000
72	CC-38/38/528	94	0.1646	106.20	0.528	13.40	0.310	0.461	14,092	6,392	1-1455	7000	7000
72	CC-73/532	84	0.1701	109.73	0.532	13.50	0.411	0.612	21,380	9,698	1-1453	5900	7000
72	CC-33/40/532	100	0.1701	109.73	0.532	13.50	0.323	0.480	14,561	6,605	1-1455	7000	7000

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 site.

**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.