



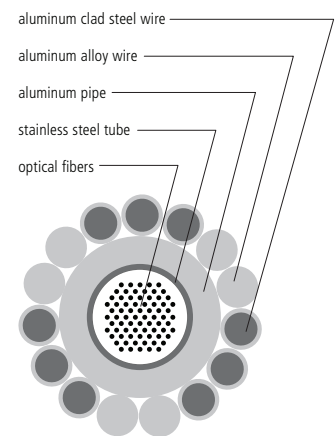
CentraCore OPGW

CentraCore Optical Ground Wire is available in fiber counts up to 96, 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 96
- Very small diameter, low weight
- Laser-welded, hermetically sealed stainless steel tubes provide mechanical and thermal protection for optical fibers
- 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) ² sec	TOTAL CONDUCTOR AREA		OVERALL DIAMETER		WEIGHT		APPROXIMATE RBS		SAG10 CHART #	MAX SHIP LENGTH (per reel type)	
			in ²	mm ²	in	mm	lbs/ft	kg/m	lbs	kgf		Wood (m)	Steel (m)
48	CC-57/465	43	0.1248	80.52	0.465	11.80	0.314	0.467	16,250	7,400	1-1421	7000	7000
48	CC-29/29/465	54	0.1248	80.52	0.465	11.80	0.238	0.354	10,500	4,700	1-1455	7000	7000
48	CC-54/472	53	0.1334	86.09	0.472	12.00	0.316	0.470	15,750	7,100	1-1450	7000	7000
48	CC-27/27/472	63	0.1334	86.09	0.472	12.00	0.244	0.362	10,000	4,600	1-1438	7000	7000
48	CC-72/504	58	0.1482	95.64	0.504	12.80	0.382	0.568	20,500	9,300	1-1442	6350	7000
48	CC-32/40/504	73	0.1482	95.64	0.504	12.80	0.296	0.441	13,750	6,300	1-1440	7000	7000
48	CC-75/528	77	0.1663	107.28	0.528	13.40	0.411	0.612	21,500	9,700	1-1453	5950	7000
48	CC-38/38/528	96	0.1663	107.28	0.528	13.40	0.310	0.462	13,750	6,200	1-1439	7000	7000
72	CC-54/472	51	0.1318	85.01	0.472	12.00	0.316	0.470	15,750	7,100	1-1457	7000	7000
72	CC-27/27/472	61	0.1318	85.01	0.472	12.00	0.243	0.362	10,000	4,600	1-1438	7000	7000
72	CC-63/507	71	0.1547	99.80	0.507	12.90	0.367	0.546	18,250	8,300	1-1450	6650	7000
72	CC-32/32/507	85	0.1547	99.80	0.507	12.90	0.282	0.420	11,750	5,300	1-1438	7000	7000
72	CC-75/528	75	0.1646	106.20	0.528	13.40	0.410	0.611	21,500	9,700	1-1421	5950	7000
72	CC-38/38/528	94	0.1646	106.20	0.528	13.40	0.310	0.461	13,750	6,200	1-1455	7000	7000
96	CC-65/500	51	0.1393	89.86	0.500	12.70	0.385	0.573	18,900	8,600	1-1442	4800	4800
96	CC-30/36/500	64	0.1393	89.86	0.500	12.70	0.306	0.456	12,750	5,800	1-1440	4800	4800
96	CC-75/528	62	0.1550	100.00	0.528	13.40	0.431	0.641	21,500	9,800	1-1442	4800	4800
96	CC-38/38/528	81	0.1550	100.00	0.528	13.40	0.331	0.492	14,000	6,300	1-917	4800	4800
96	CC-86/563	86	0.1803	116.31	0.563	14.30	0.488	0.726	24,500	11,100	1-1425	4800	4800
96	CC-34/51/563	106	0.1803	116.31	0.563	14.30	0.340	0.591	17,400	7,900	1-1460	4800	4800

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.

NOTES:

Data contained in the table are approximations. Please reference the exact cable data sheet for the most up-to-date information.

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