



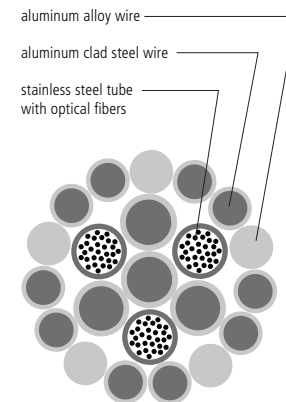
## HexaCore OPGW

HexaCore Optical Ground Wire cable houses and protects the optical fibers within gel-filled stainless steel tubes. Aluminum clad steel and aluminum alloy wires are stranded with the tubes to create a dual-layer design suitable for a variety of applications.

### Features

- Fiber counts up to 432 or higher for custom designs
- Laser-welded, hermetically sealed stainless steel tubes provide mechanical and thermal protection for optical fibers
- High load, long span capability
- Anti-rotational devices usually not required for installation
- Each stainless steel tube is uniquely identified for organization at splice locations
- 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		APPROXIMATE 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)
24	SX-32/45/472	41	0.1235	79.67	0.472	12.0	0.281	0.418	14,750	6,700	1-1461	7000	7000
36	SX-41/32/472	41	0.1186	76.53	0.472	12.0	0.247	0.368	12,000	5,400	1-350	7000	7000
24	SX-75/37/555	96	0.1757	113.37	0.555	14.1	0.317	0.471	15,250	6,900	1-1438	7000	7000
24	SX-90/30/575	116	0.1889	121.86	0.575	14.6	0.313	0.466	14,250	6,400	1-430	7000	7000
96	S1-82/52/630	137	0.2131	137.45	0.630	16.0	0.417	0.621	20,000	9,000	1-1170	5800	7000
96	S1-83/59/647	152	0.2265	146.13	0.647	16.4	0.453	0.674	22,000	9,900	1-917	5300	7000
96	S1-91/61/668	177	0.2429	156.69	0.668	17.0	0.479	0.712	23,250	10,500	1-917	5100	6450
144	S1-71/52/630	118	0.2006	129.41	0.630	16.0	0.416	0.619	19,750	8,950	1-1440	5950	7000
144	S1-73/59/647	132	0.2140	138.09	0.647	16.4	0.452	0.673	21,750	9,800	1-350	5400	6850
144	S1-81/61/668	155	0.2304	148.65	0.668	17.0	0.472	0.702	23,000	10,400	1-1440	5150	6450
288	S1-41/52/630	68	0.1632	105.28	0.630	16.0	0.414	0.616	19,000	8,600	1-1461	5890	7000
288	S1-42/59/647	79	0.1766	113.96	0.647	16.4	0.450	0.670	21,000	9,500	1-1461	5400	6850
288	S1-50/61/668	97	0.1930	124.52	0.668	17.0	0.476	0.708	22,250	10,000	1-1461	5125	6450

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