

STABILOY® Brand Service Entrance Cable (SER)

XLPE, Low-Voltage Power
600 V, UL Type SE Style R, Multi-Conductor, Aluminum



Product Construction:

Conductor:

- 8 AWG thru 2 AWG Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801
- 1 AWG thru 300 kcmil compact stranded SIW aluminum alloy (8000 Series) per ASTM B800, ASTM B801 and ASTM B836

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE)
- Type XHHW-2

Jacket:

- Sunlight-resistant Polyvinyl Chloride (PVC), gray

Print:

- GENERAL CABLE® (PLANT OF MFG) STABILOY® AA-8030 AL TYPE SE CABLE STYLE R XHHW-2 600 V (NUMBER OF CONDUCTORS) CDRS SIZE (AWG OR KCMIL) (MM²) 1 CDR SIZE AWG (MM²) SUN RES (UL) YEAR DATE (TIME OF MFG) SEQUENTIAL FOOTAGE

Applications:

- STABILOY® Brand SER cable is used in service and feeder applications for dwelling units and other interior wiring applications
- Above-ground service entrance and branch circuit
 - Maximum operating temperature not to exceed 90°C in wet or dry locations
 - 600 V approved for use as specified by the NEC®

Features:

- Oil Resistant PRI/PRII
- Gas and Oil Res GRI/GRII
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation
- Excellent electrical, thermal and physical properties
- Meets cold bend and cold impact tests at -40°C

Compliances:

- Industry Compliances:**
- UL 854 Type SE Style U, UL File #E39725
 - UL 44 for Types RHH and RHW-2, UL File #E39406
 - National Electrical Code (NEC®)
- Flame Test Compliances:**
- UL 1581, Vertical Flame 1061
- Other Compliances:**
- OSHA Acceptable
 - RoHS Compliant

Packaging:

- Material available in standard packages and shipped on non-returnable wood reels

PHASE CONDUCTORS				BARE GROUND		NOMINAL CABLE DIAMETER		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT		AMPACITY (1) 30°C AMBIENT		
SIZE		NO. OF WIRES	INS. THKN.		SIZE		IN		LBS/1000 FT		kg/km		@75°C	
AWG	mm ²		IN	mm	AWG	mm ²	IN	mm	LBS/1000 FT	kg/km	@75°C	@90°C		
TWO CONDUCTOR SER WITH A BARE GROUND														
8*	8.4	7	0.045	1.14	8	8.4	0.514	13.06	46	68	98	146	40	45
6	13.3	7	0.045	1.14	6	13.3	0.584	14.83	74	110	134	199	50	60
4	21.1	7	0.045	1.14	6	13.3	0.672	17.07	103	153	174	259	65	75
4*	21.1	7	0.045	1.14	4	21.1	0.673	17.09	117	174	189	281	65	75
2*	33.6	7	0.045	1.14	4	21.1	0.782	19.86	164	244	250	372	90	100
2*	33.6	7	0.045	1.14	2	33.6	0.787	19.99	187	278	273	406	90	100
1*	42.4	8	0.055	1.40	1	42.4	0.885	22.48	236	351	344	512	100	115
1/0*	53.5	10	0.055	1.40	2	33.6	0.960	24.38	260	387	385	573	120	135
1/0*	53.5	10	0.055	1.40	1/0	53.5	0.967	24.56	297	442	424	631	120	135
2/0*	67.4	12	0.055	1.40	1	42.4	1.033	26.24	328	488	466	693	135	150
2/0*	67.4	12	0.055	1.40	2/0	67.4	1.044	26.52	375	558	515	766	135	150
4/0	107.2	19	0.055	1.40	2/0	67.4	1.226	31.14	522	777	695	1034	180	205
4/0*	107.2	19	0.055	1.40	4/0	107.2	1.248	31.70	596	887	772	1149	180	205
THREE CONDUCTOR SER WITH A BARE GROUND														
8	8.4	7	0.045	1.14	8	8.4	0.579	14.71	62	92	128	190	40	45
6	13.3	7	0.045	1.14	6	13.3	0.675	17.15	98	146	177	263	50	60
4	21.1	7	0.045	1.14	6	13.3	0.745	18.92	142	211	234	348	65	75
2	33.6	7	0.045	1.14	4	21.1	0.884	22.45	226	336	338	503	90	100
1	42.4	8	0.055	1.40	3	26.7	0.992	25.20	285	424	433	644	100	115
1/0	65.5	10	0.055	1.40	2	33.6	1.090	27.69	359	534	526	783	120	135
2/0	67.4	12	0.055	1.40	1	42.4	1.182	30.02	453	674	638	949	135	150
3/0	85.0	16	0.055	1.40	1/0	53.5	1.303	33.10	571	850	780	1161	155	175
4/0	107.2	19	0.055	1.40	2/0	67.4	1.423	36.14	720	1071	955	1421	180	205
250	126.7	23	0.065	1.65	3/0	85.0	1.580	40.13	860	1280	1147	1707	205	230
300	152.0	22	0.065	1.65	4/0	107.2	1.719	43.66	1042	1551	1360	2024	230	255
FOUR CONDUCTOR SER WITH A BARE GROUND														
2	33.6	7	0.045	1.14	4	21.1	0.995	25.27	288	429	427	635	90	100
2/0	67.4	12	0.055	1.40	1	42.4	1.331	33.81	577	859	810	1205	135	150
4/0	107.2	19	0.055	1.40	2/0	67.4	1.600	40.64	918	1366	1213	1805	180	205
250	126.7	23	0.065	1.65	3/0	85.0	1.775	45.09	1095	1630	1456	2167	205	230
300*	152.0	22	0.065	1.65	4/0	107.2	1.928	48.97	1323	1969	1724	2566	230	255

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.
(1) Ampacities per NEC® Table 310.15(B)(16). Adjustment and corrections may apply.

Aluminum U.S. Market