

# 1/C AL 600 or 1000V XLPE XHHW-2 Power Cable

Power Cable 600 or 1000 Volt Single Conductor Aluminum, Cross Linked Polyethylene (XLPE) insulation XHHW-2

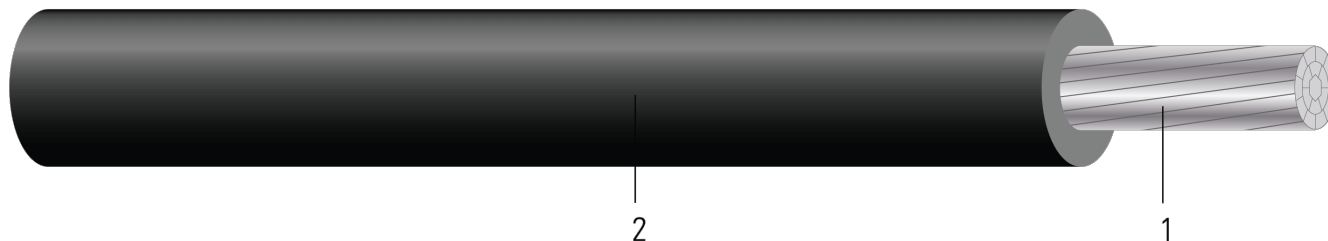


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compact stranded 8000 Series aluminum per ASTM B800 and ASTM B836
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type XHHW-2

## APPLICATIONS AND FEATURES:

Southwire's 600 or 1000 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, aerial supported by a messenger, and where superior electrical properties are desired. These cables are capable of operating continuously at the conductor temperature not in excess of 90°C for normal operation in wet and dry locations, 130°C for emergency overload, and 250°C for short circuit conditions. For uses in Class I, II, and III, Division 2 hazardous locations per NEC Article 501 and 502.

## SPECIFICATIONS:

- ASTM B800 8000 Series Aluminum Alloy Wire
- ASTM B836 Compact Rounded Stranded Aluminum Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- CT USE Sizes 1/0 AWG and Larger
- VW-1 (Vertical-Wire) Flame Test

## SAMPLE PRINT LEGEND:

SOUTHWIRE E30117 MASTER-DESIGN {UL} XXX AWG 8000 COMPACT AL.--- TRIPLE E ALLOY AA8176 TYPE XHHW-2 VW-1 FOR CT USE SUN. RES. 600V OR 1000V {YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET



**Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Diameter Over Conductor	Insul. Thickness	Approx. OD	Aluminum Weight	Approx. Weight
	AWG/Kcmil	inch	mil	inch	lb/1000ft	lb/1000ft
560397	1/0	0.336	55	0.446	99	129
560396	2/0	0.376	55	0.486	125	158
560395	3/0	0.423	55	0.533	158	194
560361	4/0	0.475	55	0.585	199	239
560362	250	0.520	65	0.650	235	287
562832	300	0.570	65	0.700	282	339
560363	350	0.616	65	0.746	329	390
560380	500	0.736	65	0.866	471	543
563044	600	0.813	80	0.973	565	663
560381	750	0.908	80	1.068	706	815
560382	1000	1.060	80	1.220	941	1067

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

† Ampacities are based on Table 310.16 of the NEC 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts with not more than three current-carrying conductors in raceway, cable or direct buried based on ambient temperature of 30°C (86°F).

**Table 2 – Electrical and Engineering Data**

Stock Number	Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 90°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 60° C†	Allowable Ampacity At 75° C†	Allowable Ampacity At 90° C†
	AWG/Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp	Amp
560397	1/0	1.8	634	0.168	0.211	0.028	100	120	135
560396	2/0	1.9	799	0.133	0.167	0.028	115	135	150
560395	3/0	2.1	1007	0.105	0.132	0.027	130	155	175
560361	4/0	2.3	1270	0.084	0.105	0.026	150	180	205
560362	250	2.6	1500	0.071	0.089	0.027	170	205	230
562832	300	2.8	1800	0.059	0.075	0.026	195	230	260
560363	350	3.0	2100	0.051	0.064	0.026	210	250	280
560380	500	3.5	3000	0.035	0.045	0.025	260	310	350
563044	600	3.9	3600	0.030	0.038	0.026	285	340	385
560381	750	5.3	4500	0.024	0.031	0.025	320	385	435
560382	1000	6.1	6000	0.018	0.024	0.025	375	445	500

† Ampacities are based on Table 310.16 of the NEC 2020 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts with not more than three current-carrying conductors in raceway, cable or direct buried based on ambient temperature of 30°C (86°F).

