AL 600V XLPE Insulation XHHW-2. CT Rated - Sunlight Resistant - Silicone Free

Power Cable 600 or 1000 Volt Single Conductor Aluminum, Cross Linked Polyethylene (XLPE) insulation XHHW-2. CT Rated 1/0 and Larger - Sunlight Resistant - Silicone Free

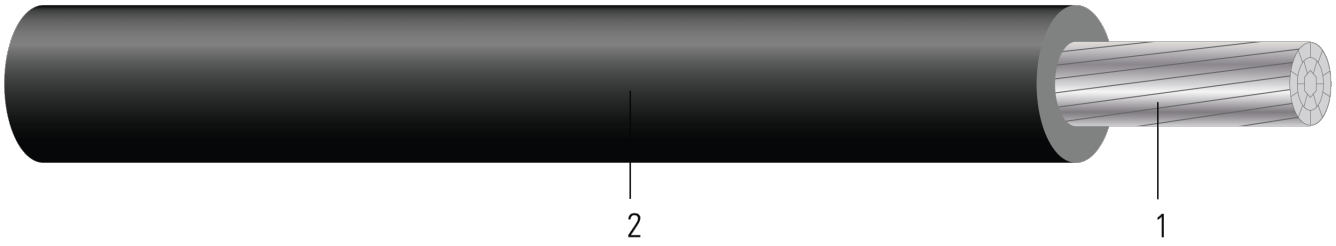

Image not to scale. See Table 1 for dimensions.

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. CT Rated 1/0 and Larger - Sunlight Resistant - Silicone Free

SPECIFICATIONS:

- ASTM B801 Concentric-Lay-Stranded Conductors of 8000 Series Aluminum Alloy
- 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 {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

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Dia. Over Insulation	Approx. OD	Aluminum Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil	No. of Strands	inch	mil	inch	inch	lb/1000ft	lb/1000ft	
560397	1/0	10	0.336	55	0.446	0.458	99	145	BK
TBA	2/0	19	0.376	55	0.486	0.486	125	167	BK
560395	3/0	16	0.423	55	0.533	0.545	158	214	BK
560361	4/0	19	0.475	55	0.585	0.597	199	262	BK
560362	250	22	0.52	65	0.65	0.66	236	313	BK
562832	300	35	0.57	65	0.7	0.71	283	368	BK
560363	350	35	0.616	65	0.746	0.756	330	421	BK
563044	600	58	0.813	80	0.973	0.977	565	711	BK
560381	750	58	0.908	80	1.068	1.08	707	871	BK
560382	1000	58	1.117	80	1.277	1.232	942	1134	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
* Strand count meets minimum number per ASTM
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Table 2 – Electrical and Engineering Data

Stock Number	Cond. Size	Min Bending Radius	Max Pull Tension	DC Resistance @ 25°C	AC Resistance @ 75°C	Inductive Reactance @ 60Hz	Allowable Ampacity At 75°C	Allowable Ampacity At 90°C
	AWG/ Kcmil	inch	lb	Ω/1000ft	Ω/1000ft	Ω/1000ft	Amp	Amp
560397	1/0	1.8	633	0.167	0.208	0.044	120	135
TBA	2/0	1.9	798	0.133	0.166	0.043	135	150
560395	3/0	2.2	1006	0.105	0.131	0.042	155	175
560361	4/0	2.4	1269	0.084	0.105	0.041	180	205
560362	250	2.6	1500	0.07	0.087	0.041	205	230
562832	300	2.8	1800	0.059	0.071	0.041	230	260
560363	350	3	2100	0.051	0.064	0.04	250	280
563044	600	3.9	3600	0.03	0.038	0.039	340	385
560381	750	5.4	4500	0.023	0.03	0.038	385	435
560382	1000	6.2	6000	0.017	0.023	0.037	445	500

***** Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections 310.15 and 110.14(C) for additional requirements.
***** Inductive Reactance is based on non-ferrous conduit with one diameter spacing center-to-center.

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