AL 600V XLPE Insulation RHH/RHW-2/USE-2. CT Rated - Sunlight Resistant - For Direct Burial - Silicone Free

Power Cable 600Volt Single Conductor Aluminum, Cross Linked Polyethylene (XLPE) insulation RHH/RHW-2/USE-2. CT Rated 1/0 and Larger - Sunlight Resistant - For Direct Burial - Silicone Free

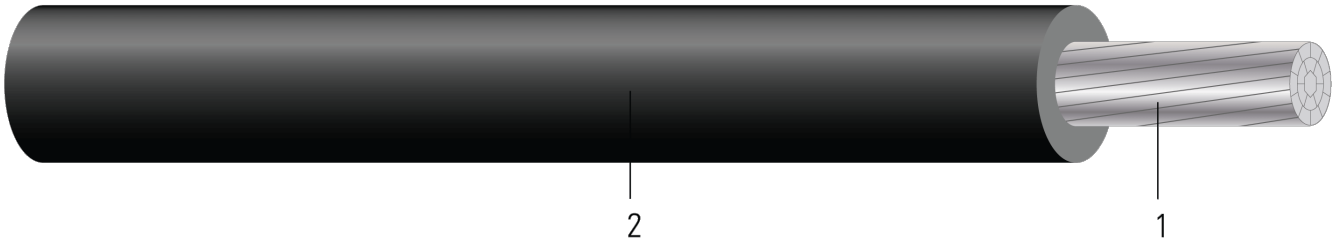


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

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

APPLICATIONS AND FEATURES:

Southwire's 600 Volt power cables are suited for use in wet and dry areas, conduits, ducts, troughs, trays, direct burial, 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. CT Rated 1/0 and Larger - Sunlight Resistant - For Direct Burial - 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 FT4 Vertical-Tray Fire Propagation and Smoke Release Test
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test
- Buy American: Compliant with Buy American Requirements, found in 49 U.S.C. § 5323(j); specify "Made in the USA Only!" when ordering to ensure your project receives American made products.
- VW-1 (Vertical-Wire) Flame Test

SAMPLE PRINT LEGEND:

SOUTHWIRE EXXXXX #P# (UL) [#AWG Or #kcmil] AL RHH/RHW-2 USE-2 XLPE 600V For CT USE SUN. RES. For DIRECT BURIAL FT4 VW-1YEAR (NESC) [SEQUENTIAL FEET MARKS]

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Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Diameter Over Conductor	Insul. Thickness	Approx. OD	Aluminum Weight	Approx. Weight	Jacket Color
	AWG/Kcmil	No. of Strands	inch	mil	inch	lb/1000ft	lb/1000ft	
576142	1/0	10	0.336	80	0.504	99	167	BK
575991	4/0	19	0.475	80	0.643	199	293	BK
576787	250	35	0.52	95	0.72	236	358	BK
575992	300	35	0.57	95	0.77	283	382	BK
576137	350	35	0.616	95	0.816	330	472	BK
567324	500	34	0.736	95	0.936	471	634	BK
576141	600	58	0.813	110	1.037	565	725	BK
576219	750	58	0.908	110	1.14	707	936	BK
TBA	900	58	0.999	110	1.219	847	1063	BK
TBA	1000	58	1.117	110	1.337	941	1180	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
576142	1/0	2	633	0.167	0.208	0.044	120	135
575991	4/0	2.6	1269	0.084	0.105	0.041	180	205
576787	250	2.9	1500	0.07	0.087	0.041	205	230
575992	300	3.1	1800	0.059	0.071	0.041	230	260
576137	350	3.3	2100	0.051	0.064	0.04	250	280
567324	500	3.7	3000	0.036	0.045	0.039	310	350
576141	600	5.2	3600	0.03	0.038	0.039	340	385
576219	750	5.7	4500	0.023	0.03	0.038	385	435
TBA	900	6.1	5400	0.019	0.025	0.037	425	480
TBA	1000	6.7	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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