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

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

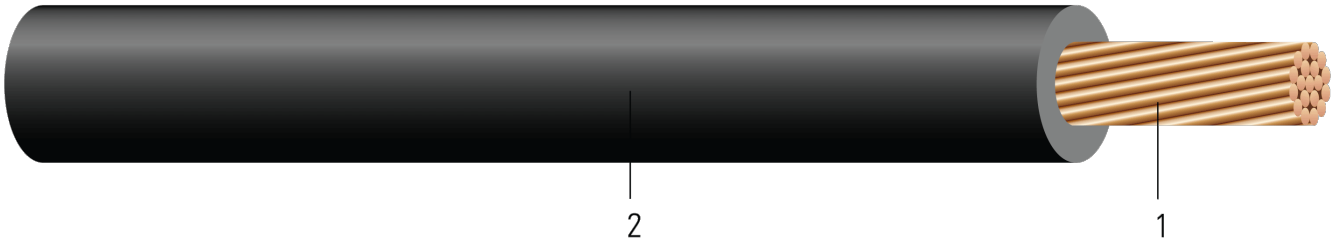


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) Type RHH/RHW-2 or USE-2. Silicone-Free

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. CT Rated for 1/0 AWG and larger - Sunlight Resistant - Silicone Free. Rated for 1000 lb/ft maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- UL 44 Thermoset-Insulated Wires and Cables
- UL 854 Service Entrance Cable
- 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
- IEEE 1202 FT4 Flame Test (70,000) BTU/hr Vertical Tray Test (1/0 and Larger)
- VW-1 (Vertical-Wire) Flame Test
- PR I/II Oil Resistant
- -40ºC Rated

SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE E32071 {UL} XXX AWG (XX.X{mm2}) CU TYPE USE-2 OR RHH OR RHW-2 XX MILS XLP FOR CT USE PRI/II GRI/II SUN. RES. VW-1 FT4 600 VOLTS {NOM}-ANCE RHH/RHW-2 600V 90°C

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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	Copper Weight	Approx. Weight	Jacket Color
	AWG/ Kcmil	No. of Strands	inch	mil	inch	inch	lb/1000ft	lb/1000ft	
890105◊	1/0	19	0.362	80	0.522	0.53	326	396	BK
890106◊	2/0	19	0.405	80	0.565	0.572	411	488	BK
890631◊	3/0	19	0.456	80	0.616	0.624	518	604	BK
890107◊	4/0	19	0.512	80	0.672	0.68	653	748	BK
890632◊	250	37	0.558	95	0.748	0.742	772	892	BK
890108◊	350	37	0.661	95	0.851	0.861	1081	1224	BK
890109◊	500	37	0.789	95	0.979	0.966	1544	1707	BK
890633◊	750	61	0.968	110	1.188	1.2	2316	2551	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
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
890105◊	1/0	2.1	844	0.102	0.127	0.044	150	170
890106◊	2/0	2.3	1064	0.082	0.102	0.043	175	195
890631◊	3/0	2.5	1342	0.064	0.079	0.042	200	225
890107◊	4/0	2.7	1692	0.051	0.063	0.041	230	260
890632◊	250	3	2000	0.043	0.053	0.041	255	290
890108◊	350	3.4	2800	0.031	0.039	0.04	310	350
890109◊	500	3.9	4000	0.021	0.027	0.039	380	430
890633◊	750	6	6000	0.014	0.019	0.038	475	535

***** 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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