

1/C CU 600V XLPE RHH/RHW-2 USE-2 Power Cable

Power Cable 600Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) insulation RHH/RHW-2 USE-2 CT Rated

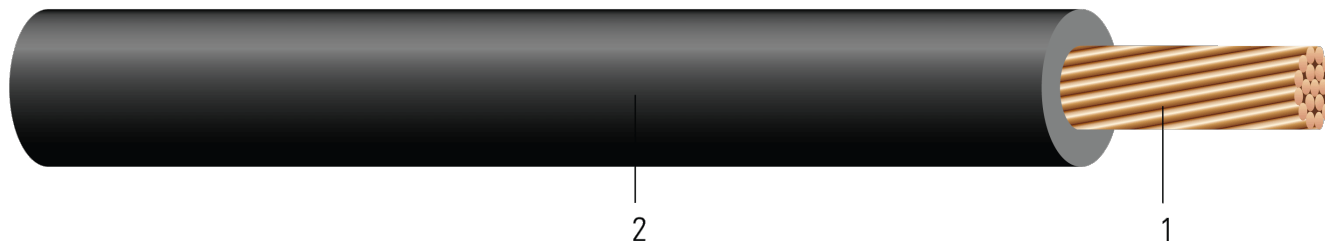


Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
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. Rated for 1000 lbs./FT maximum sidewall pressure.

SPECIFICATIONS:

- ASTM B3 Standard Specification for 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
- VW-1 (Vertical-Wire) Flame Test

SAMPLE PRINT LEGEND:

SOUTHWIRE EXXXXX #P# (UL) [#AWG Or #kcmil] CU RHH/RHW-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 AWG/Kcmil	Diameter Over Conductor inch	Insul. Thickness mil	Approx. OD inch	Copper Weight lb/1000ft	Approx. Weight lb/1000ft
618689	6	0.178	60	0.304	81	109
955872	2	0.277	60	0.403	205	243
890105	1/0	0.360	80	0.520	326	387
890106	2/0	0.404	80	0.564	411	479
890631	3/0	0.454	80	0.614	518	594
890107	4/0	0.510	80	0.670	653	738
890632	250	0.558	95	0.748	772	878
890108	350	0.661	95	0.851	1081	1205
890109	500	0.789	95	0.979	1544	1690
TBA	600	0.866	110	1.086	1853	2008
890633	750	0.968	110	1.188	2316	2514
TBA	1000	1.117	110	1.337	3088	3313

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 AWG/Kcmil	Min Bending Radius inch	Max Pull Tension lb	DC Resistance @ 25°C Ω/1000ft	AC Resistance @ 90°C Ω/1000ft	Inductive Reactance @ 60Hz Ω/1000ft	Allowable Ampacity At 60°C† Amp	Allowable Ampacity At 75°C† Amp	Allowable Ampacity At 90°C† Amp
618689	6	1.2	210	0.411	0.535	0.034	55	65	75
955872	2	1.1	531	0.162	0.203	0.032	95	115	130
890105	1/0	2.1	845	0.102	0.128	0.030	125	150	170
890106	2/0	2.3	1065	0.081	0.102	0.029	145	175	195
890631	3/0	2.5	1342	0.064	0.081	0.029	165	200	225
890107	4/0	2.7	1693	0.051	0.064	0.028	195	230	260
890632	250	3.0	2000	0.043	0.055	0.028	215	255	290
890108	350	3.4	2800	0.031	0.040	0.028	260	310	350
890109	500	3.9	4000	0.022	0.029	0.027	320	380	430
TBA	600	5.43	4000	0.018	0.027	0.027	350	420	475
890633	750	5.9	6000	0.014	0.020	0.026	400	475	535
TBA	1000	6.7	8000	0.011	0.016	0.026	455	545	615

† 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).

