

# 1/C CU 600 or 1000V XLPE-SIM XHHW-2 Power Cable. CT Rated 1/0 and Larger

Power Cable 600 or 1000 Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) with Simpull technology insulation XHHW-2. FT4/IEEE 1202 350kcmil and larger.

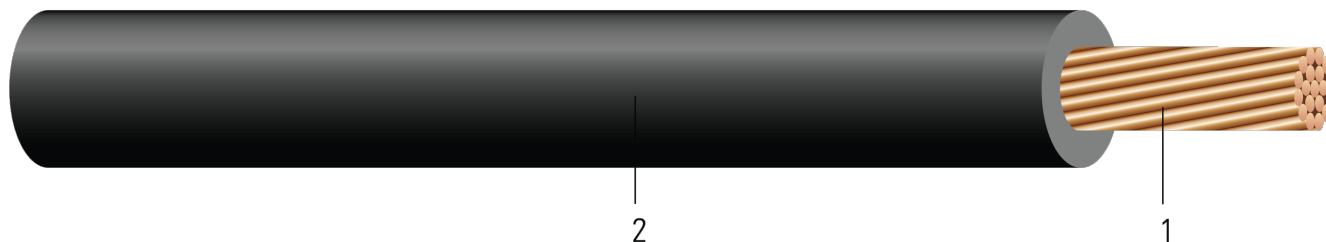


Image not to scale. See Table 1 for dimensions.

## CONSTRUCTION:

1. **Conductor:** Class B compressed stranded bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Cross Linked Polyethylene (XLPE) with Simpull technology 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. FT4/IEEE 1202 on 350kcmil and larger. 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 1685 Vertical-Tray Fire Propagation and Smoke Release Test (1/0 and Larger)
- UL 2556 Standard for Safety Wire and Cable Test Methods
- 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) 350kcmil and Larger

## SAMPLE PRINT LEGEND:

{SQFTG} SOUTHWIRE{R} SIMpull XHHW-2{R} E30117 MASTER-DESIGN {UL} XXX AWG(XXX{mm<sup>2</sup>}) CU TYPE XHHW-2 SUN. RES. FOR CT USE GASOLINE AND OIL RESISTANT II 600V/1000V {NOM}-ANCE LS



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**Table 1 – Weights and Measurements**

Stock Number	Cond. Size	Diameter Over Conductor	Insul. Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	inch	mil	inch	lb/1000ft	lb/1000ft
113001◇	1/0	0.360	55	0.470	326	361
113019◇	2/0	0.404	55	0.514	411	450
113027◇	3/0	0.454	55	0.564	518	562
113035◇	4/0	0.510	55	0.620	653	703
113043◇	250	0.558	65	0.688	772	832
113050	300	0.611	65	0.741	926	991
113068◇	350	0.661	65	0.791	1081	1151
TBA	400	0.706	65	0.835	1235	1316
113084◇	500	0.789	65	0.919	1544	1627
113092◇	600	0.866	80	1.026	1853	1960
113100◇	750	0.968	80	1.128	2316	2435
113134◇	1000	1.117	80	1.277	3088	3223

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, 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
113001◇	1/0	1.9	845	0.102	0.128	0.028	125	150	170
113019◇	2/0	2.1	1065	0.081	0.102	0.027	145	175	195
113027◇	3/0	2.3	1342	0.064	0.081	0.027	165	200	225
113035◇	4/0	2.5	1693	0.051	0.064	0.026	195	230	260
113043◇	250	2.8	2000	0.043	0.055	0.027	215	255	290
113050	300	3.0	2400	0.036	0.046	0.026	240	285	320
113068◇	350	3.2	2800	0.031	0.040	0.026	260	310	350
TBA	400	3.3	3200	0.026	0.035	0.025	280	335	380
113084◇	500	3.7	4000	0.022	0.029	0.025	320	380	430
113092◇	600	5.1	4800	0.018	0.024	0.026	350	420	475
113100◇	750	5.6	6000	0.014	0.020	0.025	400	475	535
113134◇	1000	6.4	8000	0.011	0.017	0.025	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, based on ambient temperature of 30°C (86°F)

