

SIMpull XHHW-2® CU 600/1000V XLPE Insulation. CT Rated - Sunlight Resistant

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

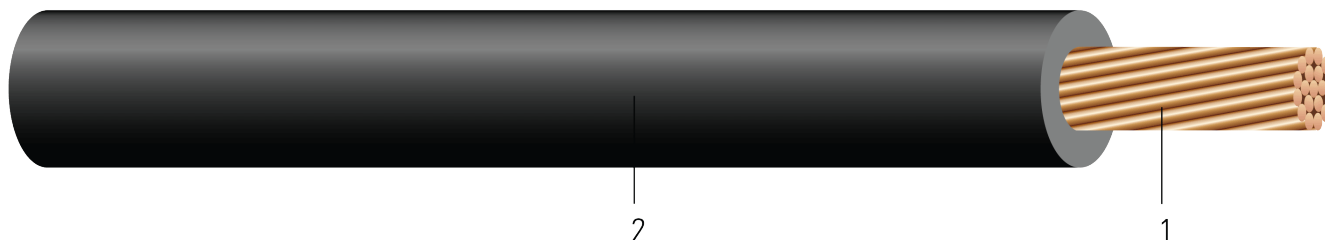


Image not to scale. See Table 1 for dimensions.

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. Sunlight resistant - FT4/IEEE 1202 on 350kcmil and larger. Rated for 1000 lbs./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 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® SIMpull XHHW-2® E30117 {UL} XXX AWG(XXX{mm²}) 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	Strand Count	Diameter Over Conductor	Insul. Thickness	Approx. OD	Copper Weight	Approx. Weight
	AWG/Kcmil	No. of Strands	inch	mil	inch	lb/1000ft	lb/1000ft
553446◇	1/0	19	0.361	55	0.476	326	362
600510◇	2/0	19	0.405	55	0.520	410	451
557058◇	3/0	19	0.456	55	0.570	518	562
429712◇	4/0	19	0.512	55	0.614	653	702
557025◇	250	37	0.558	65	0.680	771	834
550871◇	350	37	0.661	65	0.779	1080	1153
557017◇	500	37	0.789	65	0.904	1543	1630
604579◇	600	61	0.865	80	1.034	1852	1969
551028◇	750	61	0.968	80	1.136	2315	2446
557488◇	1000	61	1.117	80	1.277	3088	3244

All dimensions are nominal and subject to normal manufacturing tolerances

◇ Cable marked with this symbol is a standard stock item

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 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
553446◇	1/0	1.9	844	0.102	0.122	0.044	125	150	170
600510◇	2/0	2.0	1064	0.081	0.097	0.043	145	175	195
557058◇	3/0	2.2	1342	0.064	0.078	0.042	165	200	225
429712◇	4/0	2.4	1692	0.051	0.062	0.041	195	230	260
557025◇	250	2.7	2000	0.043	0.053	0.041	215	255	290
550871◇	350	3.1	2800	0.031	0.039	0.040	260	310	350
557017◇	500	3.6	4000	0.022	0.029	0.039	320	380	430
604579◇	600	5.1	4800	0.018	0.025	0.039	350	420	475
551028◇	750	5.6	6000	0.014	0.022	0.038	400	475	535
557488◇	1000	6.3	8000	0.011	0.018	0.037	455	545	615

* 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.

