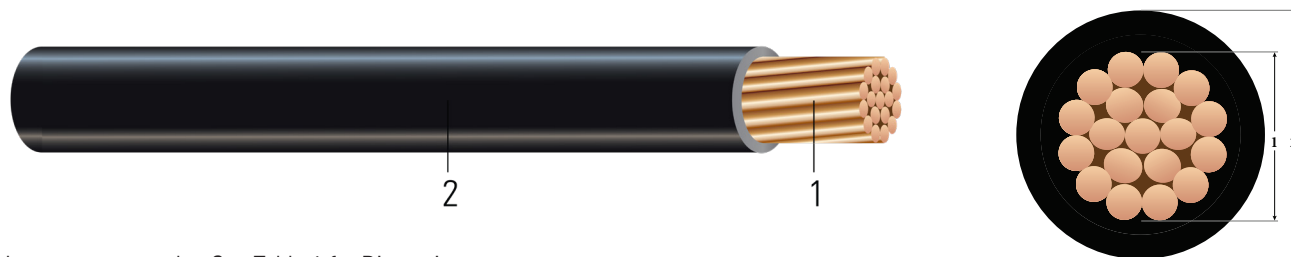


1/C CU 1000V XLPE XHHW-2 Power Cable

Power Cable 1000 Volt Single Conductor Copper, Cross Linked Polyethylene (XLPE) insulation XHHW-2



Images 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 XHHW-2

APPLICATIONS AND FEATURES:

Southwire's 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.

SPECIFICATIONS:

- ASTM B3 Soft or Annealed Copper
- ASTM B8 Concentric-lay-standard copper
- UL 44 Thermoset Insulated wires And cables
- UL 1685 - Flame Test
- UL 1581 - Electrical Wires, Cables and Flexible Cords
- IEEE 1202/FT4 - Vertical Tray Flame Test (70,000 Btu/hr)
- ICEA S-58-679 - Control Cable Conductor Identification Method 4
- ICEA S-95-658 NEMA WC70 - Power cables rated 2000 volts or less for the distribution of electrical energy

SAMPLE PRINT LEGEND:

SOUTHWIRE EXXXXX #P# (UL) [#AWG Or #kcmil] CU XHHW-2 XLPE 1000V For CT USE SUN. RES. FT4 YEAR (NESC) [SEQUENTIAL FEET MARKS]



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Southwire[®]

Table 1 – Weights & Measurements

Stock Code	Cond. Size	Dia Over Cond. (1)	Insul. Thickness	Approx. OD (2)	Copper Weight	Approx. Weight
	AWG	inches	inches	inches	lbs./MFT	lbs./MFT
553446 [◊]	1/0	0.360	55	0.470	326	360
600510 [◊]	2/0	0.404	55	0.514	411	449
557058 [◊]	3/0	0.454	55	0.564	518	561
429712 [◊]	4/0	0.510	55	0.620	653	701
557025 [◊]	250	0.558	65	0.688	772	830
604553	300	0.611	65	0.741	926	991
550871 [◊]	350	0.661	65	0.791	1081	1150
557017 [◊]	500	0.789	65	0.919	1544	1625
604579 [◊]	600	0.866	80	1.026	1853	1958
551028 [◊]	750	0.968	80	1.128	2316	2432
557488 [◊]	1000	1.117	80	1.277	3088	3223

All dimensions are nominal and subject to normal manufacturing tolerances

Table 2 – Electrical and Engineering Data

Stock Code	Cond. Size AWG	Min. Bending Radius Inches	Max. Pull Tension lbs.	Resistance		Reactance X_L @ 60Hz Ω/MFT	Ø Short Circuit Current 6 Cycles Amps	Allowable Ampacities [†]		
				DC @ 25°C Ω/MFT	AC @ 90°C Ω/MFT			60 °C Amps	75 °C Amps	90 °C Amps
553446 [◊]	1/0	1.9	845	0.102	0.128	0.028	24011	125	150	170
600510 [◊]	2/0	2.1	1065	0.081	0.102	0.027	30264	145	175	195
557058 [◊]	3/0	2.3	1342	0.064	0.081	0.027	38154	165	200	225
429712 [◊]	4/0	2.5	1693	0.051	0.064	0.026	48114	195	230	260
557025 [◊]	250	2.8	2000	0.043	0.055	0.027	56845	215	255	290
604553	300	3.0	2400	0.036	0.046	0.026	68214	240	285	320
550871 [◊]	350	3.2	2800	0.031	0.040	0.026	79583	260	310	350
557017 [◊]	500	3.7	4000	0.022	0.029	0.025	113690	320	380	430
604579 [◊]	600	5.1	4800	0.018	0.024	0.026	136428	350	420	475
551028 [◊]	750	5.6	6000	0.014	0.020	0.025	170535	400	475	535
557488 [◊]	1000	6.4	8000	0.011	0.017	0.025	227380	455	545	615

[†] Ampacities are based on Table 310.15 (B)(16) of the NEC, 2017 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

