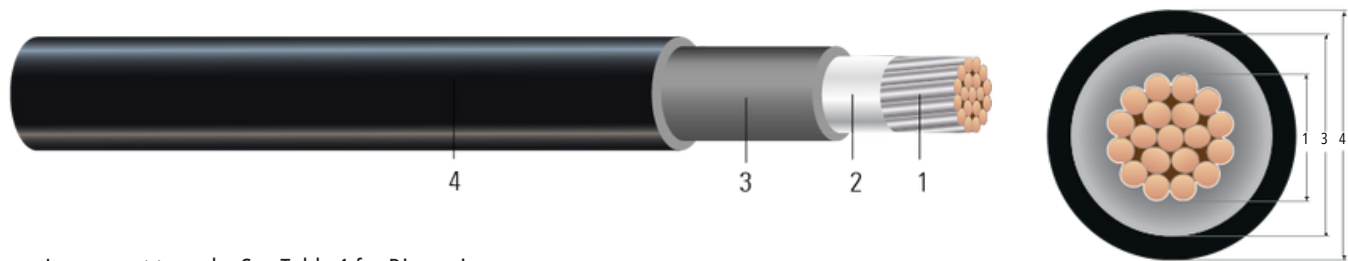


1/C CU 600V EPR RHH/RHW-2 USE-2 CPE Power Cable

Power Cable 600Volt Single Conductor Copper, Ethylene Propylene Rubber (EPR) insulation RHH/RHW-2 USE-2 Chlorinated Polyethylene (CPE) Jacket



Images not to scale. See Table 1 for Dimensions

CONSTRUCTION:

1. **Conductor:** Class B compressed stranded tinned copper per ASTM B33 and ASTM B8
2. **Binder Tape :** Mylar Tape
3. **Insulation:** Ethylene Propylene Rubber (EPR) Type RHH/RHW-2
4. **Overall Jacket :** Chlorinated Polyethylene (CPE) Jacket

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. Sunlight resistant.

SPECIFICATIONS:

- ASTM B33 Tinned Soft or Annealed Copper
- ASTM B8 Concentric-lay-standard copper
- UL 44 Thermoset Insulated wires And cables
- UL 1685 - Flame Test & VW-1
- 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 EXXXX #P# (UL) [#AWG Or #kcmil] CU RHH/RHW-2 USE-2 EPR/CPE 600V For CT USE SUN. RES. For DIRECT BURIAL FT4 VW-1YEAR (NESC) [SEQUENTIAL FEET MARKS]

Table 1 – Weights & Measurements

Stock Code	Cond. Size	Dia Over Cond. (1)	Insul. Thickness	Dia Over Insul. (3)	Jacket Thick-ness	Approx. OD (4)	Copper Weight	Approx. Weight
	AWG	inches	inches	inches	mils	inches	lbs./MFT	lbs./MFT
592004	8	0.139	45	0.229	15	0.259	51	73
589493	6	0.174	45	0.264	30	0.324	81	116
589492	4	0.221	45	0.311	30	0.371	129	171
589491	2	0.277	45	0.367	30	0.427	205	257
589490	1	0.321	55	0.431	30	0.491	258	322
589495 ◊	1/0	0.360	55	0.470	45	0.560	326	412
589496 ◊	2/0	0.404	55	0.514	45	0.604	411	506
592011 ◊	3/0	0.454	55	0.564	45	0.654	518	623
589500 ◊	4/0	0.510	55	0.620	45	0.710	653	769
589497 ◊	250	0.558	65	0.688	45	0.778	772	906
589499 ◊	350	0.661	65	0.791	65	0.921	1081	1273
589501 ◊	500	0.789	90	0.919	75	1.049	1544	1767
595421	600	0.866	80	1.026	65	1.200	1853	2316
592017 ◊	750	0.968	80	1.128	65	1.258	2316	2608
589488	1000	1.117	80	1.277	65	1.407	3088	3418

All dimensions are nominal and subject to normal manufacturing tolerances
 ◊ Standard stock item

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 @ 250C Ω/MFT	AC @ 900C Ω/MFT			60 OC Amps	75 OC Amps	90 OC Amps
592004	8	1.0	132	0.652	0.815	0.036	3754	40	50	55
589493	6	1.3	210	0.411	0.514	0.036	5966	55	65	75
589492	4	1.5	334	0.258	0.323	0.034	9491	70	85	95
589491	2	1.7	531	0.162	0.203	0.032	15089	95	115	130
589490	1	2.0	670	0.129	0.161	0.031	19029	110	130	145
589495 ◊	1/0	2.2	845	0.102	0.128	0.032	24011	125	150	170
589496 ◊	2/0	2.4	1065	0.081	0.102	0.031	30264	145	175	195
592011 ◊	3/0	2.6	1342	0.064	0.081	0.030	38154	165	200	225
589500 ◊	4/0	2.8	1693	0.051	0.064	0.029	48114	195	230	260
589497 ◊	250	3.1	2000	0.043	0.055	0.029	56845	215	255	290
589499 ◊	350	3.7	2800	0.031	0.039	0.029	79583	260	310	350
589501 ◊	500	5.2	4000	0.022	0.028	0.028	113690	320	380	430
595421	600	6.0	4800	0.018	0.024	0.028	136428	350	420	475
592017 ◊	750	6.3	6000	0.014	0.020	0.028	170535	400	475	535
589488	1000	7.0	8000	0.011	0.016	0.027	227380	455	545	615

† Ampacities are based on Table 310.15 (B)(16) of the NEC, 2014 Edition. Ampacities of insulated conductors rated up to and including 2000 Volts, based on ambient temperature of 30°C (86°F)

