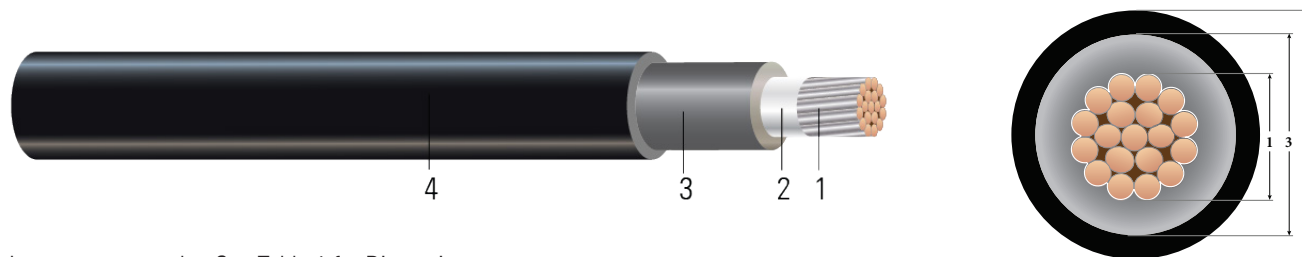


1/C CU 600V EPR RHH/RHW-2 USE-2 CPE Power Cable

Power Cable 600Volt Single Conductor Copper, Ethylene Propylene Rubber (EPR) insulation RHH/RHW-2 USE-2 Cross-Linked/Thermoset 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:** Cross-linked/Thermoset 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 EXXXXX #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 (NEC) [SEQUENTIAL FEET MARKS]



Southwire Company, LLC | One Southwire Drive, Carrollton, GA 30119 | www.southwire.com



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Table 1 – Weights & Measurements

Stock Code	Cond. Size	Dia Over Cond. (1)	Insul. Thickness	Dia Over Insul. (3)	Jacket Thickness	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	10000	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	Min. Bending Radius	Max. Pull Tension	Resistance		Reactance X _L @ 60Hz	Ø Short Circuit Current 6 Cycles	Allowable Ampacities †		
				DC @ 25°C	AC @ 90°C			60 °C	75 °C	90 °C
				Ω/MFT	Ω/MFT			Amps	Amps	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)

