

Multi-Conductor CU 600 V Shielded PE/PVC Insulation PVC Jacket Power Cable Color Method 1 Table 1

Power Cable 600 Volt Copper Conductors, Polyethylene Polyvinyl Chloride (PE/PVC) Insulation Shielded Polyvinyl Chloride (PVC) Jacket, Control Cable Conductor Identification Method 1 Table 1. Silicone Free



Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

1. **Conductor:** Class B compressed bare copper per ASTM B3 and ASTM B8
2. **Insulation:** Polyethylene (PE) and Polyvinyl Chloride (PVC)
3. **Filler:** Polypropylene filler on cables with 5 or less conductors
4. **Binder:** Polyester flat thread binder tape applied for cables with more than 5 conductors
5. **Shielding:** 5 mils tape shield
6. **Rip Cord:** Rip cord for ease of jacket removal
7. **Overall Jacket:** Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Southwire's 600 Volt control 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 75°C for normal operation in wet and dry locations, 90°C for emergency overload, and 150°C for short circuit conditions.

SPECIFICATIONS:

- ASTM B3 Standard Specification for Soft or Annealed Copper Wire
- ASTM B8 Concentric-Lay-Stranded Copper Conductors
- CSA *CSA marking is available upon request*
- ICEA S-58-679 Control Cable Conductor Identification Method 1 Table 1
- ICEA S-73-532 Standard for Control, Thermocouple Extension and Instrumentation Cables
- ICEA S-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

SOUTHWIRE XX AWG X/C PE CDRS SHIELDED 90C PVC JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V {MMM/DD/YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET



Table 1 – Physical and Electrical Data

Stock Number	Cond. Size	Cond. Number	Cond. Strands	Diameter Over Cond.	Insul. Thickness	Jacket Thickness	Approx. OD	Copper Weight	Approx. Weight	DC Resistance @ 25°C	AC Resistance @ 90°C	Min Bending Radius	Allowable Ampacity At 60°C *	Allowable Ampacity 75°C *
	AWG	No.	strands	inch	mil	mil	inch	lb /1000ft	lb /1000ft	Ω /1000ft	Ω /1000ft	inch	Amp	Amp
18 AWG														
606790	18	12	7	0.046	25	45	0.511	91	168	6.67	8.68	2.0	-	-
606773	8	2	7	0.142	60	60	0.672	143	269	0.653	0.849	8.1	40	50
620301	8	3	7	0.142	60	60	0.714	196	355	0.653	0.849	8.6	40	50
607397	8	5	7	0.142	60	80	0.895	308	537	0.653	0.849	10.7	32	40
606774	6	2	7	0.178	70	60	0.784	212	360	0.411	0.419	9.4	55	65
626304	6	4	7	0.178	70	80	0.956	381	648	0.411	0.535	11.5	44	52
626204	6	3	7	0.178	45	60	0.727	267	418	0.411	0.419	8.7	55	65
600899	6	5	7	0.178	70	80	1.047	472	772	0.411	0.535	12.6	44	52
626125	2	3	7	0.277	45	80	0.981	677	891	0.162	0.203	7	95	115
626186	1	2	19	0.321	55	80	1.050	583	815	0.129	0.131	7	110	130

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 310.15 (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)

! Type XHHW-2 insulation instead of PE/PVC

