

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

Power Cable 600 Volt Copper Conductors, Polyethylene and Polyvinyl Chloride (PE/PVC) Insulation 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:** 7 strands 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. **Rip Cord:** Rip cord for ease of jacket removal
6. **Overall Jacket:** Polyvinyl Chloride (PVC) 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 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-95-658 (NEMA WC70) Power Cables Rated 2000 Volts or Less for the Distribution of Electrical Energy

SAMPLE PRINT LEGEND:

Non UL Listed

SOUTHWIRE XX AWG X/C PE/PVC CDRS 75C PVC JACKET SUNLIGHT RESISTANT DIRECT BURIAL 600V {MM/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
617347^	9	2	19	0.127	30	45	0.472	77	135	0.809	0.996	1.9	35	45
617349^	9	4	19	0.127	30	60	0.579	155	247	0.809	0.996	2.3	28	36
TBA^	9	5	19	0.127	30	60	0.6357	204	309	0.809	0.996	2.5	28	36
617350^	9	8	19	0.127	30	60	0.747	309	447	0.809	0.996	3.0	25	32
606784	8	2	7	0.142	60	60	0.652	103	241	0.653	0.849	2.5	40	50
619121	8	2	7	0.142	60	60	0.652	103	221	0.653	0.849	2.6	40	50
618426	8	3	7	0.142	60	60	0.694	165	312	0.653	0.849	2.8	40	50
661502	8	4	19	0.142	60	60	0.793	206	373	0.653	0.849	3.2	32	40
620288	8	5	7	0.142	60	80	0.875	258	483	0.653	0.849	3.5	32	40
606775	6	2	7	0.178	70	60	0.764	164	322	0.411	0.535	3.1	55	65
606763	6	3	7	0.178	70	60	0.867	246	482	0.411	0.535	3.5	55	65
619125	4	2	7	0.232	70	80	0.911	260	480	0.258	0.336	3.6	70	85

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)

^ 19 Strand Class C

