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

Control 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:** 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. **Shielding:** 5 mil copper Helically-Applied 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 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 Control, Thermocouple Extension, and Instrumentation Cables (applicable to sizes 20-9 AWG conductors)
- 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/PVC CDRS 600V SHIELDED PVC JKT SUN. RES. DIRECT BURIAL {MM/DD/YYYY} {SEQUENTIAL FOOTAGE MARKS} SEQ FEET

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

UPDATED: Dec. 31, 2024, 11:09 p.m.UTC REVISION: 1.000.002

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 @ 75°C	Inductive Rectance	Min Bending Radius	Allowable Ampacity 75°C	Allowable Ampacity 90°C	Jacket Color
	AWG	No.	strands	inch	mil	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp	
18 AWG																
TBA	18	2	7	0.046	25	45	0.288	44	69	6.669	8.277	0.036	2	-	14	BK
606785	18	3	7	0.046	15	45	0.314	15	53	6.669	8.277	0.036	2.2	-	14	BK
606789	18	7	7	0.046	15	45	0.418	58	116	6.669	8.277	0.036	2.9	-	10	BK
606790	18	12	7	0.046	15	60	0.566	92	194	6.669	8.277	0.036	4	-	7	BK
14 AWG																
606767	14	7	7	0.071	20	60	0.555	120	220	2.631	3.265	0.058	3.9	14	18	BK
618969	14	12	7	0.071	20	60	0.707	195	340	2.631	3.265	0.058	4.9	10	12	BK
12 AWG																
618721	12	2	7	0.089	20	45	0.421	64	115	1.662	2.063	0.054	2.9	25	30	BK
618722	12	3	7	0.089	20	45	0.446	86	147	1.662	2.063	0.054	3.1	25	30	BK
618723	12	4	7	0.089	20	45	0.484	109	182	1.662	2.063	0.054	3.4	20	24	BK
618724	12	7	7	0.089	20	60	0.609	177	291	1.662	2.063	0.054	4.3	18	21	BK
617106	12	12	7	0.089	20	60	0.777	296	453	1.662	2.063	0.054	5.4	12	15	BK
10 AWG																
606768	10	2	7	0.113	20	45	0.472	92	159	1.04	1.291	0.05	3.3	35	40	BK
619162	10	3	7	0.113	20	45	0.501	126	201	1.04	1.291	0.05	3.5	35	40	BK
617105	10	4	7	0.113	20	60	0.573	161	253	1.04	1.291	0.05	4	28	32	BK
620881	10	4	7	0.113	20	60	0.578	162	259	1.04	1.291	0.05	4	28	32	BK
606769	10	5	7	0.113	20	60	0.628	198	309	1.04	1.291	0.05	4.4	28	32	BK
618968	10	7	7	0.113	20	60	0.677	271	403	1.04	1.291	0.05	4.7	24	28	BK
622296	10	7	7	0.113	20	60	0.681	265	398	1.04	1.291	0.05	4.8	24	28	BK
606770	10	9	7	0.113	20	60	0.789	345	506	1.04	1.291	0.05	5.5	24	28	BK
606771	10	12	7	0.113	20	80	0.929	448	683	1.04	1.291	0.05	6.5	18	20	BK
8 AWG																
606773	8	2	7	0.142	45	60	0.686	142	275	0.653	0.81	0.052	4.8	50	55	BK
620301	8	3	7	0.142	45	60	0.729	196	353	0.653	0.81	0.052	5.1	50	55	BK
607397	8	5	7	0.142	45	80	0.916	315	559	0.653	0.81	0.052	6.4	40	44	BK
6 AWG																
606774	6	2	7	0.178	45	60	0.798	210	368	0.411	0.51	0.051	5.6	65	75	BK
TBA	6	3	7	0.178	70	60	0.813	349	521	0.411	0.51	0.051	5.7	65	75	BK
626304	6	4	7	0.178	45	80	0.974	382	664	0.411	0.51	0.051	6.8	52	60	BK
600899	6	5	7	0.178	45	80	1.051	476	784	0.411	0.51	0.051	7.4	52	60	BK
2 AWG																
662238	2	2	7	0.283	45	80	1.038	480	747	0.162	0.201	0.045	7.3	115	130	BK
TBA	2	3	7	0.283	70	80	1.08	756	1028	0.162	0.201	0.045	7.6	115	130	BK

All dimensions are nominal and subject to normal manufacturing tolerances

◊ Cable marked with this symbol is a standard stock item

* Ampacities based upon 2023 NEC Table 310.16 and do not take into account the overcurrent protection limitations in NEC 240.4(D) of 15 Amps for 14 AWG CU, 20 Amps for 12 AWG CU, and 30 Amps for 10 AWG CU (independent of the conductor temperature rating and stranding if size is present in table). Also, see NEC sections

Copyright © 2026 Southwire Company, LLC. All Rights Reserved

310.15 and 110.14(C) for additional requirements. Ampacities have been adjusted for stock numbers containing more than Three Current-Carrying Conductors.
TBA stock codes are estimations only and actual product may vary. Please wait until a stock code is assigned to purchase connectors and/or fittings.

Copyright © 2026 Southwire Company, LLC. All Rights Reserved