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 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

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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																
606786	18	7	7	0.046	15	45	0.398	35	91	6.669	8.277	0.036	1.6	-	10	BK
606787	18	12	7	0.046	15	45	0.514	61	143	6.669	8.277	0.036	2.1	-	7	BK
16 AWG																
619127	16	2	7	0.057	20	45	0.34	16	57	4.181	5.189	0.033	1.4	-	18	BK
619128	16	4	7	0.057	20	45	0.39	32	84	4.181	5.189	0.033	1.6	-	14	BK
669064	16	5	7	0.057	20	45	0.425	40	99	4.181	5.189	0.033	1.7	-	14	BK
671351	16	12	7	0.057	20	60	0.634	97	216	4.181	5.189	0.033	2.5	-	9	BK
14 AWG																
620646	14	4	7	0.071	20	45	0.424	51	110	2.631	3.265	0.058	1.7	16	20	BK
606776	14	7	7	0.071	20	45	0.494	90	167	2.631	3.265	0.058	2	14	18	BK
606777	14	12	7	0.071	20	60	0.692	154	298	2.631	3.265	0.058	2.8	10	12	BK
12 AWG																
616691!	12	2	7	0.089	20	45	0.404	41	89	1.662	2.063	0.054	1.6	25	30	BK
619170	12	3	7	0.089	20	45	0.429	61	121	1.662	2.063	0.054	1.7	25	30	BK
616856	12	4	7	0.089	20	45	0.468	81	153	1.662	2.063	0.054	1.9	20	24	BK
622090	12	4	7	0.089	20	45	0.468	81	148	1.662	2.063	0.054	1.9	20	24	BK
617416	12	5	7	0.089	20	60	0.544	102	192	1.662	2.063	0.054	2.2	20	24	BK
619173	12	6	7	0.089	20	60	0.589	122	227	1.662	2.063	0.054	2.4	20	24	BK
606896	12	7	7	0.089	20	60	0.589	143	254	1.662	2.063	0.054	2.4	18	21	BK
617421	12	7	7	0.089	20	60	0.589	143	253	1.662	2.063	0.054	2.4	18	21	BK
619382	12	9	7	0.089	20	60	0.67	183	314	1.662	2.063	0.054	2.7	18	21	BK
617420!	12	12	7	0.089	20	60	0.767	244	403	1.662	2.063	0.054	3.1	12	15	BK
619383	12	12	7	0.089	20	60	0.767	244	409	1.662	2.063	0.054	3.1	12	15	BK
619993$	12	12	19	0.09	20	60	0.771	245	409	1.662	2.063	0.054	3.1	12	15	BK
10 AWG																
606778	10	2	7	0.113	20	45	0.452	65	127	1.04	1.291	0.05	1.8	35	40	BK
618719	10	2	7	0.113	20	45	0.452	65	123	1.04	1.291	0.05	1.8	35	40	BK
619117	10	3	7	0.113	20	45	0.481	97	170	1.04	1.291	0.05	1.9	35	40	BK
606779	10	3	7	0.113	20	45	0.481	97	170	1.04	1.291	0.05	1.9	35	40	BK
616733	10	4	7	0.113	20		0.552	129	225	1.04	1.291	0.05	2.2	28	32	BK
618720	10	4	7	0.113	20	60	0.558	129	232	1.04	1.291	0.05	2.2	28	32	BK
619301	10	4	7	0.113	20	60	0.558	129	232	1.04	1.291	0.05	2.2	28	32	BK
606781	10	5	7	0.113	20	60	0.608	162	279	1.04	1.291	0.05	2.4	28	32	BK
619178	10	7	7	0.113	20	60	0.661	227	357	1.04	1.291	0.05	2.6	24	28	BK
619179	10	8	7	0.113	20	60	0.716	259	399	1.04	1.291	0.05	2.9	24	28	BK
606782	10	9	7	0.113	20	60	0.769	291	455	1.04	1.291	0.05	3.1	24	28	BK
619181	10	10	7	0.113	20	80	0.88	324	535	1.04	1.291	0.05	3.5	18	20	BK
619119	10	12	7	0.113	20	80	0.906	388	634	1.04	1.291	0.05	3.6	18	20	BK
606783	10	12	7	0.113	20	80	0.909	388	620	1.04	1.291	0.05	3.6	18	20	BK

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	AWG	No.	strands	inch	mil	mil	inch	lb / 1000ft	lb / 1000ft	Ω /1000ft	Ω /1000ft	Ω/1000ft	inch	Amp	Amp	
618911$	10	12	19	0.117	20	80	0.888	388	599	1.04	1.291	0.05	3.6	18	20	BK
617347	9	2	19	0.131	20	45	0.48	77	138	0.825	1.024	0.051	1.9			BK
617349	9	4	19	0.131	20	60	0.591	154	253	0.825	1.024	0.051	2.4			BK
617350	9	8	19	0.131	20	60	0.763	309	457	0.825	1.024	0.051	3.1			BK
8 AWG																
619121	8	2	7	0.142	45	60	0.666	103	228	0.653	0.81	0.052	2.7	50	55	BK
606784	8	2	7	0.142	45	60	0.666	103	249	0.653	0.81	0.052	2.7	50	55	BK
618426	8	3	7	0.142	45	60	0.709	154	321	0.653	0.81	0.052	2.8	50	55	BK
620288	8	5	7	0.142	45	80	0.896	257	498	0.653	0.81	0.052	3.6	40	44	BK
661502	8	4	19	0.143	45	60	0.78	206	384	0.653	0.81	0.052	3.1	40	44	BK
6 AWG																
606775	6	2	7	0.178	45	60	0.778	164	331	0.411	0.51	0.051	3.1	65	75	BK
606763	6	3	7	0.178	45	80	0.872	246	490	0.411	0.51	0.051	3.5	65	75	BK
4 AWG																
619125	4	2	7	0.225	45	80	0.928	260	492	0.258	0.32	0.048	3.7	85	95	BK
619132	4	3	7	0.225	45	80	0.988	390	700	0.258	0.32	0.048	4	85	95	BK
2 AWG																
619133	2	2	7	0.283	45	80	1.01	414	669	0.162	0.201	0.045	5	115	130	BK
619134	2	3	7	0.283	45	80	1.086	621	937	0.162	0.201	0.045	5.4	115	130	BK

All dimensions are nominal and subject to normal manufacturing tolerances
◊ Cable marked with this symbol is a standard stock item
$ 19 strand combination unilay conductor per ASTM B787
! No rip cord
* 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 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.

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