



CONSTRUCTION:

1. Conductor: 7 strands class B compressed bare copper per ASTM B3 and ASTM B8
2. Insulation: Polyethylene (PE) 20 Mils thick and Polyvinyl Chloride (PVC) 10 Mils thick for all cable sizes
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 Chord: Rip chord for ease of jacket removal
6. Overall Jacket: Polyvinyl Chloride (PVC) Jacket

APPLICATIONS AND FEATURES:

Cable-uni'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 90° C for normal operation in wet and dry locations, 130° C for emergency overload, and 250° 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
- IEEE 1202 FT4 Vertical Tray Flame Test (70,000 Btu/hr) and ICEA T-29-520 - (210,000 Btu/hr)
- VW-1 (Vertical-Wire) Flame Test

Table 1 – Physical and Electrical Data

Con d. Size	Cond. Number	Diame ter Over Cond.	Insul. Thickn ess	Jacket Thickn ess	Appr ox. OD	Copper Weight	Approx. Weight	DC Resistan ce	AC Resistan ce @ 90°C	Min Bendi ng Radiu s	Allowa ble Ampac ity At 60°C *	Allowa ble Ampac ity 75°C *	Allowa ble Ampaci ty 90°C *
AW G	No.	inch	mil	mil	inch	lb/1000ft	lb/1000ft	Ω/1000ft	Ω/1000ft	inch	Amp	Amp	Amp
14 AWG													
14	2	0.070	30	45	0.349	26	68	2.630	3.288	1.4	15	15	15
14	3	0.070	30	45	0.378	38	92	2.630	3.288	1.5	15	15	15
14	4	0.070	30	45	0.403	51	109	2.630	3.288	1.6	14	15	15
14	5	0.070	30	45	0.440	64	132	2.630	3.288	1.8	14	15	15
14	6	0.070	30	45	0.479	77	155	2.630	3.288	1.9	14	15	15
14	7	0.070	30	45	0.479	90	171	2.630	3.288	1.9	12	15	15
14	8	0.070	30	45	0.519	102	195	2.630	3.288	2.1	12	15	15
14	9	0.070	30	60	0.588	115	236	2.630	3.288	2.4	12	15	15

14	10	0.070	30	60	0.638	128	266	2.630	3.288	2.6	9	11	12
14	12	0.070	30	60	0.659	154	303	2.630	3.288	2.6	9	11	12
14	15	0.070	30	60	0.730	192	371	2.630	3.288	2.9	9	11	12
14	19	0.070	30	60	0.768	243	446	2.630	3.288	3.1	9	11	12
14	20	0.070	30	60	0.808	256	475	2.630	3.288	3.2	9	11	12
14	25	0.070	30	80	0.937	320	619	2.630	3.288	3.7	8	9	11
14	30	0.070	30	80	0.991	384	719	2.630	3.288	4.0	8	9	11
14	37	0.070	30	80	1.067	474	862	2.630	3.288	5.3	7	8	10
12 AWG													
12	2	0.087	30	45	0.384	41	90	1.660	2.075	1.5	20	20	20
12	3	0.087	30	45	0.408	61	118	1.660	2.075	1.6	20	20	20
12	4	0.087	30	45	0.445	81	148	1.660	2.075	1.8	16	20	20
12	5	0.087	30	45	0.487	102	181	1.660	2.075	1.9	16	20	20
12	6	0.087	30	45	0.532	122	214	1.660	2.075	2.1	16	20	20
12	7	0.087	30	45	0.532	143	237	1.660	2.075	2.1	14	17	20
12	8	0.087	30	60	0.607	163	288	1.660	2.075	2.4	14	17	20
12	9	0.087	30	60	0.651	183	324	1.660	2.075	2.6	14	17	20
12	10	0.087	30	60	0.709	204	365	1.660	2.075	2.8	10	12	15
12	12	0.087	30	60	0.732	244	419	1.660	2.075	2.9	10	12	15
12	12	0.087	30	60	0.732	244	419	1.660	2.075	2.9	10	12	15
12	15	0.087	30	60	0.813	305	516	1.660	2.075	3.3	10	12	15
12	19	0.087	30	80	0.896	387	657	1.660	2.075	3.6	10	12	15
12	20	0.087	30	80	0.942	407	699	1.660	2.075	3.8	10	12	15
12	25	0.087	30	80	1.043	509	860	1.660	2.075	5.2	9	11	13
12	30	0.087	30	80	1.104	611	1005	1.660	2.075	5.5	9	11	13
12	37	0.087	30	80	1.191	753	1211	1.660	2.075	6.0	8	10	12
12	2	0.087	30	45	392.4	41	112	1.660	2.075	1.5	20	20	20
10 AWG													
10	2	0.111	30	45	0.431	65	124	1.040	1.300	1.7	30	30	30
10	3	0.111	30	45	0.459	97	165	1.040	1.300	1.8	30	30	30
10	3	0.111	30	45	0.467	97	202	1.040	1.300	1.8	30	30	30
10	4	0.111	30	45	0.502	130	210	1.040	1.300	2.0	24	28	30
10	5	0.111	30	60	0.581	162	273	1.040	1.300	2.3	24	28	30
10	6	0.111	30	60	0.632	194	323	1.040	1.300	2.5	24	28	30
10	7	0.111	30	60	0.632	227	358	1.040	1.300	2.5	21	24	28
10	8	0.111	30	60	0.685	259	410	1.040	1.300	2.7	21	24	28
10	9	0.111	30	60	0.736	291	461	1.040	1.300	2.9	21	24	28
10	10	0.111	30	60	0.803	324	519	1.040	1.300	3.2	15	17	20
10	12	0.111	30	60	0.830	389	600	1.040	1.300	3.3	15	17	20
10	15	0.111	30	80	0.964	486	777	1.040	1.300	3.9	15	17	20
10	19	0.111	30	80	1.014	615	941	1.040	1.300	5.1	15	17	20
10	20	0.111	30	80	1.067	648	1001	1.040	1.300	5.3	15	17	20
10	25	0.111	30	80	1.184	810	1236	1.040	1.300	5.9	13	15	18
10	30	0.111	30	80	1.254	971	1450	1.040	1.300	6.3	13	15	18

10	37	0.111	30	80	1.355	1198	1755	1.040	1.300	6.8	12	14	16
14	2	0.070	30	45	0.349	26	68	2.630	3.288	1.4	15	15	15