



Control Cable POLY-PVC / PVC 600V

APPLICATIONS

For use as general purpose multi-conductor control cable rated 600 volts in control circuits in industrial plants and as station control cable for utilities. Recommended for operation at 75°C maximum continuous conductor temperature. For Non NEC applications, cables can be installed in air, ducts or conduits, tray or trough and direct burial.

STANDARDS

Cables meet or exceed all applicable requirements of the following standards:

- ASTM B-8, Standard Specification for Concentric lay-stranded copper conductor, hard, medium-hard, or soft.
- ICEA S-73-532/NEMA WC 57, Standard for Control, Thermocouple Extension, and Instrumentation Cables

CONSTRUCTION

- Conductor: Class B stranded uncoated annealed copper.
- Insulation: Extruded black high molecular weight, low density polyethylene compound (PE).
- Insulation Covering: Extruded color coded Polyvinyl Chloride compound (PVC).
- Circuit Identification: Appendix E, Method 1 – Colored Compounds with Tracers per Table E-1 of ICEA S-73-532.
- Assembly: Two conductor cable shall be flat without separator tape, unless otherwise specified. For three or more conductors, the insulated color coded conductors shall be cabled together with nonhygroscopic fillers, as needed to form a round core. A suitable binding tape shall be applied over the cable assembly.
- Overall Jacket: Sunlight resistant, extruded Polyvinyl Chloride compound (PVC).

OPTIONS

- Overall Shield: Uncoated Copper tape shield, available upon request.

Phoenix Wire and Cable Corp.

1255 Buford Highway; Suite 202, Suwanee GA 30024

Phone: (770) 904 4135; Fax: (770) 904 4139

E-mail: pwc@phoenixwc.com

web site: www.phoenixwc.com



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Multi-Conductor PE-PVC Insulation, PVC Jacket, 600 Volts

Size (AWG / kcmil)	Number of Conductors	Thickness Insulation		Thickness	Overall	Weight (lbs/1000 ft)
		PE (Mils)	PVC (Mils)	Overall Jacket (Mils)	Diameter (Inches)	
14*	2	20	10	45	0.235 x 0.365	68
14	3	20	10	45	0.390	88
14	4	20	10	45	0.425	109
14	5	20	10	45	0.458	131
14	7	20	10	45	0.505	178
14	9	20	10	60	0.615	240
14	12	20	10	60	0.685	303
14	15	20	10	60	0.758	370
14	19	20	10	60	0.815	450
14	25	20	10	80	0.955	620
14	37	20	10	80	1.130	865
12*	2	20	10	45	0.250 x 0.410	90
12	3	20	10	45	0.435	120
12	4	20	10	45	0.475	152
12	5	20	10	45	0.513	185
12	7	20	10	60	0.600	258
12	9	20	10	60	0.683	330
12	12	20	10	60	0.770	420
12	15	20	10	60	0.870	513
12	19	20	10	80	0.955	668
12	25	20	10	80	1.090	865
12	37	20	10	80	1.265	1245
10*	2	20	10	45	0.275 x 0.460	124
10	3	20	10	45	0.485	164
10	4	20	10	60	0.565	225
10	5	20	10	60	0.605	270
10	7	20	10	60	0.665	360
10	9	20	10	60	0.768	448
10	12	20	10	80	0.905	620
10	15	20	10	80	0.995	755
10	19	20	10	80	1.070	938
10	25	20	10	80	1.225	1203
10	37	20	10	80	1.425	1728

* Flat Construction.

Dimensions and weights shown are nominal, subject to industry tolerances.

Other constructions are available upon request.

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Appendix E, Method 1 – Table E-1 of ICEA S-73-532.

Conductor Number	Background or Base Color	First Tracer Color	Second Tracer Color
1	Black		
2	White		
3	Red		
4	Green		
5	Orange		
6	Blue		
7	White	Black	
8	Red	Black	
9	Green	Black	
10	Orange	Black	
11	Blue	Black	
12	Black	White	
13	Red	White	
14	Green	White	
15	Blue	White	
16	Black	Red	
17	White	Red	
18	Orange	Red	
19	Blue	Red	
20	Red	Green	
21	Orange	Green	
22	Black	White	Red
23	White	Black	Red
24	Red	Black	White
25	Green	Black	White
26	Orange	Black	White
27	Blue	Black	White
28	Black	Red	Green
29	White	Red	Green
30	Red	Black	Green
31	Green	Black	Orange
32	Orange	Black	Green
33	Blue	White	Orange
34	Black	White	Orange
35	White	Red	Orange
36	Orange	White	Blue

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