

Substation Control Cable - Unshielded



APPLICATION:

Substation Control Cable is a general purpose control cable, which is primarily used in industrial and utility applications, for distribution or control circuits and for the interconnection of operation of protective devices. Substation Control Cable can be installed in open air, in ducts or conduits, in trays or troughs and direct burial applications. Substation 20/10 Control Cable is for circuits up to 600 volts and temperatures up to 75°C.

CONDUCTORS:

- Stranded annealed bare copper conductor, per ASTM B3 & B8

COLOR CODE:

ICEA S-73-532, METHOD 1, TABLE E-1

Cond #	Color	Tracer	Cond #	Color	Tracer	Cond #	Color	Tracer
1	Black	--	8	Red	Black	15	Blue	White
2	White	--	9	Green	Black	16	Black	Red
3	Red	--	10	Orange	Black	17	White	Red
4	Green	--	11	Blue	Black	18	Orange	Red
5	Orange	--	12	Black	White	19	Blue	Red
6	Blue	--	13	Red	White	20	Red	Green
7	White	Black	14	Green	White	21	Orange	Green

For more than 21 conductors, the color sequence shall be repeated as necessary.

Part Number	Conductor Size	No. of Conductors	Insulation Thickness	Overall PVC Jacket	Overall Diameter		Net Weight
	AWG		PE/PVC inches	inches	inches	mm	lbs/kft
15/10 PE/PVC - 7 Strand							
18-03-15/10CON	18	3	0.015 / 0.010	0.045	0.294	7.47	47
18-04-15/10CON	18	4	0.015 / 0.010	0.045	0.319	8.10	58
18-07-15/10CON	18	7	0.015 / 0.010	0.045	0.378	9.60	89
18-12-15/10CON	18	12	0.015 / 0.010	0.045	0.490	12.45	142
20/10 PE/PVC - 7 Strand							
14-04-20/10CON	14	4	0.020 / 0.010	0.045	0.411	10.44	106
14-07-20/10CON	14	7	0.020 / 0.010	0.045	0.492	12.50	170
14-12-20/10CON	14	12	0.020 / 0.010	0.060	0.678	17.22	299

INSULATION:

- Heat and moisture resistant colored combination insulation of polyethylene (PE) and polyvinyl chloride (PVC)

JACKET:

- Black polyvinyl chloride (PVC), which is heat, moisture and sunlight resistant

STANDARDS:

- ICEA S-73-532/NEMA WC 57
- Direct burial
- Sunlight resistant
- REACH compliant



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Part Number	Conductor Size	No. of Conductors	Insulation Thickness	Overall PVC Jacket	Overall Diameter		Net Weight
	AWG		PE/PVC inches	inches	inches	mm	lbs/kft
20/10 PE/PVC - 7 Strand							
12-02-20/10CON	12	2	0.020 / 0.010	0.045	0.393	9.98	93
12-03-20/10CON	12	3	0.020 / 0.010	0.045	0.415	10.54	121
12-04-20/10CON	12	4	0.020 / 0.010	0.045	0.454	11.53	147
12-07-20/10CON	12	7	0.020 / 0.010	0.060	0.591	15.01	256
12-08-20/10CON	12	8	0.020 / 0.010	0.060	0.622	15.80	291
12-09-20/10CON	12	9	0.020 / 0.010	0.060	0.690	17.53	330
12-12-20/10CON	12	12	0.020 / 0.010	0.060	0.749	19.02	413
10-02-20/10CON	10	2	0.020 / 0.010	0.045	0.439	11.15	128
10-03-20/10CON	10	3	0.020 / 0.010	0.045	0.465	11.81	128
10-04-20/10CON	10	4	0.020 / 0.010	0.045	0.513	13.03	214
10-05-20/10CON	10	5	0.020 / 0.010	0.060	0.609	15.47	286
10-07-20/10CON	10	7	0.020 / 0.010	0.060	0.642	16.31	356
10-08-20/10CON	10	8	0.020 / 0.010	0.060	0.696	17.68	409
10-09-20/10CON	10	9	0.020 / 0.010	0.060	0.749	19.02	451
10-12-20/10CON	10	12	0.020 / 0.010	0.080	0.884	22.45	629
30/15 PE/PVC - 7 Strand							
18-02-30/15CON	18	2	0.030 / 0.015	0.045	0.390	10.16	62
14-06-30/15CON	14	6	0.030 / 0.015	0.060	0.635	16.51	220
12-02-30/15CON	12	2	0.030 / 0.015	0.045	0.470	11.94	102
12-04-30/15CON	12	4	0.030 / 0.015	0.060	0.580	14.73	188
10-04-30/15CON	10	4	0.030 / 0.015	0.060	0.640	16.26	250
10-08-30/15CON	10	8	0.030 / 0.015	0.080	0.900	22.86	490
6-04-30/15CON	6	4	0.030 / 0.015	0.060	0.800	20.32	495
45/15 PE/PVC - 7 Strand							
8-02-45/15CON	8	2	0.045 / 0.015	0.060	0.645	16.38	238
8-03-45/15CON	8	3	0.045 / 0.015	0.060	0.684	17.37	309
8-12-45/15CON	8	12	0.045 / 0.015	0.080	1.249	31.72	1066
45/25 PE/PVC - 7 Strand							
6-02-45/25CON	6	2	0.045 / 0.025	0.060	0.774	19.66	351
6-03-45/25CON	6	3	0.045 / 0.025	0.080	0.863	21.92	500
4-03-45/25CON	4	3	0.045 / 0.025	0.080	0.966	24.54	673
45/30 PE/PVC - 7 Strand							
4-01-45/30CON	4	1	0.045 / 0.030	---	0.382	9.70	171
2-01-45/30CON	2	1	0.045 / 0.030	---	0.435	11.05	254

All values are nominal and subject to correction.



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