

Substation Control Cable - Shielded



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

INSULATION:

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

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-SHD-15/10CON	18	3	0.015 / 0.010	0.045	0.307	7.80	76
18-04-SHD-15/10CON	18	4	0.015 / 0.010	0.045	0.332	8.43	89
18-07-SHD-15/10CON	18	7	0.015 / 0.010	0.045	0.388	9.86	116
18-12-SHD-15/10CON	18	12	0.015 / 0.010	0.045	0.497	12.62	177
20/10 PE/PVC - 7 Strand							
14-07-SHD-20/10CON	14	7	0.020 / 0.010	0.045	0.499	12.67	206
12-02-SHD-20/10CON	12	2	0.020 / 0.010	0.045	0.403	10.24	128
10-02-SHD-20/10CON	10	2	0.020 / 0.010	0.045	0.449	11.40	154



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	AWG		PE/PVC inches	inches	inches	mm	lbs/kft
20/10 PE/PVC - 7 Strand							
10-03-SHD-20/10CON	10	3	0.020 / 0.010	0.045	0.475	12.07	202
10-04-SHD-20/10CON	10	4	0.020 / 0.010	0.060	0.550	13.97	267
10-05-SHD-20/10CON	10	5	0.020 / 0.010	0.060	0.969	24.61	719
10-08-SHD-20/10CON	10	8	0.020 / 0.010	0.060	0.706	17.93	458
10-09-SHD-20/10CON	10	9	0.020 / 0.010	0.060	0.759	19.28	505
10-12-SHD-20/10CON	10	12	0.020 / 0.010	0.080	0.891	22.63	688
30/15 PE/PVC - 7 Strand							
18-02-SHD-30/15CON	18	2	0.030 / 0.015	0.045	0.400	10.16	87
14-06-SHD-30/15CON	14	6	0.030 / 0.015	0.060	0.650	16.51	259
12-02-SHD-30/15CON	12	2	0.030 / 0.015	0.045	0.478	12.14	142
10-02-SHD-30/15CON	10	2	0.030 / 0.015	0.060	0.570	14.48	201
10-04-SHD-30/15CON	10	4	0.030 / 0.015	0.060	0.650	16.51	307
10-08-SHD-30/15CON	10	8	0.030 / 0.015	0.080	0.910	23.11	581
6-04-SHD-30/15CON	6	4	0.030 / 0.015	0.060	0.820	20.83	571
45/15 PE/PVC - 7 Strand							
8-02-SHD-45/15CON	8	2	0.045 / 0.015	0.060	0.655	16.64	272
8-03-SHD-45/15CON	8	3	0.045 / 0.015	0.060	0.694	17.63	357
8-05-SHD-45/15CON	8	5	0.045 / 0.015	0.080	0.878	22.30	570
45/25 PE/PVC - 7 Strand							
6-02-SHD-45/25CON	6	2	0.045 / 0.025	0.060	0.778	19.76	411
6-03-SHD-45/25CON	6	3	0.045 / 0.025	0.080	0.870	22.10	563
6-09-SHD-45/25CON	6	9	0.045 / 0.025	0.080	1.346	34.19	1374
4-03-SHD-45/25CON	4	3	0.045 / 0.025	0.080	0.976	24.79	738
45/30 PE/PVC - 7 Strand							
4-01-SHD-45/30CON	4	1	0.045 / 0.030	0.045	0.487	12.37	291
2-01-SHD-45/30CON	2	1	0.045 / 0.030	0.045	0.535	13.59	382

All values are nominal and subject to correction.



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