

Caledonian Cables Manufacture

CVV

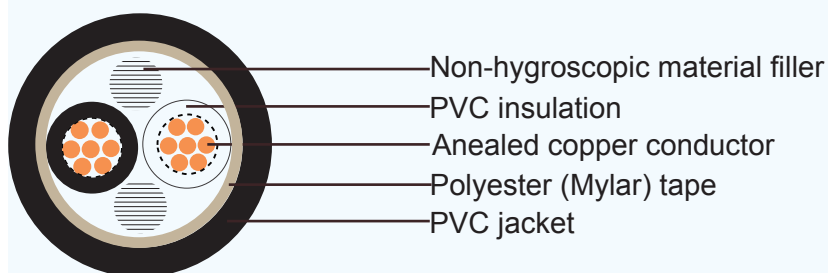
Application and Description:

For supervisory electrical equipment, station control circuits, outdoor, suitable installation in dry or wet cable trenches.

Reference Standard:

IEC 60502-1

Cable Construction:



Conductor: Stranded annealed copper wires, Sizes: 0.5 mm² up to 6 mm²

Insulation: Polyvinyl chloride (PVC)

Color : 2-4 cores-Black, White, Red and Green ,More than 4 cores: Black core with marking numbers

Filler: Non-hygroscopic material(optional)

Binding tape: Polyester (Mylar) tape (optional)

Sheath: Polyvinyl chloride (PVC), Black color (A special flame retardant sheath can be supplied)

Technical Characteristics:

Maximum conductor temperature 70°C

Circuit voltage not exceeding 600 volts

Test voltage 3500 volts





Cable Parameter:

No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
2	0.5	7/0.30	0.9	0.8	1.8	9.5	36	0.0162	100
	0.75	7/0.37	1.11	0.8	1.8	10	24.5	0.0142	110
	1	7/0.43	1.29	0.8	1.8	10.5	18.1	0.0128	120
	1.5	7/0.52	1.56	0.8	1.8	11	12.1	0.0112	140
	2.5	7/0.67	2.01	0.8	1.8	12	7.41	0.0093	180
	4	7/0.85	2.55	1	1.8	14	4.61	0.0092	250
	6	7/1.04	3.12	1	1.8	15.5	3.08	0.0078	310
3	0.5	7/0.30	0.9	0.8	1.8	10	36	0.0162	110
	0.75	7/0.37	1.11	0.8	1.8	10.5	24.5	0.0142	130
	1	7/0.43	1.29	0.8	1.8	11	18.1	0.0128	140
	1.5	7/0.52	1.56	0.8	1.8	12	12.1	0.0112	170
	2.5	7/0.67	2.01	0.8	1.8	13	7.41	0.0093	210
	4	7/0.85	2.55	1	1.8	15	4.61	0.0092	310
	6	7/1.04	3.12	1	1.8	16	3.08	0.0078	390
4	0.5	7/0.30	0.9	0.8	1.8	11	36	0.0162	130
	0.75	7/0.37	1.11	0.8	1.8	11.5	24.5	0.0142	150
	1	7/0.43	1.29	0.8	1.8	12	18.1	0.0128	170
	1.5	7/0.52	1.56	0.8	1.8	12.5	12.1	0.0112	200
	2.5	7/0.67	2.01	0.8	1.8	14	7.41	0.0093	260
	4	7/0.85	2.55	1	1.8	16	4.61	0.0092	380
	6	7/1.04	3.12	1	1.8	17.5	3.08	0.0078	490
5	0.5	7/0.30	0.9	0.8	1.8	12	36	0.0162	150
	0.75	7/0.37	1.11	0.8	1.8	12.5	24.5	0.0142	180
	1	7/0.43	1.29	0.8	1.8	13	18.1	0.0128	200
	1.5	7/0.52	1.56	0.8	1.8	13.5	12.1	0.0112	240
	2.5	7/0.67	2.01	0.8	1.8	15	7.41	0.0093	320
	4	7/0.85	2.55	1	1.8	17.5	4.61	0.0092	470
	6	7/1.04	3.12	1	1.8	19	3.08	0.0078	600

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No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
6	0.5	7/0.30	0.9	0.8	1.8	12.5	36	0.0162	160
	0.75	7/0.37	1.11	0.8	1.8	13.5	24.5	0.0142	190
	1	7/0.43	1.29	0.8	1.8	14	18.1	0.0128	220
	1.5	7/0.52	1.56	0.8	1.8	14.5	12.1	0.0112	260
	2.5	7/0.67	2.01	0.8	1.8	16	7.41	0.0093	340
	4	7/0.85	2.55	1	1.8	19	4.61	0.0092	510
	6	7/1.04	3.12	1	1.8	20.5	3.08	0.0078	660
7	0.5	7/0.30	0.9	0.8	1.8	12.5	36	0.0162	170
	0.75	7/0.37	1.11	0.8	1.8	13.5	24.5	0.0142	200
	1	7/0.43	1.29	0.8	1.8	14	18.1	0.0128	230
	1.5	7/0.52	1.56	0.8	1.8	14.5	12.1	0.0112	270
	2.5	7/0.67	2.01	0.8	1.8	16	7.41	0.0093	370
	4	7/0.85	2.55	1	1.8	19	4.61	0.0092	540
	6	7/1.04	3.12	1	1.8	20.5	3.08	0.0078	720
8	0.5	7/0.30	0.9	0.8	1.8	13.5	36	0.0162	190
	0.75	7/0.37	1.11	0.8	1.8	14	24.5	0.0142	220
	1	7/0.43	1.29	0.8	1.8	15	18.1	0.0128	250
	1.5	7/0.52	1.56	0.8	1.8	15.5	12.1	0.0112	310
	2.5	7/0.67	2.01	0.8	1.8	17	7.41	0.0093	410
	4	7/0.85	2.55	1	1.8	20.5	4.61	0.0092	610
	6	7/1.04	3.12	1	1.8	22.5	3.08	0.0078	810
9	0.5	7/0.30	0.9	0.8	1.8	14.5	36	0.0162	210
	0.75	7/0.37	1.11	0.8	1.8	15	24.5	0.0142	250
	1	7/0.43	1.29	0.8	1.8	16	18.1	0.0128	280
	1.5	7/0.52	1.56	0.8	1.8	17	12.1	0.0112	340
	2.5	7/0.67	2.01	0.8	1.8	18.5	7.41	0.0093	460
	4	7/0.85	2.55	1	1.8	22	4.61	0.0092	690
	6	7/1.04	3.12	1	1.8	24	3.08	0.0078	920





Addison Cables to IEC/TIS Standard

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No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
10	0.5	7/0.30	0.9	0.8	1.8	15.5	36	0.0162	230
	0.75	7/0.37	1.11	0.8	1.8	16	24.5	0.0142	270
	1	7/0.43	1.29	0.8	1.8	17	18.1	0.0128	310
	1.5	7/0.52	1.56	0.8	1.8	18	12.1	0.0112	370
	2.5	7/0.67	2.01	0.8	1.8	20	7.41	0.0093	510
	4	7/0.85	2.55	1	1.8	24	4.61	0.0092	760
	6	7/1.04	3.12	1	1.8	26	3.08	0.0078	1000
11	0.5	7/0.30	0.9	0.8	1.8	16	36	0.0162	250
	0.75	7/0.37	1.11	0.8	1.8	16.5	24.5	0.0142	290
	1	7/0.43	1.29	0.8	1.8	17.5	18.1	0.0128	340
	1.5	7/0.52	1.56	0.8	1.8	18.5	12.1	0.0112	410
	2.5	7/0.67	2.01	0.8	1.8	20.5	7.41	0.0093	560
	4	7/0.85	2.55	1	1.8	24.5	4.61	0.0092	840
	6	7/1.04	3.12	1	1.8	27	3.08	0.0078	1120
12	0.5	7/0.30	0.9	0.8	1.8	16	36	0.0162	250
	0.75	7/0.37	1.11	0.8	1.8	16.5	24.5	0.0142	300
	1	7/0.43	1.29	0.8	1.8	17.5	18.1	0.0128	350
	1.5	7/0.52	1.56	0.8	1.8	18.5	12.1	0.0112	430
	2.5	7/0.67	2.01	0.8	1.8	20.5	7.41	0.0093	580
	4	7/0.85	2.55	1	1.8	24.5	4.61	0.0092	880
	6	7/1.04	3.12	1	1.8	27	3.08	0.0078	1170
13	0.5	7/0.30	0.9	0.8	1.8	16.5	36	0.0162	280
	0.75	7/0.37	1.11	0.8	1.8	17.5	24.5	0.0142	330
	1	7/0.43	1.29	0.8	1.8	18.5	18.1	0.0128	380
	1.5	7/0.52	1.56	0.8	1.8	19.5	12.1	0.0112	470
	2.5	7/0.67	2.01	0.8	1.8	21.5	7.41	0.0093	640
	4	7/0.85	2.55	1	1.8	26	4.61	0.0092	970
	6	7/1.04	3.12	1	1.8	28.5	3.08	0.0078	1290

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No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
14	0.5	7/0.30	0.9	0.8	1.8	16.5	36	0.0162	280
	0.75	7/0.37	1.11	0.8	1.8	17.5	24.5	0.0142	340
	1	7/0.43	1.29	0.8	1.8	18.5	18.1	0.0128	390
	1.5	7/0.52	1.56	0.8	1.8	19.5	12.1	0.0112	480
	2.5	7/0.67	2.01	0.8	1.8	21.5	7.41	0.0093	660
	4	7/0.85	2.55	1	1.8	26	4.61	0.0092	1000
	6	7/1.04	3.12	1	1.8	28.5	3.08	0.0078	1340
15	0.5	7/0.30	0.9	0.8	1.8	17.5	36	0.0162	310
	0.75	7/0.37	1.11	0.8	1.8	18.5	24.5	0.0142	370
	1	7/0.43	1.29	0.8	1.8	19	18.1	0.0128	430
	1.5	7/0.52	1.56	0.8	1.8	20.5	12.1	0.0112	530
	2.5	7/0.67	2.01	0.8	1.8	22.5	7.41	0.0093	730
	4	7/0.85	2.55	1	1.8	27	4.61	0.0092	1100
	6	7/1.04	3.12	1	1.8	30	3.08	0.0078	1480
16	0.5	7/0.30	0.9	0.8	1.8	17.5	36	0.0162	320
	0.75	7/0.37	1.11	0.8	1.8	18.5	24.5	0.0142	380
	1	7/0.43	1.29	0.8	1.8	19	18.1	0.0128	440
	1.5	7/0.52	1.56	0.8	1.8	20.5	12.1	0.0112	540
	2.5	7/0.67	2.01	0.8	1.8	22.5	7.41	0.0093	750
	4	7/0.85	2.55	1	1.8	27	4.61	0.0092	1140
	6	7/1.04	3.12	1	1.8	30	3.08	0.0078	1530
17	0.5	7/0.30	0.9	0.8	1.8	18	36	0.0162	340
	0.75	7/0.37	1.11	0.8	1.8	19	24.5	0.0142	410
	1	7/0.43	1.29	0.8	1.8	20	18.1	0.0128	480
	1.5	7/0.52	1.56	0.8	1.8	21.5	12.1	0.0112	590
	2.5	7/0.67	2.01	0.8	1.8	23.5	7.41	0.0093	820
	4	7/0.85	2.55	1	1.8	28.5	4.61	0.0092	1240
	6	7/1.04	3.12	1	1.9	31.5	3.08	0.0078	1660





Addison Cables to IEC/TIS Standard

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No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
18	0.5	7/0.30	0.9	0.8	1.8	18	36	0.0162	350
	0.75	7/0.37	1.11	0.8	1.8	19	24.5	0.0142	420
	1	7/0.43	1.29	0.8	1.8	20	18.1	0.0128	490
	1.5	7/0.52	1.56	0.8	1.8	21.5	12.1	0.0112	610
	2.5	7/0.67	2.01	0.8	1.8	23.5	7.41	0.0093	840
	4	7/0.85	2.55	1	1.8	28.5	4.61	0.0092	1280
	6	7/1.04	3.12	1	1.8	31.5	3.08	0.0078	1720
19	0.5	7/0.30	0.9	0.8	1.8	18	36	0.0162	360
	0.75	7/0.37	1.11	0.8	1.8	19	24.5	0.0142	430
	1	7/0.43	1.29	0.8	1.8	20	18.1	0.0128	500
	1.5	7/0.52	1.56	0.8	1.8	21.5	12.1	0.0112	620
	2.5	7/0.67	2.01	0.8	1.8	23.5	7.41	0.0093	860
	4	7/0.85	2.55	1	1.8	28.5	4.61	0.0092	1310
	6	7/1.04	3.12	1	1.8	31.5	3.08	0.0078	1770
20	0.5	7/0.30	0.9	0.8	1.8	19	36	0.0162	380
	0.75	7/0.37	1.11	0.8	1.8	20	24.5	0.0142	460
	1	7/0.43	1.29	0.8	1.8	21	18.1	0.0128	540
	1.5	7/0.52	1.56	0.8	1.8	22.5	12.1	0.0112	670
	2.5	7/0.67	2.01	0.8	1.8	25	7.41	0.0093	930
	4	7/0.85	2.55	1	1.8	30	4.61	0.0092	1420
	6	7/1.04	3.12	1	1.9	33.5	3.08	0.0078	1920
21	0.5	7/0.30	0.9	0.8	1.8	19	36	0.0162	390
	0.75	7/0.37	1.11	0.8	1.8	20	24.5	0.0142	470
	1	7/0.43	1.29	0.8	1.8	21	18.1	0.0128	550
	1.5	7/0.52	1.56	0.8	1.8	22.5	12.1	0.0112	680
	2.5	7/0.67	2.01	0.8	1.8	25	7.41	0.0093	940
	4	7/0.85	2.55	1	1.8	30	4.61	0.0092	1440
	6	7/1.04	3.12	1	1.9	33.5	3.08	0.0078	1960

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No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
22	0.5	7/0.30	0.9	0.8	1.8	20	36	0.0162	420
	0.75	7/0.37	1.11	0.8	1.8	21	24.5	0.0142	510
	1	7/0.43	1.29	0.8	1.8	22	18.1	0.0128	590
	1.5	7/0.52	1.56	0.8	1.8	23.5	12.1	0.0112	740
	2.5	7/0.67	2.01	0.8	1.8	26	7.41	0.0093	1030
	4	7/0.85	2.55	1	1.9	32	4.61	0.0092	1580
	6	7/1.04	3.12	1	2	35.5	3.08	0.0078	2140
23	0.5	7/0.30	0.9	0.8	1.8	20	36	0.0162	430
	0.75	7/0.37	1.11	0.8	1.8	21	24.5	0.0142	520
	1	7/0.43	1.29	0.8	1.8	22	18.1	0.0128	600
	1.5	7/0.52	1.56	0.8	1.8	23.5	12.1	0.0112	750
	2.5	7/0.67	2.01	0.8	1.8	26	7.41	0.0093	1050
	4	7/0.85	2.55	1	1.9	32	4.61	0.0092	1620
	6	7/1.04	3.12	1	2	35.5	3.08	0.0078	2190
24	0.5	7/0.30	0.9	0.8	1.8	21	36	0.0162	440
	0.75	7/0.37	1.11	0.8	1.8	22	24.5	0.0142	530
	1	7/0.43	1.29	0.8	1.8	23	18.1	0.0128	620
	1.5	7/0.52	1.56	0.8	1.8	25	12.1	0.0112	770
	2.5	7/0.67	2.01	0.8	1.8	27.5	7.41	0.0093	1070
	4	7/0.85	2.55	1	1.9	34	4.61	0.0092	1660
	6	7/1.04	3.12	1	2	37.5	3.08	0.0078	2250
25	0.5	7/0.30	0.9	0.8	1.8	21.5	36	0.0162	460
	0.75	7/0.37	1.11	0.8	1.8	22.5	24.5	0.0142	560
	1	7/0.43	1.29	0.8	1.8	23.5	18.1	0.0128	660
	1.5	7/0.52	1.56	0.8	1.8	25.5	12.1	0.0112	820
	2.5	7/0.67	2.01	0.8	1.8	28	7.41	0.0093	1140
	4	7/0.85	2.55	1	1.9	34.5	4.61	0.0092	1760
	6	7/1.04	3.12	1	2	38.5	3.08	0.0078	2390





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No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
26	0.5	7/0.30	0.9	0.8	1.8	21.5	36	0.0162	470
	0.75	7/0.37	1.11	0.8	1.8	22.5	24.5	0.0142	570
	1	7/0.43	1.29	0.8	1.8	23.5	18.1	0.0128	670
	1.5	7/0.52	1.56	0.8	1.8	25.5	12.1	0.0112	830
	2.5	7/0.67	2.01	0.8	1.8	28	7.41	0.0093	1160
	4	7/0.85	2.55	1	1.9	34.5	4.61	0.0092	1800
	6	7/1.04	3.12	1	2	38.5	3.08	0.0078	2440
27	0.5	7/0.30	0.9	0.8	1.8	21.5	36	0.0162	480
	0.75	7/0.37	1.11	0.8	1.8	22.5	24.5	0.0142	580
	1	7/0.43	1.29	0.8	1.8	23.5	18.1	0.0128	680
	1.5	7/0.52	1.56	0.8	1.8	25.5	12.1	0.0112	840
	2.5	7/0.67	2.01	0.8	1.8	28	7.41	0.0093	1190
	4	7/0.85	2.55	1	1.9	34.5	4.61	0.0092	1830
	6	7/1.04	3.12	1	2	38.5	3.08	0.0078	2500
28	0.5	7/0.30	0.9	0.8	1.8	22	36	0.0162	500
	0.75	7/0.37	1.11	0.8	1.8	23.5	24.5	0.0142	610
	1	7/0.43	1.29	0.8	1.8	24.5	18.1	0.0128	720
	1.5	7/0.52	1.56	0.8	1.8	26.5	12.1	0.0112	900
	2.5	7/0.67	2.01	0.8	1.8	29	7.41	0.0093	1260
	4	7/0.85	2.55	1	2	36	4.61	0.0092	1960
	6	7/1.04	3.12	1	2.1	40	3.08	0.0078	2660
29	0.5	7/0.30	0.9	0.8	1.8	22	36	0.0162	510
	0.75	7/0.37	1.11	0.8	1.8	23.5	24.5	0.0142	620
	1	7/0.43	1.29	0.8	1.8	24.5	18.1	0.0128	730
	1.5	7/0.52	1.56	0.8	1.8	26.5	12.1	0.0112	910
	2.5	7/0.67	2.01	0.8	1.8	29	7.41	0.0093	1280
	4	7/0.85	2.55	1	2	36	4.61	0.0092	2000
	6	7/1.04	3.12	1	2.1	40	3.08	0.0078	2720

Caledonian Cables Manufacture

No. of cores	Conductor			Thickness of insulation	Thickness of Sheath	Overall diameter	Maximum conductor resistance (at 20°C)	Minimum insulation resistance (at 70°C)	Cable weight
	Nominal cross-sectional area	No. & dia. of wires	Diameter						
	mm ²	mm	mm						
30	0.5	7/0.30	0.9	0.8	1.8	22	36	0.0162	520
	0.75	7/0.37	1.11	0.8	1.8	23.5	24.5	0.0142	630
	1	7/0.43	1.29	0.8	1.8	24.5	18.1	0.0128	740
	1.5	7/0.52	1.56	0.8	1.8	26.5	12.1	0.0112	930
	2.5	7/0.67	2.01	0.8	1.8	29	7.41	0.0093	1300
	4	7/0.85	2.55	1	2	36	4.61	0.0092	2030
	6	7/1.04	3.12	1	2.1	40	3.08	0.0078	2770

