

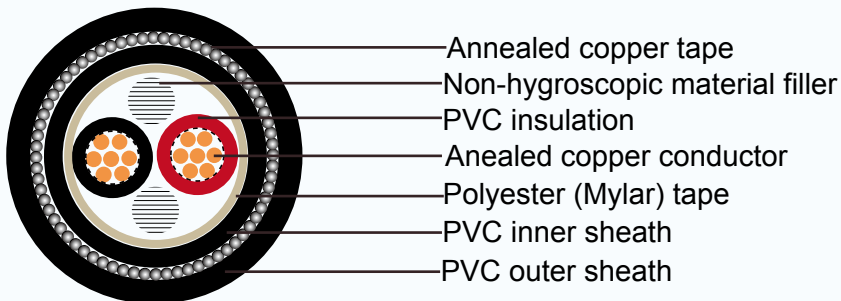
# Caledonian Cables Manufacture

## CVV-SWA

### Application and Description:

For use in duct, tray and for direct burying in ground. The cable is subject to immerse in water all the line.

### Cable Construction:



Conductor: Concentric Stranded annealed copper wires, Sizes: 0.5 mm<sup>2</sup> up to 6 mm<sup>2</sup>

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)

Inner sheath: Polyvinyl chloride (PVC), Black color

Armour: Galvanized steel wire

Separator Tape : Polyester (Mylar) tape

Outer sheath: Polyvinyl chloride (PVC), Black color(A Special FR-PVC 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:

### Cables to IEC 60502-1

No. of cores	Conductor			Thick-ness of insulation	Thick-ness of inner Sheath	Diameter of steel wire armour	Thick-ness of outer 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 <sup>2</sup>	mm	mm								
2	0.5	7/0.30	0.9	0.8	1	0.8	1.8	14.5	36	0.0162	300
	0.75	7/0.37	1.11	0.8	1	0.8	1.8	15	24.5	0.0142	320
	1	7/0.43	1.29	0.8	1	0.8	1.8	15.5	18.1	0.0128	340
	1.5	7/0.52	1.56	0.8	1	0.8	1.8	16	12.1	0.0112	370
	2.5	7/0.67	2.01	0.8	1	0.8	1.8	17	7.41	0.0093	430
	4	7/0.85	2.55	1	1	1.25	1.8	20	4.61	0.0092	670
	6	7/1.04	3.12	1	1	1.25	1.8	21	3.08	0.0078	760
3	0.5	7/0.30	0.9	0.8	1	0.8	1.8	15	36	0.0162	320
	0.75	7/0.37	1.11	0.8	1	0.8	1.8	15.5	24.5	0.0142	350
	1	7/0.43	1.29	0.8	1	0.8	1.8	16	18.1	0.0128	370
	1.5	7/0.52	1.56	0.8	1	0.8	1.8	16.5	12.1	0.0112	410
	2.5	7/0.67	2.01	0.8	1	0.8	1.8	17.5	7.41	0.0093	480
	4	7/0.85	2.55	1	1	1.25	1.8	20.5	4.61	0.0092	750
	6	7/1.04	3.12	1	1	1.25	1.8	22	3.08	0.0078	870
4	0.5	7/0.30	0.9	0.8	1	0.8	1.8	16	36	0.0162	360
	0.75	7/0.37	1.11	0.8	1	0.8	1.8	16.5	24.5	0.0142	390
	1	7/0.43	1.29	0.8	1	0.8	1.8	17	18.1	0.0128	420
	1.5	7/0.52	1.56	0.8	1	0.8	1.8	17.5	12.1	0.0112	460
	2.5	7/0.67	2.01	0.8	1	1.25	1.8	19.5	7.41	0.0093	660
	4	7/0.85	2.55	1	1	1.25	1.8	22	4.61	0.0092	860
	6	7/1.04	3.12	1	1	1.25	1.8	23.5	3.08	0.0078	1010
5	0.5	7/0.30	0.9	0.8	1	0.8	1.8	16.5	36	0.0162	400
	0.75	7/0.37	1.11	0.8	1	0.8	1.8	17.5	24.5	0.0142	430
	1	7/0.43	1.29	0.8	1	0.8	1.8	18	18.1	0.0128	470
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	19.5	12.1	0.0112	640
	2.5	7/0.67	2.01	0.8	1	1.25	1.8	20.5	7.41	0.0093	760
	4	7/0.85	2.55	1	1	1.25	1.8	23.5	4.61	0.0092	990
	6	7/1.04	3.12	1	1	1.25	1.8	25	3.08	0.0078	1170

# Caledonian Cables Manufacture

No. of cores	Conductor			Thick-ness of insulation	Thick-ness of inner Sheath	Diameter of steel wire armour	Thick-ness of outer 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 <sup>2</sup>	mm	mm								
6	0.5	7/0.30	0.9	0.8	1	0.8	1.8	17.5	36	0.0162	420
	0.75	7/0.37	1.11	0.8	1	0.8	1.8	18	24.5	0.0142	470
	1	7/0.43	1.29	0.8	1	1.25	1.8	19.5	18.1	0.0128	620
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	20.5	12.1	0.0112	690
	2.5	7/0.67	2.01	0.8	1	1.25	1.8	22	7.41	0.0093	820
	4	7/0.85	2.55	1	1	1.25	1.8	25	4.61	0.0092	1070
	6	7/1.04	3.12	1	1	1.6	1.8	27	3.08	0.0078	1420
7	0.5	7/0.30	0.9	0.8	1	0.8	1.8	17.5	36	0.0162	430
	0.75	7/0.37	1.11	0.8	1	0.8	1.8	18	24.5	0.0142	480
	1	7/0.43	1.29	0.8	1	1.25	1.8	19.5	18.1	0.0128	630
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	20.5	12.1	0.0112	700
	2.5	7/0.67	2.01	0.8	1	1.25	1.8	22	7.41	0.0093	840
	4	7/0.85	2.55	1	1	1.25	1.8	25	4.61	0.0092	1100
	6	7/1.04	3.12	1	1	1.6	1.8	27	3.08	0.0078	1470
8	0.5	7/0.30	0.9	0.8	1	1.25	1.8	19.5	36	0.0162	580
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	20	24.5	0.0142	640
	1	7/0.43	1.29	0.8	1	1.25	1.8	20.5	18.1	0.0128	690
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	21.5	12.1	0.0112	770
	2.5	7/0.67	2.01	0.8	1	1.25	1.8	23	7.41	0.0093	930
	4	7/0.85	2.55	1	1	1.6	1.8	27	4.61	0.0092	1370
	6	7/1.04	3.12	1	1	1.6	1.8	29	3.08	0.0078	1640
9	0.5	7/0.30	0.9	0.8	1	1.25	1.8	20	36	0.0162	640
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	21	24.5	0.0142	700
	1	7/0.43	1.29	0.8	1	1.25	1.8	21.5	18.1	0.0128	750
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	22.5	12.1	0.0112	840
	2.5	7/0.67	2.01	0.8	1	1.25	1.8	24	7.41	0.0093	1010
	4	7/0.85	2.55	1	1	1.6	1.8	28.5	4.61	0.0092	1500
	6	7/1.04	3.12	1	1	1.6	1.8	30.5	3.08	0.0078	1800
10	0.5	7/0.30	0.9	0.8	1	1.25	1.8	21	36	0.0162	680
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	22	24.5	0.0142	740
	1	7/0.43	1.29	0.8	1	1.25	1.8	23	18.1	0.0128	810
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	24	12.1	0.0112	910
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	26.5	7.41	0.0093	1240
	4	7/0.85	2.55	1	1	1.6	1.8	30.5	4.61	0.0092	1620
	6	7/1.04	3.12	1	1	1.6	1.9	33	3.08	0.0078	1980





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No. of cores	Conductor			Thick-ness of insulation	Thick-ness of inner Sheath	Diameter of steel wire armour	Thick-ness of outer 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 <sup>2</sup>	mm	mm								
11	0.5	7/0.30	0.9	0.8	1	1.25	1.8	21.5	36	0.0162	710
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	22.5	24.5	0.0142	790
	1	7/0.43	1.29	0.8	1	1.25	1.8	23.5	18.1	0.0128	850
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	24.5	12.1	0.0112	960
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	27	7.41	0.0093	1310
	4	7/0.85	2.55	1	1	1.6	1.8	31	4.61	0.0092	1750
	6	7/1.04	3.12	1	1	1.6	1.9	33.5	3.08	0.0078	2130
12	0.5	7/0.30	0.9	0.8	1	1.25	1.8	21.5	36	0.0162	720
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	22.5	24.5	0.0142	800
	1	7/0.43	1.29	0.8	1	1.25	1.8	23.5	18.1	0.0128	860
	1.5	7/0.52	1.56	0.8	1	1.25	1.8	24.5	12.1	0.0112	980
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	27	7.41	0.0093	1330
	4	7/0.85	2.55	1	1	1.6	1.8	31	4.61	0.0092	1780
	6	7/1.04	3.12	1	1	1.6	1.9	33.5	3.08	0.0078	2190
13	0.5	7/0.30	0.9	0.8	1	1.25	1.8	22.5	36	0.0162	760
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	23.5	24.5	0.0142	840
	1	7/0.43	1.29	0.8	1	1.25	1.8	24	18.1	0.0128	920
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	26	12.1	0.0112	1190
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	28	7.41	0.0093	1430
	4	7/0.85	2.55	1	1	1.6	1.8	32.5	4.61	0.0092	1910
	6	7/1.04	3.12	1	1	1.6	1.9	35	3.08	0.0078	2350
14	0.5	7/0.30	0.9	0.8	1	1.25	1.8	22.5	36	0.0162	770
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	23.5	24.5	0.0142	850
	1	7/0.43	1.29	0.8	1	1.25	1.8	24	18.1	0.0128	930
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	26	12.1	0.0112	1200
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	28	7.41	0.0093	1450
	4	7/0.85	2.55	1	1	1.6	1.8	32.5	4.61	0.0092	1950
	6	7/1.04	3.12	1	1	1.6	1.9	35	3.08	0.0078	2400
15	0.5	7/0.30	0.9	0.8	1	1.25	1.8	23	36	0.0162	820
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	24	24.5	0.0142	920
	1	7/0.43	1.29	0.8	1	1.25	1.8	25	18.1	0.0128	1000
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	27	12.1	0.0112	1280
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	29	7.41	0.0093	1560
	4	7/0.85	2.55	1	1	1.6	1.9	34	4.61	0.0092	2120
	6	7/1.04	3.12	1	1	1.6	2	37	3.08	0.0078	2600

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No. of cores	Conductor			Thick-ness of insulation	Thick-ness of inner Sheath	Diameter of steel wire armour	Thick-ness of outer 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 <sup>2</sup>	mm	mm								
16	0.5	7/0.30	0.9	0.8	1	1.25	1.8	23	36	0.0162	830
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	24	24.5	0.0142	930
	1	7/0.43	1.29	0.8	1	1.25	1.8	25	18.1	0.0128	1010
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	27	12.1	0.0112	1300
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	29	7.41	0.0093	1580
	4	7/0.85	2.55	1	1	1.6	1.9	34	4.61	0.0092	2160
	6	7/1.04	3.12	1	1	1.6	2	37	3.08	0.0078	2660
17	0.5	7/0.30	0.9	0.8	1	1.25	1.8	24	36	0.0162	880
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	25	24.5	0.0142	980
	1	7/0.43	1.29	0.8	1	1.6	1.8	26.5	18.1	0.0128	1220
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	28	12.1	0.0112	1390
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	30	7.41	0.0093	1690
	4	7/0.85	2.55	1	1	1.6	1.9	35.5	4.61	0.0092	2320
	6	7/1.04	3.12	1	1	2	2	39.5	3.08	0.0078	3120
18	0.5	7/0.30	0.9	0.8	1	1.25	1.8	24	36	0.0162	890
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	25	24.5	0.0142	990
	1	7/0.43	1.29	0.8	1	1.6	1.8	26.5	18.1	0.0128	1230
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	28	12.1	0.0112	1400
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	30	7.41	0.0093	1700
	4	7/0.85	2.55	1	1	1.6	1.9	35.5	4.61	0.0092	2350
	6	7/1.04	3.12	1	1	2	2	39.5	3.08	0.0078	3170
19	0.5	7/0.30	0.9	0.8	1	1.25	1.8	24	36	0.0162	900
	0.75	7/0.37	1.11	0.8	1	1.25	1.8	25	24.5	0.0142	1000
	1	7/0.43	1.29	0.8	1	1.6	1.8	26.5	18.1	0.0128	1240
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	28	12.1	0.0112	1410
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	30	7.41	0.0093	1730
	4	7/0.85	2.55	1	1	1.6	1.9	35.5	4.61	0.0092	2390
	6	7/1.04	3.12	1	1	2	2	39.5	3.08	0.0078	3220
20	0.5	7/0.30	0.9	0.8	1	1.25	1.8	25	36	0.0162	940
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	26.5	24.5	0.0142	1200
	1	7/0.43	1.29	0.8	1	1.6	1.8	27.5	18.1	0.0128	1310
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	29	12.1	0.0112	1500
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	31.5	7.41	0.0093	1860
	4	7/0.85	2.55	1	1	1.6	2	37	4.61	0.0092	2570
	6	7/1.04	3.12	1	1.2	2	2.1	41.5	3.08	0.0078	3500





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No. of cores	Conductor			Thick-ness of insulation	Thick-ness of inner Sheath	Diameter of steel wire armour	Thick-ness of outer 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 <sup>2</sup>	mm	mm								
21	0.5	7/0.30	0.9	0.8	1	1.25	1.8	25	36	0.0162	950
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	26.5	24.5	0.0142	1210
	1	7/0.43	1.29	0.8	1	1.6	1.8	27.5	18.1	0.0128	1320
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	29	12.1	0.0112	1510
	2.5	7/0.67	2.01	0.8	1	1.6	1.8	31.5	7.41	0.0093	1870
	4	7/0.85	2.55	1	1	1.6	2	37	4.61	0.0092	2590
	6	7/1.04	3.12	1	1.2	2	2.1	41.5	3.08	0.0078	3540
22	0.5	7/0.30	0.9	0.8	1	1.6	1.8	26.5	36	0.0162	1150
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	27.5	24.5	0.0142	1280
	1	7/0.43	1.29	0.8	1	1.6	1.8	28.5	18.1	0.0128	1400
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	30	12.1	0.0112	1600
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	33	7.41	0.0093	2000
	4	7/0.85	2.55	1	1	2	2.1	39.5	4.61	0.0092	3040
	6	7/1.04	3.12	1	1.2	2	2.2	43.5	3.08	0.0078	3810
23	0.5	7/0.30	0.9	0.8	1	1.6	1.8	26.5	36	0.0162	1160
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	27.5	24.5	0.0142	1290
	1	7/0.43	1.29	0.8	1	1.6	1.8	28.5	18.1	0.0128	1420
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	30	12.1	0.0112	1620
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	33	7.41	0.0093	2030
	4	7/0.85	2.55	1	1	2	2.1	39.5	4.61	0.0092	3080
	6	7/1.04	3.12	1	1.2	2	2.2	43.5	3.08	0.0078	3870
24	0.5	7/0.30	0.9	0.8	1	1.6	1.8	27.5	36	0.0162	1210
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	28.5	24.5	0.0142	1340
	1	7/0.43	1.29	0.8	1	1.6	1.8	29.5	18.1	0.0128	1470
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	31.5	12.1	0.0112	1680
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	34.5	7.41	0.0093	2110
	4	7/0.85	2.55	1	1.2	2	2.1	42	4.61	0.0092	3260
	6	7/1.04	3.12	1	1.2	2	2.2	45.5	3.08	0.0078	4010
25	0.5	7/0.30	0.9	0.8	1	1.6	1.8	28	36	0.0162	1250
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	29	24.5	0.0142	1390
	1	7/0.43	1.29	0.8	1	1.6	1.8	30	18.1	0.0128	1530
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	32	12.1	0.0112	1760
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	35	7.41	0.0093	2200
	4	7/0.85	2.55	1	1.2	2	2.1	43	4.61	0.0092	3400
	6	7/1.04	3.12	1	1.2	2	2.2	46.5	3.08	0.0078	4220

# Caledonian Cables Manufacture

No. of cores	Conductor			Thick-ness of insulation	Thick-ness of inner Sheath	Diameter of steel wire armour	Thick-ness of outer 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 <sup>2</sup>	mm	mm								
26	0.5	7/0.30	0.9	0.8	1	1.6	1.8	28	36	0.0162	1260
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	29	24.5	0.0142	1400
	1	7/0.43	1.29	0.8	1	1.6	1.8	30	18.1	0.0128	1540
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	32	12.1	0.0112	1780
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	35	7.41	0.0093	2220
	4	7/0.85	2.55	1	1.2	2	2.1	43	4.61	0.0092	3440
	6	7/1.04	3.12	1	1.2	2	2.2	46.5	3.08	0.0078	4270
27	0.5	7/0.30	0.9	0.8	1	1.6	1.8	28	36	0.0162	1270
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	29	24.5	0.0142	1410
	1	7/0.43	1.29	0.8	1	1.6	1.8	30	18.1	0.0128	1550
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	32	12.1	0.0112	1790
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	35	7.41	0.0093	2240
	4	7/0.85	2.55	1	1.2	2	2.1	43	4.61	0.0092	3470
	6	7/1.04	3.12	1	1.2	2	2.2	46.5	3.08	0.0078	4320
28	0.5	7/0.30	0.9	0.8	1	1.6	1.8	28.5	36	0.0162	1310
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	30	24.5	0.0142	1480
	1	7/0.43	1.29	0.8	1	1.6	1.8	31	18.1	0.0128	1630
	1.5	7/0.52	1.56	0.8	1	1.6	1.8	33	12.1	0.0112	1880
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	36	7.41	0.0093	2350
	4	7/0.85	2.55	1	1.2	2	2.2	44.5	4.61	0.0092	3670
	6	7/1.04	3.12	1	1.2	2	2.3	48	3.08	0.0078	4550
29	0.5	7/0.30	0.9	0.8	1	1.6	1.8	28.5	36	0.0162	1320
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	30	24.5	0.0142	1490
	1	7/0.43	1.29	0.8	1	1.6	1.8	31	18.1	0.0128	1640
	1.5	7/0.52	1.56	0.8	1	1.6	1.9	33	12.1	0.0112	1900
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	36	7.41	0.0093	2370
	4	7/0.85	2.55	1	1.2	2	2.2	44.5	4.61	0.0092	3700
	6	7/1.04	3.12	1	1.2	2	2.3	48	3.08	0.0078	4600
30	0.5	7/0.30	0.9	0.8	1	1.6	1.8	28.5	36	0.0162	1330
	0.75	7/0.37	1.11	0.8	1	1.6	1.8	30	24.5	0.0142	1500
	1	7/0.43	1.29	0.8	1	1.6	1.8	31	18.1	0.0128	1650
	1.5	7/0.52	1.56	0.8	1	1.6	1.9	33	12.1	0.0112	1910
	2.5	7/0.67	2.01	0.8	1	1.6	1.9	36	7.41	0.0093	2400
	4	7/0.85	2.55	1	1.2	2	2.2	44.5	4.61	0.0092	3740
	6	7/1.04	3.12	1	1.2	2	2.3	48	3.08	0.0078	4660

