CONSTRUCTION – PVC CABLES 0.6 / 1 kV

CONTROL 2.5MM^2 2-50C+E

PVC INSULATED LAID UP AND PVC SHEATHED CONTROL CABLE TO AS/NZS 5000.1.

For control circuits unenclosed, enclosed in conduit, buried direct or in underground ducts for commercial, industrial, mining and electricity authority systems where not subject to mechanical damage.

Cable Characteristics

Semi-rigid | OD≤25 4D OD>25 6D | 1 | Water Drops | Good | +75 °C -15 °C | C3 | Good

Cable Design

CONDUCTOR:

Plain annealed copper conductor to AS/NZS 1125
Maximum continuous operating temperature: 75 °C

Can also be operated at temperatures up to 90 °C when not exposed to mechanical deformation (see AS/NZS 3008.1)

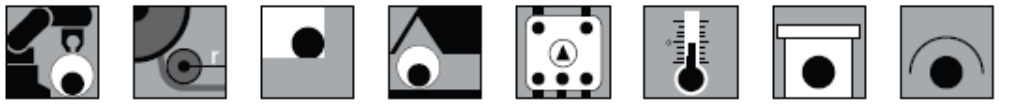
INSULATION:

V-90 PVC
Colours: White with Black numbering, Green/Yellow

SHEATH:

5V-90 PVC
Colours: Orange, Black

Installation Conditions



INDUSTRIAL EQUIPMENT | OD≤25 6D OD>25 9D | IN FREE AIR | IN CONDUIT | MACHINES | 0 °C | IN TRENCH | IN GROUND WITH PROTECTION

IN DUCT

CONSTRUCTION – PVC CABLES 0.6 / 1 kV – CONTROL 2.5MM² 2-50C+E

Physical & Electrical Characteristics

Product code	Cable						Min. installed bending radius mm
	Conductor nominal C.S.A. mm²	Number of cores	Nominal insulation thickness mm	Overall diameter		Approx. mass kg/100 m	
				Minimum mm	Maximum mm		
2.52CECON	2.5	2	0.8	11.3	11.7	21	50
2.53CECON	2.5	3	0.8	12.2	12.6	25	50
2.54CECON	2.5	4	0.8	13.2	13.7	30	60
2.55CECON	2.5	5	0.8	14.7	15.2	32	60
2.56CECON	2.5	6	0.8	14.7	15.2	35	60
2.57CECON	2.5	7	0.8	16.9	17.3	42	70
2.58CECON	2.5	8	0.8	18.0	18.5	47	80
2.510CECON	2.5	10	0.8	18.3	18.7	52	80
2.512CECON	2.5	12	0.8	18.9	19.4	59	80
2.515CECON	2.5	15	0.8	20.8	21.3	71	90
2.520CECON	2.5	20	0.8	24.1	24.6	92	100
2.525CECON	2.5	25	0.8	25.5	26.1	110	160
2.530CECON	2.5	30	0.8	28.1	28.6	127	170
2.540CECON	2.5	40	0.8	31.6	32.1	165	200
2.550CECON	2.5	50	0.8	34.6	35.3	203	220

Number of cores	Current rating (a)			Electrical characteristics	
	Unenclosed spaced A	Buried direct A	Underground in duct A	Maximum D.C. resistance at 20°C Ω/km	Reactance per core Ω/km
2	27	40	31	7.41	0.102
3	23	34	26	7.41	0.102
4	23	34	26	7.41	0.102
5	20	32	20	7.41	0.102
6	18	29	19	7.41	0.102
7	18	28	18	7.41	0.102
8	17	27	18	7.41	0.102
10	16	25	16	7.41	0.102
12	15	24	15	7.41	0.102
15	14	22	14	7.41	0.102
20	12	20	13	7.41	0.102
25	11	18	12	7.41	0.102
30	11	18	11	7.41	0.102
40	10	16	10	7.41	0.102
50	10	16	10	7.41	0.102

(a) Based on 75 °C conductor temperature, 40 °C ambient air temperature and where applicable, burial depth of 0.5 m, soil temperature of 25 °C and soil thermal resistivity of 1.2 °C.m/W. Refer to AS/NZS 3008.1 for other installation conditions.