

CONSTRUCTION - PVC CABLES 0.6 / 1 kV

CONTROL 1.5MM² 2-50C+E SWA

PVC INSULATED LAID UP PVC BEDDED GSW ARMoured 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 mechanical damage may occur. The 90°C cable is used where improved aging properties to those of 75°C PVC insulated cable are required because of higher ambient temperatures.



Cable Characteristics



Semi-rigid



12D



2



Water
Splashes



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

ARMOUR:

Steel wire armour

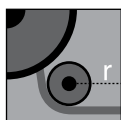
SHEATH:

5V-90 PVC
 Colours: Orange, Black

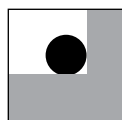
Installation Conditions



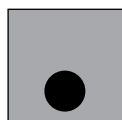
INDUSTRIAL
EQUIPMENT



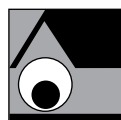
18D



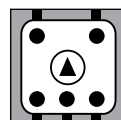
IN FREE AIR



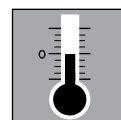
IN GROUND



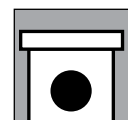
IN
CONDUIT



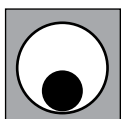
MACHINES



0°C



IN TRENCH



IN DUCT

CONSTRUCTION - PVC CABLES 0.6 /1 kV - CONTROL 1.5MM² 2-50C+E SWA**Physical & Electrical Characteristics**

Product code	Cable									Min. installed bending radius mm
	Conductor nominal C.S.A. mm ²	Number of cores	Nominal insulation thickness mm	Diameter under armour		Armour wire diameter mm	Overall diameter		Approx. mass kg/100 m	
				Minimum mm	Maximum mm		Minimum mm	Maximum mm		
1.52CECONA	1.5	2	0.8	8.4	9.1	1.25	14.5	15.6	48	190
1.53CECONA	1.5	3	0.8	9.3	9.9	1.25	15.4	16.4	54	200
1.54CECONA	1.5	4	0.8	10.2	10.9	1.25	16.3	17.3	61	210
1.55CECONA	1.5	5	0.8	11.5	12.3	1.25	17.7	18.7	66	230
1.56CECONA	1.5	6	0.8	11.5	12.3	1.25	17.7	18.7	68	230
1.57CECONA	1.5	7	0.8	13.5	14.2	1.25	19.6	20.6	78	250
1.58CECONA	1.5	8	0.8	14.4	15.2	1.25	20.5	21.6	85	260
1.510CECONA	1.5	10	0.8	14.7	15.4	1.25	20.8	21.9	89	260
1.512CECONA	1.5	12	0.8	15.2	15.8	1.25	21.3	22.3	95	270
1.515CECONA	1.5	15	0.8	16.8	17.6	1.25	22.9	24.1	109	290
1.520CECONA	1.5	20	0.8	19.7	20.5	1.60	26.5	27.6	146	340
1.525CECONA	1.5	25	0.8	20.9	21.7	1.60	27.7	28.8	160	350
1.530CECONA	1.5	30	0.8	23.1	23.9	1.60	29.8	31.1	181	370
1.540CECONA	1.5	40	0.8	25.9	26.7	1.60	32.9	34.1	217	410
1.550CECONA	1.5	50	0.8	28.8	29.3	2.00	37.0	37.9	277	460

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	19	28	22	13.6	0.111
3	16	24	19	13.6	0.111
4	16	24	19	13.6	0.111
5	14	24	14	13.6	0.111
6	13	22	13	13.6	0.111
7	13	22	13	13.6	0.111
8	12	21	12	13.6	0.111
10	11	19	11	13.6	0.111
12	11	18	11	13.6	0.111
15	10	17	10	13.6	0.111
20	9	15	9	13.6	0.111
25	8	14	8	13.6	0.111
30	8	13	8	13.6	0.111
40	7	12	7	13.6	0.111
50	7	12	7	13.6	0.111

(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.

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