

CONSTRUCTION - PVC CABLES 0.6 /1 kV

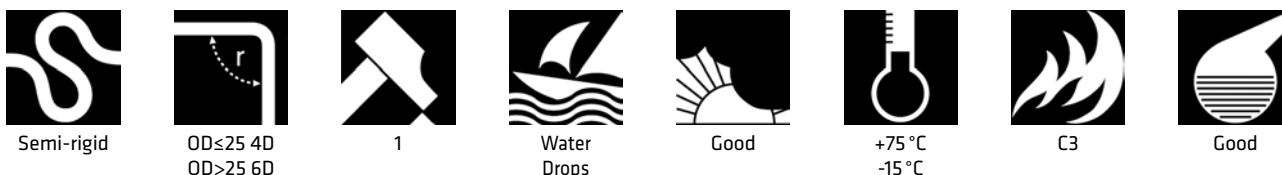
CONTROL 2.5MM² 2-50C+E

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



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)

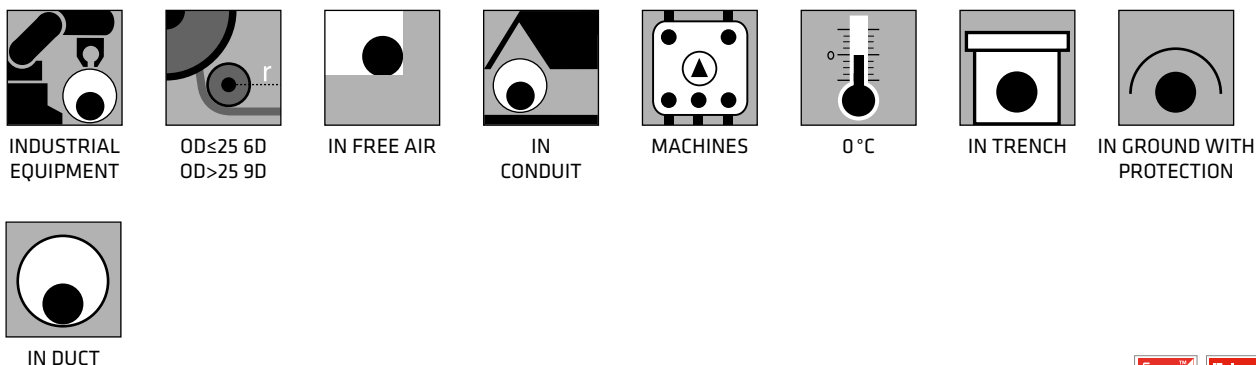
INSULATION:

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

SHEATH:

5V-90 PVC
Colours: Orange, Black

Installation Conditions



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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	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.

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CABLE HANDLING

Cable Usage Characteristics



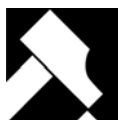
AMBIENT TEMPERATURE

Maximum operating temperature
Minimum operating temperature




MINIMUM BENDING RADIUS

Minimum bending radius of installed cables
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MECHANICAL IMPACT RESISTANCE

1	Light Impact
2	Moderate Impact
3	Heavy Impact
4	Very Heavy Impact




CHEMICAL RESISTANCE

Excellent	Permanent
Very Good	Frequent
Good	Occasional
Acceptable	Accidental
Poor	None




RESISTANCE TO SOLAR RADIATION AND WEATHER

Excellent	Permanent
Very Good	Frequent
Good	Occasional
Acceptable	Accidental
Poor	None




RESISTANCE TO WATER

Negligible	No humidity
Water Drops	Occasional condensation
Spray	Water run off
Splashes	Exposed to water splashes
Heavy Sea	Exposed to waves
Immersion	Temporarily covered by water
Submersion	Permanently covered by water




BEHAVIOUR IN FLAME AND FIRE

Reaction To Fire	Resistant To Fire
C 1 Fire retardant	Level 1 Ultimate fire survival
C 2 Flame retardant	Level 2 Two hours fire survival
C 3 No fire performance	Level 3 Restrained spread & self extinguishing




FLEXIBILITY

Rigid	Flexible
Semi-rigid	Very flexible



HALOGEN FREE

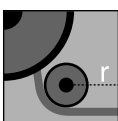
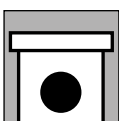
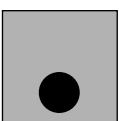
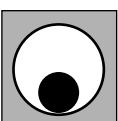

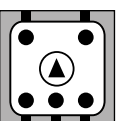

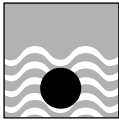


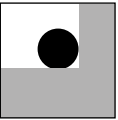
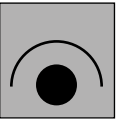
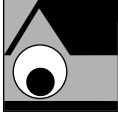

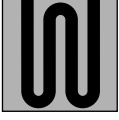



AS/NZS 4507



LOW SMOKE EMISSION

AS/NZS 4507

Laying Conditions

 MINIMUM BENDING RADIUS DURING INSTALLATION	 IN TRENCH	 IN GROUND	 IN DUCT	 DOMESTIC APPLIANCES	 MACHINES
 MOBILE EQUIPMENT	 SUBMERGED	 OVERHEAD AERIAL	 MIN. INSTALLATION TEMPERATURE	 IN FREE AIR	 IN GROUND WITH PROTECTION
 IN CONDUIT	 OUTDOOR APPLIANCES	 FESTOON	 INTERNAL WIRING	 INDUSTRIAL EQUIPMENT	 EXTERNAL BUILDING

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