

CONSTRUCTION - PVC CABLES 0.6/1 kV



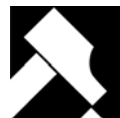





2C+E PVC CIRCULAR

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

For mains, submains and subcircuits unenclosed, in conduit, buried direct or in underground ducts for buildings and industrial plants 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)


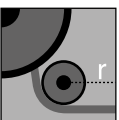
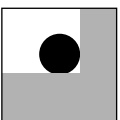
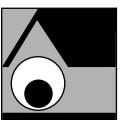
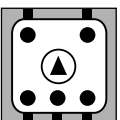
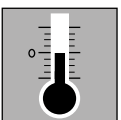
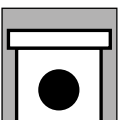
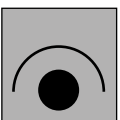
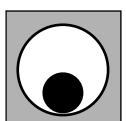

INSULATION:

V-90 PVC
 Colours: Red, Black, Green/Yellow

SHEATH:

5V-90 PVC
 Colours: Orange

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	EXTERNAL BUILDING						

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Physical & Electrical Characteristics

Product code	Conductor			Cable				Min. installed bending radius mm
	Nominal C.S.A. mm ²	Number and diameter of wires No/mm	Nominal diameter mm	Nominal insulation thickness mm	Overall diameter mm		Approx. mass kg/100 m	
					Minimum	Maximum		
1.52CEOC	1.5	7/0.50	1.5	0.8	10	10.4	15	45
2.52CEOC	2.5	7/0.67	2.0	0.8	11.3	11.7	21	50
42CEOC	4	7/0.85	2.6	1.0	12.7	13.2	27	55
62CEOC	6	7/1.04	3.1	1.0	13.7	14.3	34	60
102CEOC	10	7/1.35	4.1	1.0	16.1	16.8	45	70
162CEOC	16	7/1.70	5.1	1.0	18.2	18.9	62	75
252CEOC	25	19/1.35	6.8	1.2	21.3	22.0	84	90
352CEOC	35	19/1.53	7.7	1.2	23.5	24.3	110	100
502CEOC	50	19/1.78	8.9	1.4	26.8	27.9	149	170
702CEOC	70	19/2.14	10.7	1.4	30.5	31.4	203	190

Conductor nominal area mm ²	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
1.5	19	28	22	13.6	0.111
2.5	27	40	31	7.41	0.102
4	37	52	40	4.61	0.102
6	46	65	51	3.08	0.0967
10	64	87	68	1.83	0.0906
16	85	115	88	1.15	0.0861
25	115	145	115	0.727	0.0853
35	140	180	140	0.524	0.0826
50	170	210	165	0.387	0.0797
70	215	260	205	0.268	0.0770

(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



MECHANICAL IMPACT RESISTANCE

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



RESISTANCE TO SOLAR RADIATION AND WEATHER

Excellent	Permanent
Very Good	Frequent
Good	Occasional
Acceptable	Accidental
Poor	None



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



HALOGEN FREE

AS/NZS 4507



MINIMUM BENDING RADIUS

Minimum bending radius of installed cables



CHEMICAL RESISTANCE

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



FLEXIBILITY

Rigid	Flexible
Semi-rigid	Very flexible



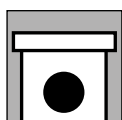
LOW SMOKE EMISSION

AS/NZS 4507

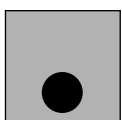
Laying Conditions



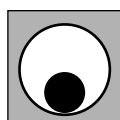
MINIMUM BENDING RADIUS DURING INSTALLATION



IN TRENCH



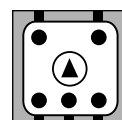
IN GROUND



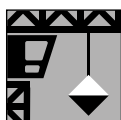
IN DUCT



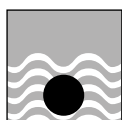
DOMESTIC APPLIANCES



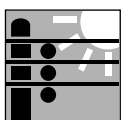
MACHINES



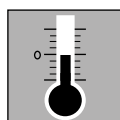
MOBILE EQUIPMENT



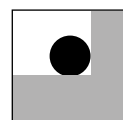
SUBMERGED



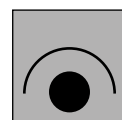
OVERHEAD AERIAL



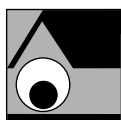
MIN. INSTALLATION TEMPERATURE



IN FREE AIR



IN GROUND WITH PROTECTION



IN CONDUIT



OUTDOOR APPLIANCES



FESTOON



INTERNAL WIRING



INDUSTRIAL EQUIPMENT



EXTERNAL BUILDING

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