A brand of the Prysmian Group

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:

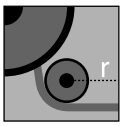
V-90 PVC
Colours: Red, Black, Green/Yellow

SHEATH:

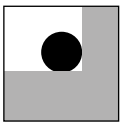
5V-90 PVC
Colours: Orange

Installation Conditions


INDUSTRIAL EQUIPMENT



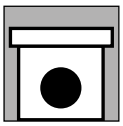
OD≤25 6D
OD>25 9D


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.

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

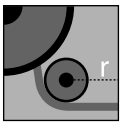
CHEMICAL RESISTANCE	
Excellent	Permanent
Very Good	Frequent
Good	Occasional
Acceptable	Accidental
Poor	None

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

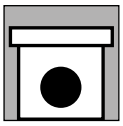
FLEXIBILITY	
Rigid	Flexible
Semi-rigid	Very flexible

LOW SMOKE EMISSION
AS/NZS 4507

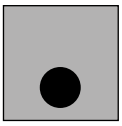
Laying Conditions



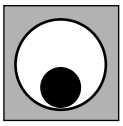
MINIMUM BENDING RADIUS DURING INSTALLATION



IN TRENCH

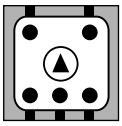


IN GROUND



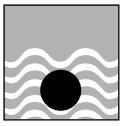
IN DUCT

DOMESTIC APPLIANCES



MACHINES

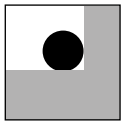
MOBILE EQUIPMENT



SUBMERGED

OVERHEAD AERIAL

MIN. INSTALLATION TEMPERATURE



IN FREE AIR

IN GROUND WITH PROTECTION

IN CONDUIT

OUTDOOR APPLIANCES

FESTOON

INTERNAL WIRING

INDUSTRIAL EQUIPMENT

EXTERNAL BUILDING