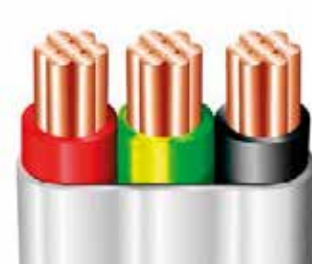


FLAT POWER CABLES 450/750 V
FLAT PVC 2C+E

Cable description

PVC insulated laid flat and PVC sheathed cable to AS/NZS 5000.2.

Application

For general wiring, unenclosed, enclosed in conduit, for domestic, commercial and industrial installations where not subject to mechanical damage.

Approvals

AS/NZS 5000.2

Behaviour in flame and fire

Flame retardant

Temperature range

Normal operating temperature: +90 °C

Minimum operating temperature: 0 °C

Flexibility

Semi-rigid

Resistance to

Chemical exposure: Occasional

Mechanical impact: Light

Water exposure: Occasional condensation

Solar radiation and

weather exposure: Occasional

Cable design

Conductor:

Plain annealed copper conductor to AS/NZS 1125

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:

3V-90 PVC

Colour: White

Installation conditions

In free air

In conduit

In ground with protection

In duct

External building with protection

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Physical & electrical characteristics

2C+E FLAT PVC

Product code	Conductor			Nominal insulation thickness mm	Cable				Approx. mass kg/100 m	Min. installed bending radius (a) mm
	Nominal C.S.A. mm ²	Number and diameter of wires No/mm	Nominal diameter mm		Overall diameter mm					
					Minimum		Maximum			
Major axis	Minor axis	Major axis	Minor axis							
1.0STE	1.0*	1/1.13	1.13	0.6	9.1	4.5	9.3	4.6	8	20
1.5TE	1.5	7/0.50	1.5	0.6	9.8	4.5	10.1	4.6	10	20
2.5STE	2.5*	1/1.78	1.78	0.7	11.7	5.4	11.9	5.5	14	20
2.5TE	2.5	7/0.67	2.0	0.7	12.1	5.4	12.4	5.5	15	20
4TE	4	7/0.85	2.6	0.8	13.8	6.3	14.1	6.5	19	30
6TE	6	7/1.04	3.1	0.8	14.9	6.9	15.3	7.1	24	30
10TE	10	7/1.35	4.1	1.0	18.9	8.4	19.6	8.8	38	35
16TE	16	7/1.70	5.1	1.0	21.8	9.7	22.5	10.0	54	40

(a) Bent in the direction of the minor axis
 * Single wire conductor

Conductor nominal area mm ²	Current rating (b)			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
1.0*	16	17	17	18.1	0.119
1.5	20	21	21	13.6	0.111
2.5	26	30	30	7.41	0.102
4	35	39	39	4.61	0.102
6	45	50	50	3.08	0.0967
10	63	66	66	1.83	0.0906
16	83	114	86	1.15	0.0861

(b) 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.
 * Single wire conductor

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