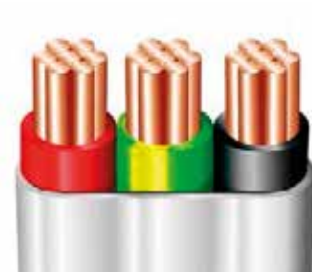


## FLAT POWER CABLES 450/750 V

### 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

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.



**Physical & electrical characteristics**

**2C+E FLAT PVC**

Product code	Conductor			Cable						Min. installed bending radius (a) mm
	Nominal C.S.A. mm <sup>2</sup>	Number and diameter of wires No/mm	Nominal diameter mm	Nominal insulation thickness mm	Overall diameter mm				Approx. mass kg/100 m	
					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 <sup>2</sup>	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

All sizes and values without tolerances are reference values. Specifications are for product as supplied by Prysmian Group; any modification or alteration afterwards of product may give different result. The information contained within this document must not be copied, reprinted or reproduced in any form, either wholly or in part, without the written consent of Prysmian Group. The information is believed to be correct at the time of issue. Prysmian Group reserves the right to amend this specification without prior notice. This specification is not contractually valid unless specifically authorised by Prysmian Group.

