

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

Cable description

Twin core and Earth Flat Power cables 450/750V. 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

Markings:

A red line that points out the active core.

Sizes & pack lengths available:

1.5 mm² & 2.5 mm² in 100 m and 500 m plastic reels.

Installation conditions

In free air
In conduit
In ground with protection
In duct
External building with protection

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Physical & electrical characteristics

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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							
1.5TEAEWH	1.5	7/0.50	1.5	0.6	9.8	4.5	10.1	4.6	10	20
2.5TEAEWH	2.5	7/0.67	2.0	0.7	12.1	5.4	12.4	5.5	15	20

(a) Bent in the direction of the minor axis.

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
1.5	20	21	21	13.6	0.111
2.5	26	30	30	7.41	0.102

(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.

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