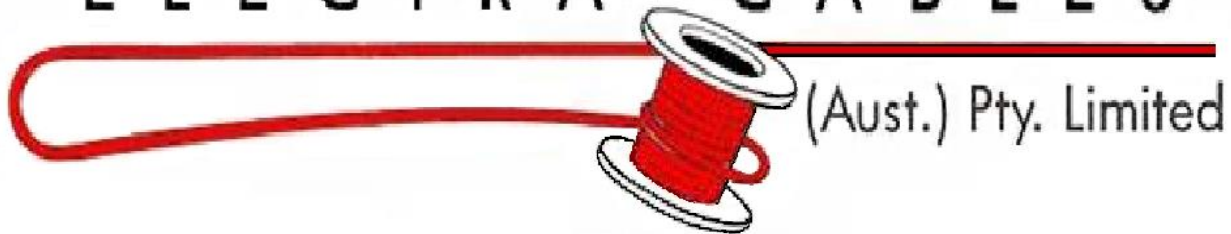


ELECTRA CABLES



(Aust.) Pty. Limited

Solar Cable – Flexible UV resistant 120°C Double Insulated



0.6/1kV AC Tinned copper conductor, UV resistant flexible Solar Cable.

CAUTION
DC CABLE – DO NOT DISCONNECT UNDER LOAD

Description: Flexible Tinned copper conductor with single or twin core, double insulated black UV resistant Electron beam cross linked sheath with red and black inner cores.

Application: This Solar cable is intended for use in Photovoltaic power supply systems. Optimum operating temperature is between -40°C to +90°C. It may be installed as free moving, fixed or hanging. It can also be installed in cable trays, conduits, on or in Walls.

Conductor: Tinned Copper

Voltage: 0.6/1Kv AC, 1800V DC

Insulation: Electron Beam Cross Linked XLPE

Sheath: Electron Beam Cross Linked XLPE

Temperature Rating: -40°C to + 120°C

Max. Conductor Temperature: 120 °C

Standard: PV1-F of TUV 2 PfG 1169/08.2007

Life Expectancy: 25 Years

Fire Performance:

Vertical flame spread of a single cable: IEC 60332-1

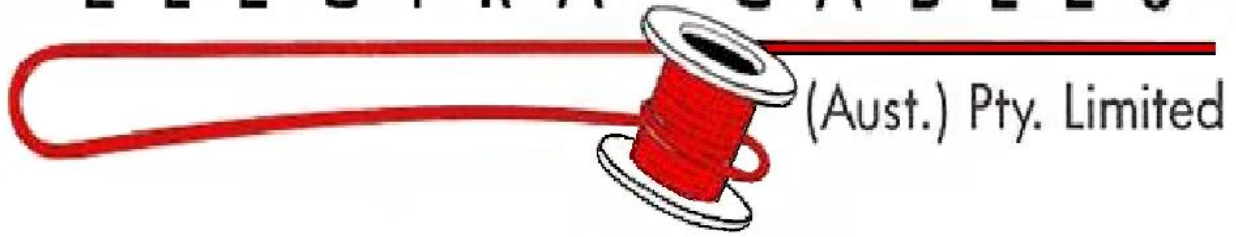
Smoke Density: IEC61034, EN50268-2

Content of Halogen hydracids 0mg/g: IEC670754-1 EN50267-2-1

Technical Data:

Electra Cables Part No.	Nominal area mm ²	NO.& Diameter of wires No/mm	Approx Overall Diameter mm	Current carrying capacity @ 25°C A	Conductor Resistance Ω/Km at 20°C	Approx Mass per 100m Kg
Single Core						
PV56031	4	52/0.30	4.85	52	5.09	5.4
PV84031	6	78/0.30	5.50	67	3.39	7.5
PV14201	10	84/0.40	9.02	98	1.95	16.0
PV22801	16	126/0.40	10.10	130	1.24	22.0
PV1250	25	196/0.40	12.00	176	0.795	302
PV1350	35	276/0.4 0	13.60	218	0.565	445
Twin Core						
PV56032	4	52/0.30	6.1x13.8	52	5.09	10.9
PV84032	6	78/0.30	6.8x14.8	67	3.39	15.1
PV14202	10	132/0.30	8.5x17.0	93	1.92	24

ELECTRA CABLES



Reference ambient air temperature: 60°C
Maximum conductor temperature: 120° C

Conductor	Current Carrying Capacity (A) Single Core		
	Unenclosed in air	Unenclosed touching surface	Unenclosed next to other cables
1.5	30	29	24
2.5	41	39	33
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176

Temperature variation factor:

Ambient air temperature °C	Variation factor
≤ 60°C	1.00
70	0.91
80	0.82
90	0.71
100	0.58
110	0.41