

# SOLAR SERIES

High Performance Flexible Rubber  
(PV1-F) Solar Cable 0.9/1.8kV DC 120°C



FIG 1169 PV1-F 1X4.0mm² 1.8KV DC FIRSTFLEX CABLES

**APPLICATIONS:**

**Solar** Suitable for cabling between interconnected solar modules or DC/AC inverter (photovoltaic power supply systems).

**Power** Switchboards, flexible droppers from busbars, transformers, load banks or other equipment requiring fixed or flexible cable for medium industrial applications.

**PRODUCT FEATURES:**

- ▶ Tinned fine stranded copper conductor
- ▶ High flexibility
- ▶ UV resistant
- ▶ Environmentally friendly
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

**CONSTRUCTION:**

**Conductor** Annealed tinned copper stranded extreme flexibility (Class 5 & 6).

**Insulation** XLR 120°C Compound (PV1-F).

**Sheath** XLR Compound.

**CHARACTERISTICS:**

**Operating Temperature Range** -40°C to 90°C.

**Maximum Conductor Temperature** 120°C.

**Rated Voltage** U<sub>o</sub>/U 0.6/1kV AC Voltage. U<sub>o</sub>/U 0.9/1.8kV DC Voltage.

**Minimum Bending Radius** Fixed 4 x cable diameter / Flexing 6 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colours** Single Core – Black.

2 Core – Black, Red.

**Relative Standards** AS/NZS 5033:2014, IEC 60332-1, IEC 60228, IEC 60754-1, IEC 61034, **RoHS** Compliant and **CE** Certified.

**Approvals** TÜV 2 Pfg 1169/08.2007 PV1-F Cert No: T 50402137 (To verify TÜV Rheinland certificate, go to [www.tuv.com](http://www.tuv.com) > Certificate Database).

Code	No. of Cores x Size (mm²)	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Current carrying capacity 60°C ambient temperature (free air)	Approx. Weight (Kg/Km)
SOLAR1/4.0	1 x 4.0	52 / 0.30	4.60	55	60
SOLAR2/4.0	2 x 4.0	52 / 0.30	4.60 x 9.40	55	120
SOLAR1/6.0	1 x 6.0	84 / 0.30	5.30	70	78
SOLAR2/6.0	2 x 6.0	84 / 0.30	5.30 x 10.80	70	156
SOLAR1/10	1 x 10	84 / 0.40	9.00	98	122
SOLAR1/16	1 x 16	128 / 0.40	10.20	132	180
SOLAR1/25	1 x 25	192 / 0.40	12.00	176	275
SOLAR1/35	1 x 35	276 / 0.40	13.80	218	366

TRAFFIC, SOLAR, IRRIGATION & GARDEN LIGHTING CABLE

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