

PV1-F



- 1 Flexible tinned copper core class 5 - IEC 60228
- 2 Insulation: halogen-free cross-linked compound
Colour: white
- 3 Sheath: halogen-free cross-linked compound
Standard colours: black, red

Characteristics

- Use temperature: -40°C to +90°C
- Maximum permissible core temperature: 120°C
- Maximum core temperature: 250°C in short-circuit (5 seconds)
- Rated voltage: 0.6/1 kV A.C. - 0.9/1.5 kV D.C.
- Maximum voltage: 1.2 kV A.C. - 1.8 kV D.C.
- Test voltage: 6.5 kV A.C. - 15 kV D.C. in accordance with EN 50395
- Flame retardant category C2 in accordance with NF C 32-070, IEC 60332-1
- Smoke opacity in accordance with IEC 61034-2 (low smoke emission)
- Flue gas and smoke corrosivity in accordance with IEC 60754-1, IEC 60754-2 (halogen-free)
- Resistance per unit length at 20°C in accordance with IEC 60228
- Permissible current carrying capacity in accordance with 2 Pfg 1169/08.07
- Excellent weather resistance
- Cold bending: -40°C
- Excellent UV-resistance in accordance with 2 Pfg 1169/08.07
- Age-related wear 20000h at 120°C in accordance with IEC 60216
- Ozone resistance in accordance with EN 50396

Marking

OMERIN SOLARPLAST PV1-F 1x cross-section mm² -
Year/Month - 0.6/1 kV A.C. - 0.9/1.5 kV D.C. -
CE - TÜV No. R 60038946

Approvals - Standardss

- Approved by TÜV Rheinland: 2 Pfg 1169/08.07 certificate TÜV No. R 60038946
- IEC 60228, NF C 32-070, IEC 60332-1, IEC 61034-2, IEC 60754-1, IEC 60754-2, UTE C 15-712-1, UTE C 32-502, IEC 60 811-2-1

Packaging

Rings. Coils. Reels.

Applications

Class II single-pole double insulation cable with low emission of smoke and corrosive gases in the event of fire - used to supply photovoltaic solar systems meeting the requirements of standards UTE C 15-712-1, UTE C32-502 and 2Pfg 1169/08.07.

Nominal cross-section (mm ²)	Nominal composition	Nominal external diameter (mm)	Approximate weight per unit length (kg/km)
2.5	50 x 0.250	4.4	38
4	50 x 0.300	5.0	55
6	80 x 0.300	5.5	76
10	80 x 0.400	6.7	113
16	126 x 0.400	8.4	174
25	196 x 0.400	10.2	270
35	266 x 0.400	11.2	353
50	380 x 0.400	13.4	502
70	326 x 0.500	15.5	687
95	436 x 0.500	16.9	893
120	570 x 0.500	19.5	1160
150	712 x 0.500	21.3	1415
185	854 x 0.500	23.2	1759
240	1184 x 0.500	26.5	2328