

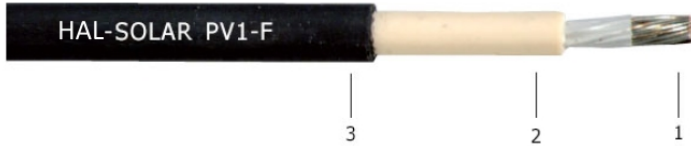


HALLEY CABLES

HAL-SOLAR PV1-F

Low voltage power cables (0.6/1 kV)

Flexible, weather resistant power cable



Construction:

- 1. Conductor : flexible tinned copper, class 5, IEC/EN 60228.
- 2. Insulation : halogen free, crosslinked polyolefin-compound.
- 3. Outer sheath : special halogen free, crosslinked compound, flame retardant.
- *Core colours : see colour scheme.
- **Sheath colours : see colour scheme.

Technical data and tests:

- Rated voltage U_0/U : 0.6/1 kV (AC).
- Rated voltage U_0/U : 0.9/1.5 kV (DC).
- Test voltage : 6.5 kV AC, acc. to EN 50395.
- Ambient temperature : -40° C up to +110° C.
- Max. conductor temperature : 120° C (20 000 h) acc. to IEC/EN 60216-1.
- Max. voltage U_{max} : 1.8 kV, DC (conductor/conductor, non earthed system, circuit not under load).
- Min. bending radius : 4 x diameter.
- Expected lifetime : > 25 years acc. IEC/EN 60216-1.

Standards:

- Low smoke emission : IEC/EN 61034.
- Flame retardancy : IEC/EN 60332-1-2.
- Halogen free : EN 50267-2-1, IEC/EN 60684-2.
- Low corrosivity of gases : EN 50267-2-2.
- Low toxicity of gases : NF X70-100-1+2.
- UV-resistance : HD 605/A1.
- Ozone and weather resistance: EN 50396.
- Acid and alkaline resistance : IEC/EN 60811-2-1.
- Cold resistance : IEC/EN 60811-1-4.

Properties:

- Outstanding microbe resistance.
- Outstanding ammoniac resistance.
- Outstanding oil and grease resistance.
- Hydrolysis resistance.
- Very low water absorption.
- High wear and abrasion resistance.
- Easy cable stripping.
- Easy feeding.
- Tinned conductors prevent corrosion at junction and connection points.

Applications:

Flexible, weather resistant power cable. This cable is specially designed for the demanding applications in photovoltaic systems. The optimal cable link between solar modules and between modules and the inverter. It is suitable for rooftop and ground mounted systems, for rooftop and ground mounted systems; it can be laid outdoors, indoors and in pipe conducts. Not suitable for direct burying in ground. The cable is double insulated and therefore suitable for use in installations of safety class II.

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DIMENSIONS

Section mm ²	Outer diameter mm	Weight kg/km	Conductor resistance at 20° C Ω/km
4	5,1	53	5,09
6	5,8	75	3,39
10	7,5	130	1,95
16	8,5	185	1,24
25	9,8	268	0,795
35	10,9	363	0,565
Current carrying capacity acc. to method of installation			
Section mm ²	Single cable free in air A	Single cable on a surface A	2 cables in contact on a surface A
4	55	52	44
6	70	67	57
10	98	93	79
16	132	125	107
25	176	167	142
35	218	207	176
Conversion factor for temperature variations			
Ambient temperature		Conversion factor	
up to 60° C		1	
70° C		0,91	
80° C		0,82	
90° C		0,71	
100° C		0,58	
110° C		0,41	

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