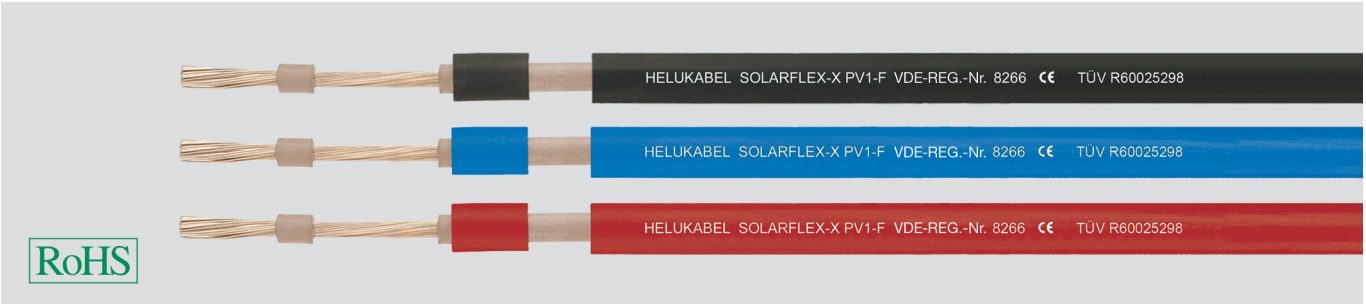
SOLARFLEX®-X PV1-F



Technical data

- **Temperature range**
  -40°C to +90°C
  max. temperature at conductor +120°C
- **Short circuit temperature**
  200°C (short circuit duration up to 5 s)
- **Nominal voltage**
  VDE 600/1000 V AC
  1800 V DC conductor/conductor
- **AC test voltage**
  10000 V
- **Minimum bending radius**
  flexing 10x cable Ø
  fixed installation 4x cable Ø
- **Highest permissible Voltage**
  - DC:
    Conductor/Conductor 1,8 kV
    Conductor/Earth 0,9 kV
  - AC: Conductor/Earth 0,7 kV
  - Three phase: Conductor/Conductor 1,2 kV

Cable structure

- Tinned copper-conductor, to DIN VDE 0295 cl.5, fine-wire, IEC 60228 cl.5
- Core insulation of cross-linked Polyolefin
- Core identification white
- Outer sheath of cross-linked Polyolefin
- Sheath colour see table below
- with meter marking

Properties

- Double-insulated
- Ozone resistant acc. to EN 50396
- Weather und UV resistant acc. to HD 605/A1
- Halogen-free acc. to DIN EN 50267-2-1, EN 60684-2
- Resistant to acid and bases acc. to EN 60811-2-1
- Flame retardant to DIN VDE 0482-332-1-2, DIN EN 60332-1-2/ IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Very robust and abraison-resistant sheath acc. to DIN EN 53516
- Anticipated service life: 25 year
- Hydrolysis and ammoniac resistant

Approvals

- According to PV1-F requirement profile for PV cable DKE / VDE AK 411.2.3
- VDE (Reg. 8266)
- TÜV (2 PfG 1169 / 08.2007, R60025298)
- UL certification in progress (UL Subject 4703)

Note

- Not for direct installation in ground
- Version with rodent protection available: SOLARFLEX®-X PV1-F NTS

Application

The SOLARFLEX®-X PV1-F is used for cabling solar modules.
CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No.cores x cross-sec. mm²	Sheath colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG-No.
704225	1 x 2,5	black	4,5	24,0	42,0	14
705892	1 x 2,5	blue	4,5	24,0	42,0	14
705891	1 x 2,5	red	4,5	24,0	42,0	14
704226	1 x 4	black	5,2	38,4	60,0	12
705776	1 x 4	blue	5,2	38,4	60,0	12
705775	1 x 4	red	5,2	38,4	60,0	12
704227	1 x 6	black	5,9	57,6	82,0	10
705778	1 x 6	blue	5,9	57,6	82,0	10
705777	1 x 6	red	5,9	57,6	82,0	10
704228	1 x 10	black	6,9	96,0	123,0	8
705894	1 x 10	blue	6,9	96,0	123,0	8
705893	1 x 10	red	6,9	96,0	123,0	8
704229	1 x 16	black	8,3	153,6	190,0	6
706840	1 x 16	blue	8,3	153,6	190,0	6
706839	1 x 16	red	8,3	153,6	190,0	6
704230	1 x 25	black	10,0	240,0	285,0	4
704231	1 x 35	black	11,0	336,0	376,0	2
704232	1 x 50	black	13,0	480,0	530,0	1
704233	1 x 70	black	15,3	672,0	745,0	2/0
704234	1 x 95	black	17,0	912,0	960,0	3/0
705738	1 x 120	black	19,1	1152,0	1220,0	4/0
705739	1 x 150	black	22,7	1440,0	1550,0	300 kcmil
706288	1 x 185	black	25,5	1776,0	1930,0	350 kcmil
706289	1 x 240	black	28,3	2304,0	2550,0	500 kcmil

Dimensions and specifications may be changed without prior notice.

19.08.2015 / Dimensions and specifications may be changed without prior notice.