



Technical data

- **Temperature range**
-40 °C to +90 °C
Max.Temp. at conductor +120 °C
- **Nominal voltage**
According to VDE 600/1000 V AC
1800 V DC conductor/conductor
- **AC test voltage**
10000 V
- **Minimum bending radius**
fixed installation approx. 4 x outer diameters
flexing 10 x cable diameter

Cable structure

- Bare copper, tinned, finely stranded according to DIN VDE 0295 class 5 and IEC 60228 cl. 5
- Double-insulated
- Insulation cross-linked Polyolefin
- Outer sheath cross-linked Polyolefin
- Sheath colour black, red or blue

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)
- RoHS and CE compliant
- UL certification in progress (UL Subject 4703)

Properties

- Ozone resistant acc. to EN 50396
- Weather und UV resistant acc. to HD 605/A1
- Halogen-free acc. to EN 50267-2-1, EN 60684-2
- Resistant to acid and bases acc. to EN 60811-2-1
- Flame-resistant acc. to VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1
- Very robust and abrasion-resistant sheath acc. to DIN EN 53516
- Resistant to short-circuits up to 200 °C thanks to their double insulation; short-circuits temperature 200 °C / 5sec.
- Anticipated service life - 25 years
- Hydrolysis and ammoniac resistant

Note

- Not for direct installation in ground
- Version with rodent protection available: Solarflex-X PV1-F NTS (V2A braiding)
- All types with metre marking

Application

The SOLARFLEX®-X PV1-F is used for cabling solar modules.

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

Dimensions and specifications may be changed without prior notice.