



Technical Data

- **Temperature range**
-40 °C to +90 °C
Max. temp. at conductor +120 °C
- **Nominal voltage**
According to VDE U₀/U 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 cables DKE/VDE AK 411.2.3
- VDE (Reg. 8266)
- TÜV (2 PfG 1169/08.2007, R60025298)
- RoHS and CE compliant

Properties

- Ozone resistant acc. to EN 50396
- Weather and 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/ 5 sec.
- Anticipated service life - 25 years
- Hydrolysis and ammoniac resistant

Application

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

Notes

- Version with rodent protection available
- UL version on request
- All types with metre marking

Part No.	No. cores x cross-sec. mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	Current-carrying capacity [A] at 60°C	Conductor resistance Ω / km at 20°C	Core / jacket colour
704225	1 x 2,5	4,5	24,0	42	41	8,210	natural/black
705891	1 x 2,5	4,5	24,0	42	41	8,210	natural/red
705892	1 x 2,5	4,5	24,0	42	41	8,210	natural/blue
704226	1 x 4	5,2	38,4	60	55	5,090	natural/black
705775	1 x 4	5,2	38,4	60	55	5,090	natural/red
705776	1 x 4	5,2	38,5	60	55	5,090	natural/blue
704227	1 x 6	5,9	57,6	82	70	3,390	natural/black
705777	1 x 6	5,9	57,6	82	70	3,390	natural/red
705778	1 x 6	5,9	57,6	82	70	3,390	natural/blue
704228	1 x 10	6,9	96,0	123	98	1,950	natural/black
705893	1 x 10	6,9	96,0	123	98	1,950	natural/red
705894	1 x 10	6,9	96,0	123	98	1,950	natural/blue
704229	1 x 16	8,3	153,6	190	132	1,240	natural/black
706839	1 x 16	8,3	153,6	190	132	1,240	natural/red
706840	1 x 16	8,3	153,6	190	132	1,240	natural/blue
704230	1 x 25	10,0	240,0	285	176	0,795	natural/black
704231	1 x 35	11,0	336,0	376	218	0,565	natural/black
704232	1 x 50	13,0	480,0	530	276	0,393	natural/black
704233	1 x 70	15,3	672,0	745	347	0,277	natural/black
704234	1 x 95	17,0	912,0	960	416	0,210	natural/black
705738	1 x 120	19,1	1152	1220	488	0,164	natural/black
705739	1 x 150	22,7	1440	1550	566	0,132	natural/black
706288	1 x 185	25,5	1776	1930	644	0,108	natural/black
706289	1 x 240	28,3	2304	2550	775	0,0817	natural/black

Dimensions and specifications may be changed without prior notice.