

SOLARFLEX®-X PV1-F



The perfect cable for photovoltaic systems

With our SOLARFLEX®-X PV1-F HELUKABEL® we offer a product in our designated Green Line, which is in the scope of our long lasting commitment to renewable energies and has TÜV and VDE certifications along with the highest quality standards typical for HELUKABEL® products. The production takes place in our own cable factory in Germany. Therefore we can act flexible, fast and in a cost-effective manner to market requirements. Cross-sections from 1 x 2,5 mm² up to 1 x 95 mm² are available from stock. If required we are able to deliver SOLARFLEX®-X PV1-F up to 1 x 240 mm². The wire is used globally in stand-alone and networked systems as a module or branch wire. Both insulation layers are set-off coloured from each other for improved handling: black sheathing on natural colour conductor insulation in the standard version, or optionally, red or blue sheathing to simplify local installation. Twin wire SOLARFLEX®-X PV1-F in cross-sections from 2 x 2,5 mm² up to 2 x 16 mm² are also available. In addition we offer pre-assembled cables, connectors and tools for professional assembly of photovoltaic installations.

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. 10 x outer Ø
flexing (occasional) approx. 4 x cable Ø

Cable structure

- bare copper, tinned, finely stranded
- according to DIN VDE 0295 Class 5 and IEC 60228 cl.
- double-insulated
- Insulation cross-linked Polyolefin
- outer sheath cross-linked Polyolefin
- sheath colours: black, red, blue

Properties

- **approval:** VDE (Reg. 8266), TÜV (2 Pfg 1169/08.2007, R60025298), UL on request, RoHS and CE compliant
According to PV1-F requirement profile for PV cables DKE/VDE AK 411.2.3
- 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 according 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

Notes

- version with **UL approval** on request
- version with **rodent protection** available
- all types with meter marking

Dimensions and specifications may be changed without prior notice

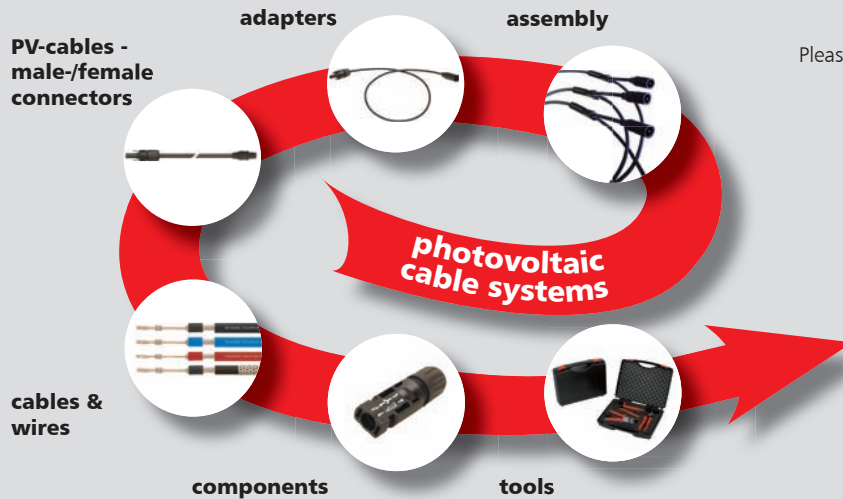
Our products for
renewable energy



HELUKABEL[®]
GREEN LINE

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] at60°C	Conductor resistance Ω / km at 20°C	Sheath 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	1152,0	1220	488	0,164	natural/black
705739	1 x 150	22,7	1440,0	1550	566	0,132	natural/black
706288	1 x 185	25,5	1776,0	1930	644	0,108	natural/black
706289	1 x 240	28,3	2304,0	2550	775	0,0817	natural/black

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