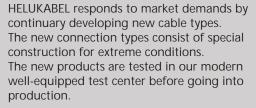


In our production area of 4,500 square metres, 100 employees have obtained an annual production of about 4,500 tons, while in about 25,000 km of cable and 130,000 km of wire.



















HELUKABEL GmbH Headquarters Dieselstraße 8-12 D-71282 Hemmingen Germany Tel. +49-7150-9209-0 Fax +49-7150-81786 info@helukabel.de

Other branches: Switzeraland · Netherlands Sweden · France · Poland Czech Republic · Slovakia South Korea · China · India Singapore · Turkey

Cables for Photo-voltaic





SOLARFLEX 100 · 101 · 102 · 104

double-insulation, 0,6/1 kV, UV-resistant, halogen-free, with VDE Reg. No. and TÜV Certificate

Application

The power of the wind, sun and water are alternative power sources which are always available to us here on earth and inexhaustible. These cables are intended for photovoltaic systems. Photo-voltaic systems convert the energy of the sun directly into electrical energy. The cable is UV radiation and temperature resistant, and can be used to connect individual solar cells. Because of their excellent weather resistance, the cables can also be installed outdoors, but not buried in the ground or laid in water.

SOLARFLEX 102

2-pole special cable for installation protected against short-circuit to earth and short-circuit, as a connecting cable from a module to an inverter.

C € = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.



Technical data

SOLARFLEX 100

Temperature range

Flexing -40°C to $+80^{\circ}\text{C}$ Flexing installation -50°C to $+90^{\circ}\text{C}$

Nominal voltage 600/1000V AC 1500V DC

a. c. test voltage 50 Hz, 3500V

Minimum bending radius For flexible installation Approx. 8x cable diameters

SOLARFLEX 101

as above, but with Temperature range

Flexing -30°C to +120°C Fixed installation -50°C to +120°C

SOLARFLEX 102

as above, but with Temperature range

Flexing -5°C to $+80^{\circ}\text{C}$ Fixed installation -40°C to $+80^{\circ}\text{C}$

SOLARFLEX 100 LiTPE11Y with TÜV Certificate and VDE Reg. No. 7837

Part No.	No cores x cross-sec mm²	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	Core/ jacket colour
700549	1x2,5	5,8	24,0	55	rd/bk
700277	1x4	6,7	38,4	85	rd/bk
700278	1x6	7,6	57,6	95	rd/bk
700368	1x10	9,6	96,0	110	bk/bk
700369	1x16	11,0	153,6	170	bk/bk

SOLARFLEX 101 LiTPE/TPE with TÜV Certificate and VDE Reg. No. 7836

Part No.	No cores x cross-sec mm ²	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	Core/ jacket colour
78990	1x2,5	6,6	24,0	46	bk/bk
700400	1x4	7,5	38,4	68	bk/bk
78166	1x6	8,3	57,6	95	rd/bk
700610	1x10	10,2	96,0	110	bk/bk
700611	1x16	11,4	153,6	170	bk/bk

Cable structure

SOLARFLEX 100 (LiTPE11Y)

doubleinsulation VDE Reg. No. and TÜV Certificate

Bare copper, fine wire conductors acc. to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5, 1st insulation TPE, colours see table, 2. Insulation PUR, halogen-free and flame-retardant acc. to test type B acc. to VDE 0472 part 804 and IEC 60332-1, colour black

SOLARFLEX 101 (LITPE/TPE)

doubleinsulation VDE Reg. No. and TÜV Certificate as above, but with 1. Core insulation TPE black, 2. Core insulation TPE black

SOLARFLEX 102 (LiYY-OB-600)

doubleinsulation as above, but not halogen-free, 1. Core insulation, special PVC TI2 to DIN VDE 0207, part 4, 2. Core insulation, special PVC YM2 to DIN VDE 0207 part 5, extensively oil resistant self-extinguishing and flame retardant, test method B according to VDE 0472 part 804 and IEC 60332-1, for chemical Resistance see Technical Information table, for colours see table

SOLARFLEX 104 (Li11Y11Y)

doubleinsulation same as SOLARFLEX 100, but with 1. Core insulation PUR

SOLARFLEX 102

I iYY

Part No.	No cores x cross-sec mm²	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	Core/ jacket colour
73740	2x2,5	9,4	48,0	115	rd/bk
73604	2x4,0	11,4	77,0	195	rd/bk
78164	2x6,0	13,1	115,2	300	rd/bk

SOLARFLEX 104

Li11Y11Y

Part No.	No cores x cross-sec mm²	Outer Ø ca. mm	Cop. weight kg/km	Weight ca. kg/km	Core/ jacket colour
700019	1x2,5	5,8	24,0	55	rd/bk
74653	1x2,5	5,8	24,0	55	bu/bk
700020	1x4,0	6,3	38,4	80	rd/bk
74655	1x4,0	6,3	38,4	80	bu/bk
700021	1x6,0	7,6	57,6	95	rd/bk
78163	1x6,0	7,6	57,6	95	bu/bk
700612	1x10	9,6	96,0	110	rd/bk
700613	1x10	9,6	96,0	110	bu/bk
700614	1x16	11,0	153,6	170	rd/bk
701437	1x16	11,0	153,6	170	bu/bk