

# HELUPOWER® SOLARFLEX®-X H1Z2Z2-K UL

EN/IEC 1500 V DC, UL 2000 V DC



HELUPOWER® SOLARFLEX®-X H1Z2Z2-K UL TÜV CE (UL) E530712 PV WIRE

## TECHNICAL DATA

Cross-linked single core cable acc. to DIN VDE 0283-618 / DIN EN 50618, IEC 62930, UL-Std. 4703 (PV Wire)

Temperature range	fixed -40°C to +90°C
Permissible operating temperature of the conductor	+120°C
Nominal voltage	AC U <sub>0</sub> /U 1000/1000 V DC U <sub>0</sub> /U 1500/1500 V UL (PV) DC 2000 V
Test voltage	6500 V
Minimum bending radius	fixed 5x Outer-Ø

## ■ CABLE STRUCTURE

- Copper wire tinned, finely stranded acc. to DIN VDE 0295 Class 5 / IEC 60228 Class 5, UL Std. 1581
- Core insulation: cross-linked compound
- x = without protective conductor
- Outer sheath: cross-linked compound
- Sheath colour: black

## ■ PROPERTIES

- resistant to: UV radiation, ozone, weathering effects, water
- for outdoor use
- direct burial
- halogen-free

## ■ TESTS

- halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1
- flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2, UL VW-1
- smoke density acc. to DIN VDE 0482-1034-1+2 / DIN EN 61034-1+2 / IEC 61034-1+2
- UV-resistant acc. to DIN VDE 0283-618 / DIN EN 50618 Appendix E
- ozone-resistant acc. to DIN VDE 0283-618 / DIN EN 50618
- weather-resistant acc. to DIN VDE 0283-618 / DIN EN 50618 Appendix E
- DC Voltage resistance of the insulation acc. to DIN VDE 0283-618 / DIN EN 50618 Tab. 2
- Sunlight Resistance (SUN RES) acc. to UL Std. 1581 Sec. 1200
- certifications and approvals:  
TÜV Rheinland

## ■ APPLICATION

HELUPOWER® SOLARFLEX®-X H1Z2Z2-K is used for wiring solar modules. Suitable for direct burial; recommendation: laying in pipes. Not suitable for permanent installation in water. The maximum permissible DC voltage of the system in which the cable is installed must not exceed 1.8 kV. The cable is suitable for use in and on devices and systems with protective insulation (protection class II). Approbations acc. to EN, IEC and UL allow for an economical storekeeping and simplification of parts lists.

Part no.	No. cores x cross-sec. mm <sup>2</sup>	AWG-No.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.
11025147	1 x 4	12	6.3 - 6.7	38.4	66.8
11025148	1 x 6	10	6.8 - 7.2	57.6	87.3
11025149	1 x 10	8	8.3 - 8.9	96.0	140.5