

HELUPOWER® SOLARFLEX®-X PREMIUM

Solar cable with improved water resistance acc. to TÜV Rheinland 2 PFG 2750



TECHNICAL DATA

Cross-linked single core cable acc. to DIN VDE 0283-618 / DIN EN 50618, IEC 62930, TÜV Rheinland 2 PFG 2750

Temperature range	fixed -40°C to +90°C
Permissible operating temperature of the conductor	+120°C
Nominal voltage	AC U ₀ /U 1000/1000 V DC U ₀ /U 1500/1500 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
- 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
- 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
- Improved water resistance acc. to TÜV Rheinland 2 PFG 2750

APPLICATION

HELUPOWER® SOLARFLEX®-X PREMIUM is used for wiring solar modules on land and in floating solar parks on the water. A wide range of applications in different countries is possible due to EN 50618 and IEC 62930 certification. Suitable for direct burial; we recommend: laying in pipes. Not suitable for permanent installation in water. The maximum 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).

NOTES

- the conductor is metrically (mm²) constructed, AWG numbers are approximated, and are for reference only

Part no.	No. cores x cross-sec. mm ²	AWG, approx.	Outer Ø mm, approx.	Cu-weight kg/km	Weight kg/km, approx.
11024775	1 x 2.5	14	4.8 - 5.4	24.0	45.0
11024776	1 x 4	12	5.2 - 5.9	38.4	60.0
11024777	1 x 6	10	5.8 - 6.4	57.6	80.0
11024778	1 x 10	8	6.9 - 7.7	96.0	126.0
11024779	1 x 16	6	7.7 - 8.5	153.6	170.0
11024780	1 x 25	4	10.0 - 10.8	240.0	270.0
11024781	1 x 35	2	11.5 - 12.3	336.0	365.0
11024782	1 x 50	1	13.2 - 14.0	480.0	508.0
11024783	1 x 70	2/0	15.6 - 16.6	672.0	729.0
11024784	1 x 95	3/0	17.4 - 18.4	912.0	923.0
11024785	1 x 120	4/0	19.4 - 20.4	1152.0	1178.0
11024786	1 x 150	300 kcmil	20.7 - 21.7	1440.0	1460.0
11024787	1 x 185	350 kcmil	24.0 - 25.0	1776.0	1777.0
11024788	1 x 240	450 kcmil	26.6 - 27.8	2304.0	2252.0