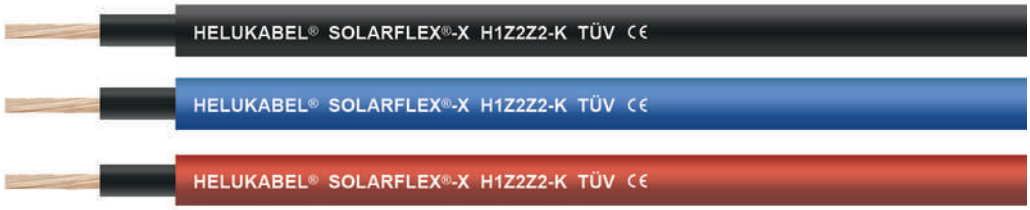
SOLARFLEX®-X H1Z2Z2-K

1500 V DC



TECHNICAL DATA

Cross-linked single core cable acc. to DIN VDE 0283-618 / DIN EN 50618

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: see table

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
- water-resistant acc. to DIN VDE 0285-525-2-21 / DIN EN 50525-2-21 Appendix E
- DC Voltage resistance of the insulation acc. to DIN VDE 0283-618 / DIN EN 50618 Tab. 2
- certifications and approvals:
  EAC
  TÜV Rheinland

APPLICATION

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). Minimum temperature during installation and handling: -25 °C.

NOTES

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

No. cores x cross-sec. mm²	AWG, approx.	Outer-Ø min - max mm	Cu factor per km	Weight kg/km, approx.	blue Part no.	red Part no.	black Part no.
1 x 2.5	14	4.8 - 5.4	24.0	45.0	**713544**	**713543**	**713529**
1 x 4	12	5.2 - 5.9	38.4	60.0	**713546**	**713545**	**713530**
1 x 6	10	5.8 - 6.4	57.6	80.0	**713570**	**713569**	**713531**
1 x 10	8	6.9 - 7.7	96.0	126.0	**713572**	**713571**	**713532**
1 x 16	6	7.7 - 8.5	153.6	170.0	**11022069**	**11022068**	**11022067**
1 x 25	4	10.0 - 10.8	240.0	270.0	**11022072**	**11022071**	**11022070**
1 x 35	2	11.5 - 12.3	336.0	365.0	**11022075**	**11022074**	**11022073**
1 x 50	1	13.2 - 14.0	480.0	508.0	**11022078**	**11022077**	**11022076**
1 x 70	2/0	15.6 - 16.6	672.0	729.0	**11022081**	**11022080**	**11022079**
1 x 95	3/0	17.4 - 18.4	912.0	923.0	**11022084**	**11022083**	**11022082**
1 x 120	4/0	19.4 - 20.4	1152.0	1178.0	**11022087**	**11022086**	**11022085**
1 x 150	300 kcmil	20.7 - 21.7	1440.0	1460.0	**11022090**	**11022089**	**11022088**
1 x 185	350 kcmil	24.0 - 25.0	1776.0	1777.0	**11022093**	**11022092**	**11022091**
1 x 240	450 kcmil	26.6 - 27.8	2304.0	2252.0	**11022096**	**11022095**	**11022094**

28.11.2024 / We reserve the right to make technical changes; the imprint in the image is purely exemplary