

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: 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).

NOTES

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

No. cores x cross-sec. mm ²	AWG, approx.	Outer-Ø min - max mm	Cu-weight kg/km	Weight kg/km, approx.	blue	red	black
					Part no.	Part no.	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



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