



AMOSOLAR K-FLEX 1500V DC

AmoSolar K-Flex PV 1500V is a flexible and reliable solar cable developed for large-scale photovoltaic installations on rooftops and ground-mounted systems. It is suitable for both underground and above-ground installation, offering excellent versatility across a wide range of solar energy projects.

The cable is ideally used as a 1500V DC bus cable for connecting solar panels with IPCs (Insulated Piercing Connectors). It is also well suited for linking string combiner boxes to inverters in conventional PV systems.

Featuring a PVC outer sheath, AmoSolar K-Flex PV 1500V is soft, easy to handle, and quick to install in various environments, ensuring efficient installation and long-term performance.

APPLICATION

Cable is suitable for installation in air and in ground up to 1500VDC in solar applications.
Fixed installation outdoor

STANDARDS

Flame retardant

IEC 60332-1

Construction

EN 50618 (IAP)

IEC 60502-1:2021

Conductor

EN 60228

CONSTRUCTION

Bending radius - Final mount fixed

8 xOD

Bending radius - Minimum

12 xOD

Color

Black, Red other options available

CONSTRUCTION

Conductor

AAC (AL1) IEC60228-2

Insulation

XLPE

Labeling example

AMOSolar K-Flex 1x 50mm² 1500V DC, YY-MM, AMOKABEL-K

Outer sheath

PVC UV-resistant

Packaging

Drum

PROPERTIES

Max. Short circuit temperature

250°C

Max temperature

90 °C

Min. temperature

-20 °C

AC Voltage rating U_0/U (U_m)

1,8/3(3,6)kV

Voltage rating (DC)

1500V

Watertightness

No



Name	Cross section [mm ²]	Conductor diameter [mm]	Insulation thickness [mm]	Outer sheath thickness [mm]	Outer diameter [mm]	Max resistance of conductor @20°C [Ω/km]	Total weight [kg/km]	Short circuit current [A]
AXK-R 1x16 1500V DC	16	4.7	0.7	1.4	8.9	1.91	83	1.4
AXK-R 1x25 1500V DC	25	5.9	0.9	1.4	10.5	1.2	120	2.5
AXK-R 1x35 1500V DC	35	6.9	0.9	1.4	11.5	0.868	152	3.5
AXK-R 1x50 1500V DC	50	8	1	1.4	12.7	0.641	203	4.9
AXK-R 1x70 1500V DC	70	9.7	1.1	1.4	14.7	0.443	273	6.8
AXK-R 1x95 1500V DC	95	11.4	1.1	1.5	16.6	0.32	355	9.2
AXK-R 1x120 1500V DC	120	13	1.2	1.5	18.5	0.253	445	11.6
AXK-R 1x150 1500V DC	150	14.1	1.4	1.6	20.1	0.206	529	14.5
AXK-R 1x185 1500V DC	185	15.9	1.6	1.7	22.4	0.164	662	17.8
AXK-R 1x240 1500V DC	240	18.2	1.7	1.8	25.1	0.125	848	23.1
AXK-R 1x300 1500V DC	300	20.4	1.8	1.8	27.7	0.1	1040	28.8
AXK-R 1x400 1500V DC	400	23.7	2	2	31.6	0.0778	1350	38.3
AXK-R 1x500 1500V DC	500	26.5	2.2	2.1	35.1	0.0605	1689	47.8
AXK-R 1x630 1500V DC	630	30.3	2.4	2.2	39.6	0.0469	2146	60.3
AXK-R 1x800 1500V DC	800	44.2	2.6	2.4	44.2	0.0367	2698	76.4

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