



## AMOSOLAR Q-SAFE 1500V DC



Halogen-free

The AmoSolar Q-Safe PV 1500V is a versatile and safety-focused solar cable designed for large-scale photovoltaic installations on rooftops and ground-mounted systems. Suitable for both underground and above-ground installation, it delivers exceptional flexibility and reliability. Ideally suited as a 1500V DC bus cable when connecting solar panels with IPCs (Insulated Piercing Connectors), it is also the perfect solution for linking string combiner boxes to inverters in traditional PV systems.

Featuring a flame-retardant HFFR outer sheath, the AmoSolar Q-Safe PV 1500 is highly flexible, durable, and approved for indoor installation, making it an all-around choice for professional solar energy projects.

## APPLICATION

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

Fixed installation indoor and outdoor

## STANDARDS

### Conductor

IEC 60228 Class 2

### Construction

IEC 60502-1:2021

## CONSTRUCTION

### Color

Black, Red other options available

### Conductor

AAC (AL1) IEC60228-2

## CONSTRUCTION

### Insulation

XLPE

### Labeling example

"AMoSolar Q-Safe 1x 50mm<sup>2</sup> 1500V DC, YY-MM, Amo kraftkabel"

### Outer sheath

PO HFFR

## PROPERTIES

### CPR class

Dca-s2,d2,a2

### Max temperature

90 °C

### Min. temperature

-20 °C

### Voltage rating (DC)

1500V



Name	Cross section [mm <sup>2</sup> ]	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]
AXQ-R 1x16 1500V DC	16	4.7	0.7	1.4	8.9	1.91	103	1.4
AXQ-R 1x25 1500V DC	25	5.9	0.9	1.4	10.5	1.2	143	2.5
AXQ-R 1x35 1500V DC	35	6.9	0.9	1.4	11.5	0.868	177	3.5
AXQ-R 1x50 1500V DC	50	8	1	1.4	11.5	0.641	177	4.9
AXQ-R 1x70 1500V DC	70	9.7	1.1	1.4	14.7	0.443	308	6.8
AXQ-R 1x95 1500V DC	95	11.4	1.1	1.5	16.6	0.32	395	9.2
AXQ-R 1x120 1500V DC	120	13	1.2	1.5	18.5	0.253	493	11.6
AXQ-R 1x150 1500V DC	150	14.1	1.4	1.6	20.1	0.206	582	14.5
AXQ-R 1x185 1500V DC	185	15.9	1.6	1.7	22.4	0.164	725	17.8
AXQ-R 1x240 1500V DC	240	18.2	1.7	1.8	25.1	0.125	922	23.1
AXQ-R 1x300 1500V DC	300	20.4	1.8	1.8	27.7	0.1	1126	28.8
AXQ-R 1x400 1500V DC	400	23.7	2	2	31.6	0.0778	1456	38.3
AXQ-R 1x500 1500V DC	500	26.5	2.2	2.1	35.1	0.0605	1813	47.8
AXQ-R 1x630 1500V DC	630	30.3	2.4	2.2	39.6	0.0469	2296	60.3
AXQ-R 1x800 1500V DC	800	34.2	2.6	2.4	44.2	0.0367	2878	76.4

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