



## AMOSOLAR L-TOUGH PV 1500V

AmoSolar L-Tough PV 1500V is a durable and high-performance solar cable designed for large-scale photovoltaic installations on rooftops and ground-mounted systems. Suitable for both underground and above-ground installations, it offers excellent versatility in demanding environments.

Ideally used as a 1500V DC bus cable for connecting solar panels with IPCs (Insulated Piercing Connectors), it is also the perfect choice for linking string combiner boxes to inverters in traditional solar systems. Featuring a PE outer sheath, the AmoSolar L-Tough PV 1500 provides outstanding mechanical strength, making it especially resilient when installed in the ground under tough conditions. A dependable choice for long-lasting performance and safety in solar energy projects.

## APPLICATION

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

Fixed installation outdoor. Designed for tough conditions.

## STANDARDS

### Conductor

IEC 60228 Class 2

### Construction

IEC 60502-1:2021

## CONSTRUCTION

### Color

Black, Red other options available

### Conductor

Class 2

### Insulation

XLPE

### Labeling example

"AMOSolar L-Tough 1x 50mm<sup>2</sup> 1500V DC, YY-MM, AMOKABEL-K"

### Outer sheath

PE, UV resistant

## PROPERTIES

### 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]
AXL-R 1x16 1500V DC	16	4.7	0.7	1.4	8.9	1.91	83	1.4
AXL-R 1x25 1500V DC	25	5.9	0.9	1.4	10.5	1.2	120	2.5
AXL-R 1x35 1500V DC	35	6.9	0.9	1.4	11.5	0.868	152	3.5
AXL-R 1x50 1500V DC	50	8	1	1.4	12.7	0.641	203	4.9
AXL-R 1x70 1500V DC	70	9.7	1.1	1.4	14.7	0.443	273	6.8
AXL-R 1x95 1500V DC	95	11.4	1.1	1.5	16.6	0.32	355	9.2
AXL-R 1x120 1500V DC	120	13	1.2	1.5	18.5	0.253	445	11.6
AXL-R 1x150 1500V DC	150	14.1	1.4	1.6	20.1	0.206	529	14.5
AXL-R 1x185 1500V DC	185	15.9	1.6	1.7	22.4	0.164	662	17.8
AXL-R 1x240 1500V DC	240	18.2	1.7	1.8	25.1	0.125	848	23.1
AXL-R 1x300 1500V DC	300	20.4	1.8	1.8	27.7	0.1	1040	28.8
AXL-R 1x400 1500V DC	400	23.7	2	2	31.6	0.0778	1350	38.3
AXL-R 1x500 1500V DC	500	26.5	2.2	2.1	35.1	0.0605	1689	47.8
AXL-R 1x630 1500V DC	630	30.3	2.4	2.2	39.6	0.0469	2146	60.3
AXL-R 1x800 1500V DC	800	34.2	2.6	2.4	44.2	0.0367	2698	76.4

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