



# LIMAZ

## S<sup>⚡</sup>LAR CABLE

Limaz Solar Cable Catalog

[www.limaz.co.th](http://www.limaz.co.th)

# PRODUCT CERTIFICATES



- GB/T 19001-2016 / ISO 9001:2015 38523QFT2DLROS
- UL4703 Photovoltaic wire E535462
- HIZZZ2-K / 62930IEC131 by TUV SUD B1161110001
- PV1-F by TUV SUD B1161110002
- PV1500DC-AL by TUV Rheinland J50490609
- Solar PV Connector by TUV Rheinland R50563047

- Copper-aluminum transition connector by TUV SUD B1161110003
- Solar PV Connector by TUV SUD B1161161110005
- Solar AC Cable PV07AC-F by TUV SUD B1161110006
- CE ECM by Ente Certificazione Macchine 3N220926.ZSEQW12
- CE by UDEM International Certification M.2021.206.C66230

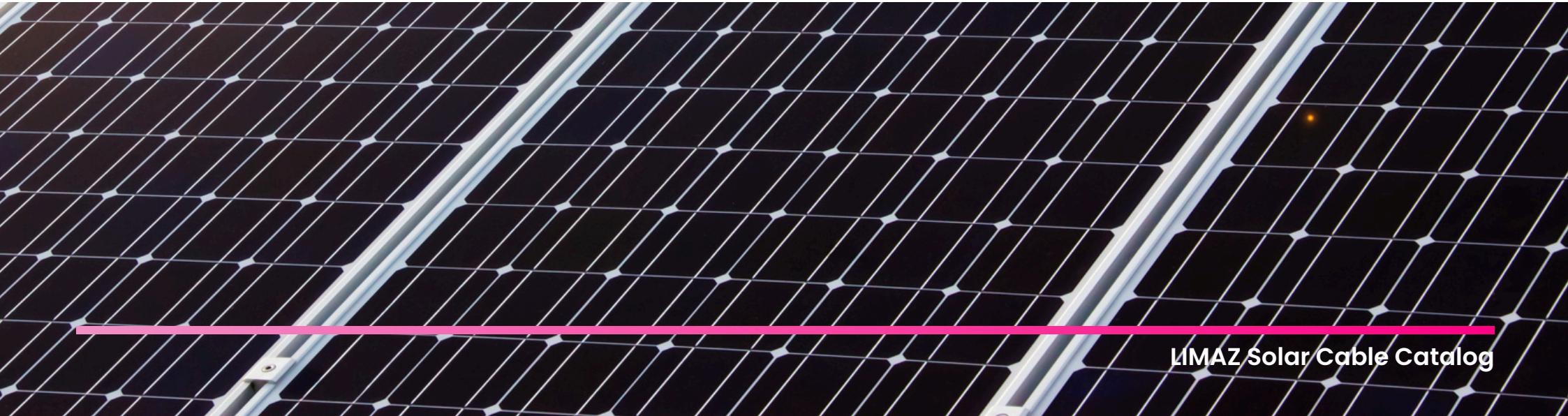
## PHOTOVOLTAIC PROJECT

Since 2006, our product quality has been improving along with international standards. they are widely used in photovoltaic projects under various environmental conditions.

## PRODUCT APPLICATION TIPS

Photovoltaic cables, photovoltaic connectors and photovoltaic junction boxes are mainly used in photovoltaic power generation systems.

Photovoltaic products shall be able to be used for a long time under the conditions of sunight, rain, snow, high temperature, high humidity and extreme cold. The service life should be more than 20 years. Hower, the PV cable and PV connector shall not be directly buried or immersed in water for a long time. The installation personnel shall receive professional training.



## PRODUCTION CAPACITY

### IN TOTAL WE HAVE:

- 50,000 square meters of production base
- 9 cable production lines
- 10 injection molding machines
- About 300 employees
- Four high-speed irradiation crosslinking devices

### PRODUCTION CAPACITY:

- 24 hours 300 thousand meters photovoltaic cable
- 30,000 sets of connectors per day



# SOLAR DC CABLE



## Application:

Applied to the DC side of solar systems

600V, 1000V, 15000V, 2000V DC

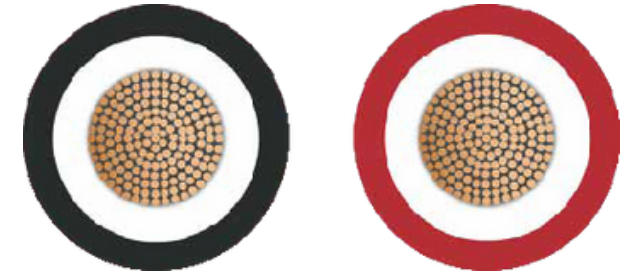
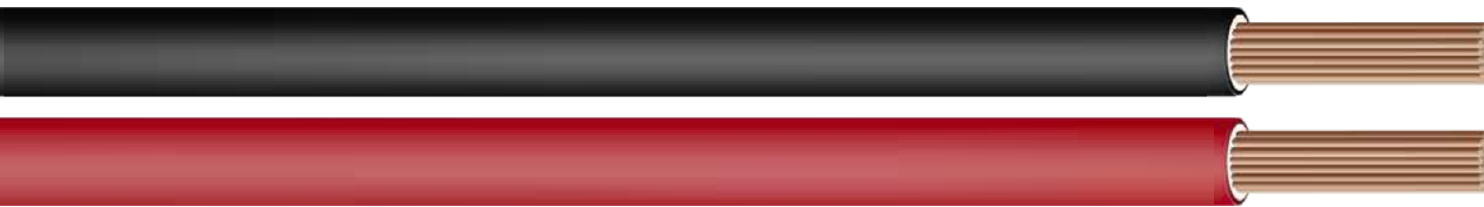
UL4703, IEC62930, EN50618, PPP59074, PPP58209, 2 PFG 2642

1.5mm<sup>2</sup>~35mm<sup>2</sup>

## Product Selection Table

Pass number	Description	Color	Length/Drum (Meters)
LMZ-SBARD-200	LIMAZ Solar Cable 1x4mm <sup>2</sup> , 2000V, Red 200M	red	200 M.
LMZ-SBARD-500	LIMAZ Solar Cable 1x4mm <sup>2</sup> , 2000V, Red 500M	red	500 M.
LMZ-SBABL-100	LIMAZ Solar Cable 1x4mm <sup>2</sup> , 2000V, Black 100M	black	100 M.
LMZ-SBABL-200	LIMAZ Solar Cable 1x4mm <sup>2</sup> , 2000V, Black 200M	black	200 M.
LMZ-SBABL-500	LIMAZ Solar Cable 1x4mm <sup>2</sup> , 2000V, Black 500M	black	500 M.
LMZ-SBBRD-500	LIMAZ Solar Cable 1x6mm <sup>2</sup> , 2000V, Red 500M	red	500 M.
LMZ-SBBRD-1000	LIMAZ Solar Cable 1x6mm <sup>2</sup> , 2000V, Red 1000M	red	1,000 M.
LMZ-SBBBL-200	LIMAZ Solar Cable 1x6mm <sup>2</sup> , 2000V, Black 200M	black	200 M.
LMZ-SBBBL-500	LIMAZ Solar Cable 1x6mm <sup>2</sup> , 2000V, Black 500M	black	500 M.
LMZ-SBBBL-1000	LIMAZ Solar Cable 1x6mm <sup>2</sup> , 2000V, Black 1000M	black	1,000 M.

# BATTERY CABLE



## Application:

Use for Electric Storage System

Rated Voltage 900V

16mm<sup>2</sup>~70mm<sup>2</sup>

UV resistance

Ambient temp: -20°C ~ +90°C

Product Selection Table

Model	Conductor Cross Section	Average thickness	Average thickness	Outer diameter
	mm <sup>2</sup>	(Insulation)	(Sheath)	(Max. mm)
ESS-A09VV-F	1X16	1	0.7	9.8
ESS-A09VV-F	1X25	1.2	0.8	12
ESS-A09VV-F	1X35	1.2	0.8	13.6
ESS-A09VV-F	1X50	1.4	0.8	15.9
ESS-A09VV-F	1X70	1.4	0.9	18

# SOLAR AC CABLE



## Application:

Electric cables for use on AC applications in renewable energy-systems.

Rated Voltage: 450/750V

Conductor cross section: 2C...5C (0.75mm<sup>2</sup>~16mm<sup>2</sup>)

UV resistance

Ambient temp: -40°C ~ +90%



Product Selection Table

Model	Conductor Cross Section		Insulation thickness	Sheath thickness	Cable OD	Conductor resistance
	mm <sup>2</sup>	AWG	mm	mm	mm	Ω/km 20°C
PV07AC-F	3X1	18	0.80	0.74	5.00±0.2	20
PV07AC-F	3X1.5	16	0.80	0.88	5.00±0.2	13.7
PV07AC-F	3X2.5	14	0.80	1.02	7.25±0.2	8.21
PV07AC-F	3X4	12	0.80	1.16	9.65±0.2	5.09
PV07AC-F	3X6	10	0.80	1.32	13.75±0.5	3.39
PV07AC-F	3X10	8	0.80	1.60	22.40±0.5	1.95
PV07AC-F	3X16	6	0.80	1.99	35.80±0.5	1.24

# PV GROUNDING CABLE

## Cable design

Conductor: Tinned Copper Alloy (TCA)

Insulation: 125°C XLPO

Sheath: 125°C XLPO

Special technology: Electron Beam Radiation Cross-linking

## Electrical characteristics

Rated voltage U<sub>0</sub>/U: DC 1000V

Temperature range: -40°C up to +90°C

Max. temperature at conductor: 120°C

Min. bending radius: 4 x cable diameter

Tensile strength and elongation: EN 60811-1-2

Halogen free: 50525-1 Anne x B

Ozone resistance: EN 50396

UV resistance: EN50289-4-17

Cold impact test: EN60068-2-78



## Application

Type: AZ2-K

Conductor cross section: 1X4,0mm<sup>2</sup> 6,0mm<sup>2</sup>, 1X10mm<sup>2</sup> 1X16mm<sup>2</sup>

Rated Voltage :1000V DC

Characteristic: Flame retardant, low smoke, halogen-free, UV resistant.

PV Ground cable is used in photovoltaic power generation system, which is used for photovoltaic equipment grounding. Length and model of PV ground cable can be customized.

Product Selection Table

Model	Conductor cross section	Conductor	Strand design Number	Outer	Conductor resistance	Sheath Color
	mm <sup>2</sup>					
AZ2-K	1X4.0	TCA	56/0.285	4.9±0.1mm	8.21	Yellow-Green
AZ2-K	1X6.0	TCA	84/0.285	5.1±0.1mm	5.09	Yellow-Green
AZ2-K	1X10	TCA	77/0.4	6.1±0.1mm	3.39	Yellow-Green
AZ2-K	1X16	TCA	126/0.4	7.3±0.1mm	1.95	Yellow-Green

# SOLAR PV CONNECTOR



**LMZ-SCDA**

**LMZ-SCDB**

**Application:**

This series of connectors are specially designed for solar modules and photovoltaic power generation systems.

**Product Selection Table**

Pass number	Description	Units
LMZ-SCDA	LIMAZ Solar Connector OD. 4.5-7.5mm, 1500V	Sets
LMZ-SCDB	LIMAZ Solar Connector OD. 5-7.5mm, 1500V	Sets

# PV INSTALLATION AND TESTING TOOLS



**LMZ-TSS01**



**LMZ-TSS02**

## Application:

This series of connectors are specially designed for solar modules and photovoltaic power generation systems.

### Product Selection Table

Pass number	Description	Units
LMZ-TSS01	LIMAZ Installation Kits V1	Sets
LMZ-TSS02	LIMAZ Installation Kits V2	Sets

# SOLAR PV BRANCH CONNECTOR



## Application:

This series of PV branch connector suitable for small PV On-Grid and Off-Grid PV power generation systems.

All connectors are compatible with MC4 connector.

Product Selection Table

Model	Rated Volatage	Rated Current	Standard	Protection Degree
2T1	1000V	30A	IEC62852 / EN62852	IP65/IP68
3T1	1000V	40A	IEC62852 / EN62852	IP65/IP68
2T1-L	1000V	30A	IEC62852 / EN62852	IP65/IP68
4T1-L	1000V	40A	IEC62852 / EN62852	IP65/IP68

# CU-AL TRANSITION CONNECTOR

## Application:

Model: SSPV-001

TUV and CE certificate.

Must be installed with tools (SST-001).

Only applicable to aluminum alloy photovoltaic cables.

It can be used with the MC4 connector of copper conductor that has passed the matching test.

## Main technical parameters

Model: SSPV-001

Part No.: SSPV-001-AL6

Rated Voltage: 1500V DC

Rated Current: 30A

Cable Type: SSPV-001-AL6 for 6mm<sup>2</sup> aluminum alloy cable

Safety Class: Class II

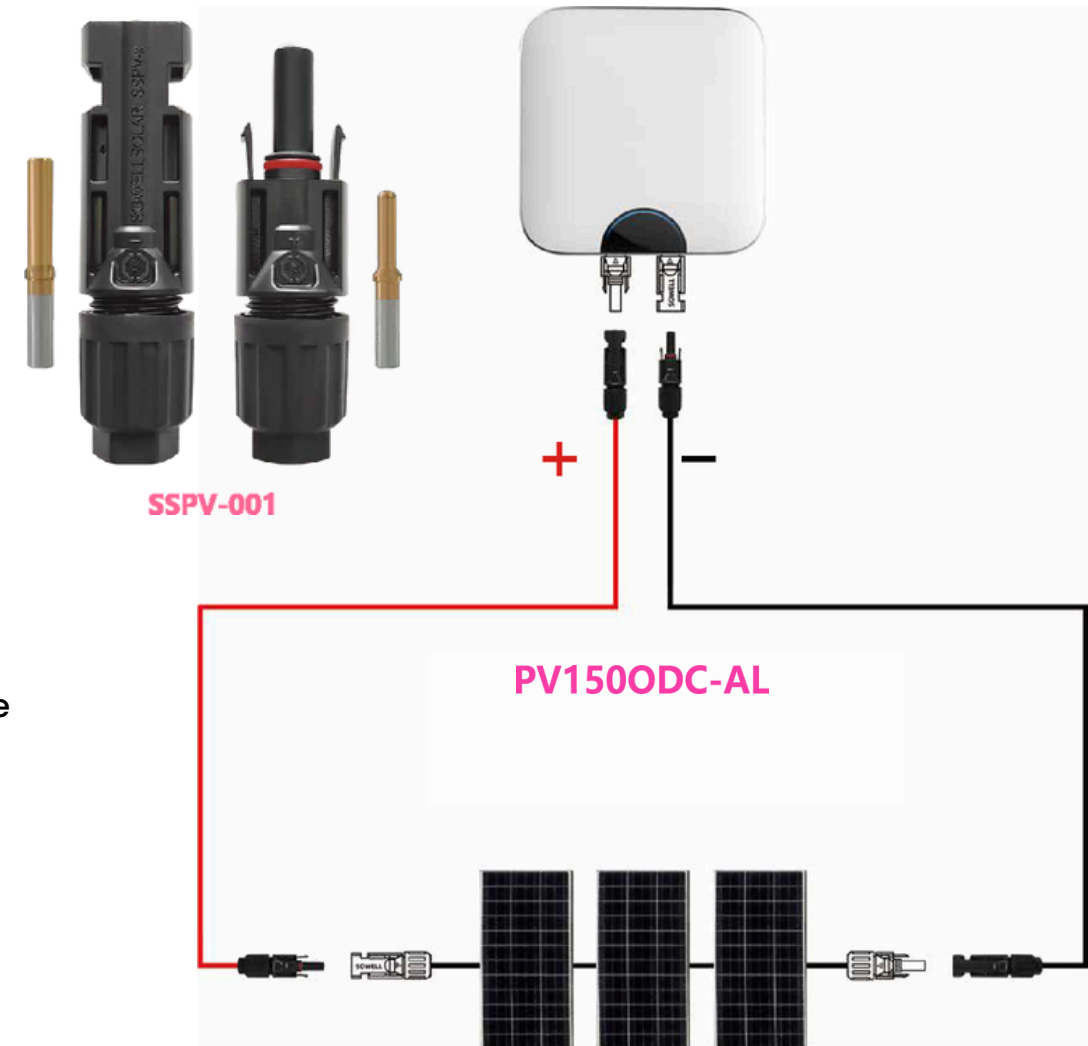
Degree of protection: IP67

Ambient temperature range: -40°C ~ 85°C

Contact resistance: < 0.05mΩ

Flammability Class: V-0/5VA

Installation Tool: SST-001 (Crimping)





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