

▶ ONE-STOP SOLUTION FOR SOLAR CABLE WIRING SYSTEMS



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# LEADER

POWERED BY NATURE CONNECTED FOR EXCELLENCE

## PRODUCTS CATALOGUE

LEADER CABLE



Q LEADER CABLE



Factory Reception



Sample Show Room

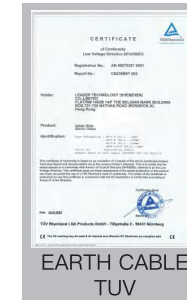
Leader Group was established in 2008 and specializes in the R&D and production of solar cables, solar connectors, solar junction boxes, cable wiring harnesses, power cables, and other products of photovoltaic protection accessories.

We have two production bases in Guangdong and Jiangsu, with more than 300 employees. The turnover in 2023 has reached 240 million US dollars. Top 5 manufacturers of solar cables in China. Product sales network covers the world and exports to 80 countries and regions in the Americas, Europe, the MiddleEast, Southeast Asia, Africa, Oceania, etc.; We have formed strategic partnerships with many world-class international photovoltaic EPC companies. Trusted partners of numerous Fortune 500 companies. By 2023 our products have successfully connected over 40 GW of photovoltaic output in 80 countries and regions worldwide.

Leader Group will continue creating a reliable, high-quality, low-cost photovoltaic connection system, contribute to the construction of global clean energy, and connect the future.



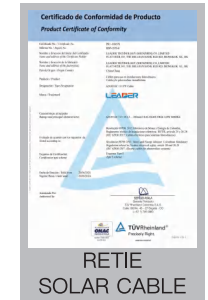
TUV EN 50618 CABLE



EARTH CABLE TUV



UL4703



RETIE SOLAR CABLE



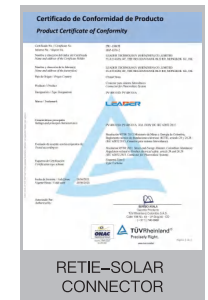
CPR IEC62930



CE



CONNECTOR ROHS CERTIFICATE



RETIE-SOLAR CONNECTOR



CONNECTOR TUV CERTIFICATE



BRANCH CONNECTOR TUV CERTIFICATE



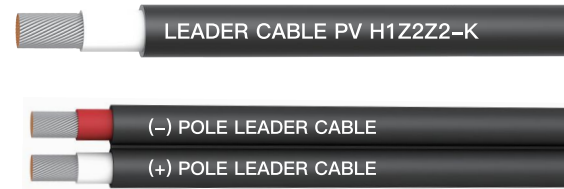
LVD DIRECTIVE CABLE



EMC DIRECTIVE CABLE

## 62930 IEC 131/H1Z2Z2-K Solar Cable

- Higher UV-stability
- Suitable for direct burial
- Water resistance
- Flammability class Cca acc.CPR
- Higher mechanical stability
- Higher insulation resistance



## UL 4703 PV Cable

- UV resistant
- Rated for direct burial
- High flame retardant VW-1
- Low smoke halogen free
- Higher insulation resistance



### Characteristics

**Conductor:** Bare or tinned copper, Aluminum(Optional)  
**Inner Layer:** XLPO, Black or White  
**Out Layer:** XLPO, Black, red or other colors  
**Testing Standard:**  
 Test under fire conditions: UL1581 VW-1  
 Sunlight resistance: UL2556  
 Cold bend test: UL854  
**UL File No.:** E518364

**Temperature Rating:** -40°C~+90°C  
**Nominal Voltage:** 1000/2000V  
**Voltage Test On Completed Cable:**  
 U=1000V or 2000V  
 18~10AWG, 6KV/min  
 8~2AWG, 7.5KV/min  
 1~4/0AWG, 9KV/min

### Characteristics

**Conductor:** Tinned stranded copper  
**Insulation:** XLPO, Optional color  
**Jacket:** XLPO, Optional color  
**Voltage Rating:** DC1500V  
**Reference Standard:**  
 EN 50618 & IEC 62930

**Temperature Rating:**  
 Rated: -40°C to +90°C  
 Max. conductor temp: +120°C  
 Short circuit: +250°C  
**Testing Standard:**  
 Smoke density test: Transmittance ≥ 60% EN 50618  
 Cod bending test: -40°C ± 2°C no crack EN 60811-504

Cross Section (mm <sup>2</sup> )	Conductor Construction (No./mm)	Strand Dia (mm)	Single Core Cable O.D. (mm)	Twin Core Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
1.5	30/0.25	2.02	5.00	5.00*10.40	13.7
2.5	49/0.25	2.02	5.40	5.40*11.00	8.21
4.0	56/0.285	2.46	5.60	5.60*11.40	5.09
6.0	84/0.285	3.02	6.30	6.30*12.80	3.39
10	146/0.285	4.00	7.80	7.80*15.80	1.95
16	228/0.285	5.00	9.30	9.30*18.80	1.24
25	361/0.285	6.50	11.00	11.00*22.30	0.795
35	266/0.40	8.00	12.50	12.50*25.30	0.565

AWG	Conductor Construction (No./mm)	Strand Dia (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km, 20°C)
14	41/0.254	2.05	5.90	8.620
12	65/0.254	2.45	6.30	5.640
10	105/0.254	3.00	7.10	3.546
8	168/0.254	4.10	8.40	2.230
6	266/0.254	5.20	10.60	1.403
4	420/0.254	6.50	12.00	0.882

## TÜV 2 PfG 2962 PV1500–SWR Solar Floating

- Higher UV-stability
- Salt mist resistant
- Higher water resistance
- Higher insulation resistance
- TÜV 2PfG 2962 floating PV certification



### Characteristics

**Conductor:**Tinned stranded copper  
**Insulation:**XLPO,Optional color  
**Jacket:**XLPO,Optional color

**Rated Voltage:**1500VDC  
**Ambient Temperature:**-40°C to +90°C

Cross Section (mm <sup>2</sup> )	Insulation Thickness (mm <sup>2</sup> )	Jacket Thickness (mm)	Cable O.D. Upper (mm)	Conductor Resistance Max(Ω/km,20°C)
2.5	0.8	0.8	5.5	8.21
4.0	0.8	0.8	6.4	5.09
6.0	0.8	0.8	6.8	3.39
10	0.8	0.8	8.0	1.95
16	0.9	0.9	9.6	1.24

## TÜV 2 PfG 2642 Aluminum Alloy Solar Cable

- Higher UV-stability
- Low smoke halogen free
- Higher mechanical stability



### Characteristics

**Conductor Material:**Stranded aluminum alloy, and in accordance with IEC 60228,class5  
**Insulation Material:**XLPO  
**Outer Sheath Material:**XLPO  
**Rated voltage:**U=1500VDC

**Test Voltage:**6.5KVAC/5min  
**Ambient Temperature:**-40°C to +90°C  
**Max.Short Circuit Temp.:**250°C/5s

Cross Section (mm <sup>2</sup> )	Insulation Thickness (mm)	Insulation O.D. (mm)	Jacket Thickness (mm)	Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
6	0.70	4.70	0.80	6.30	5.050
10	0.80	5.80	0.80	7.40	3.080
16	0.90	6.80	0.90	8.60	1.910
25	1.00	8.20	1.00	10.2	1.200
35	1.10	9.40	1.10	11.6	0.868
50	1.20	10.9	1.20	13.3	0.641
70	1.20	12.6	1.20	15.0	0.443
95	1.30	14.3	1.30	16.9	0.320
120	1.30	15.8	1.30	18.4	0.253
150	1.40	17.5	1.40	20.3	0.206
185	1.60	19.4	1.60	22.6	0.164
240	1.70	21.9	1.70	25.3	0.125

## H07Z-K Earth Cable



Higher UV-stability



Low smoke halogen free



Higher mechanical stability



### Characteristics

**Conductor:** Stranded, tinned or bare copper conductor 1.5~120mm<sup>2</sup>

**Insulation:** XLPO, Passed RoHS

**Rated Temperature:** 90°C

**Rated Voltage:** 450/750V

**Standard:** EN 50525-3-41

Cross Section (mm <sup>2</sup> )	Construction (No./mm)	Strand Dia	Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
4	56/0.285	2.45	4.30	5.09
6	84/0.285	3.02	4.80	3.39
10	146/0.285	4.20	6.60	1.95
16	228/0.285	5.00	7.80	1.24
25	182/0.40	6.50	9.50	0.795
35	266/0.40	8.00	11.0	0.565

## ESP15Z3Z3-K Energy Storage Cable



Higher UV-stability



Suitable for direct burial



Higher mechanical stability



### Characteristics

**Conductor:** Tinned stranded copper

**Insulation:** XLPO, Optional color

**Jacket:** XLPO, Optional color

**Rated Temperature:** -40~125°C

**Rated Voltage :** 1500V DC

**Standard:** 2 PfG 2693/03.23

Cross Section (mm <sup>2</sup> )	Construction (No./mm)	Strand Dia	Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
10	74/0.40	3.97	8.20	1.950
16	120/0.40	5.20	10.20	1.240
25	182/0.40	6.50	12.00	0.795
35	252/0.40	7.80	13.20	0.565
50	373/0.40	9.00	15.50	0.393
70	340/0.50	11.20	17.50	0.277



## 62930 IEC Anti-Mouse Ants Solar Cable

- Higher UV-stability
- Higher mechanical stability
- Higher insulation resistance
- Anti-rat and anti-termite.



### Characteristics

**Conductor:**Tinned stranded copper  
**Insulation:**XLPO,Optional color  
**Jacket:**XLPO,Optional color  
**Voltage Rating:**DC1500V  
**Reference Standard:**  
 EN 50618 & IEC 62930

**Temperature Rating:**  
 Rated:-40°C to +90°C  
 Max.conductor temp:+120°C  
 Short circuit:+250°C  
**Testing Standard:**  
 Smoke density test:Transmittance≥60% EN 50618  
 Cod bending test:-40°C±2°C no crack EN 60811-504

Cross Section (mm <sup>2</sup> )	Conductor Construction (No./mm)	Insulation O.D. (mm)	Single core Cable O.D. (mm)	Twin core Cable O.D. (mm)	Conductor Resistance Max(Ω/km,20°C)
1.5	30/0.25	3.05	5.00	5.00*10.20	13.7
2.5	34/0.285	3.50	5.20	5.20*10.60	8.21
4.0	56/0.285	3.85	5.60	5.60*11.40	5.09
6.0	84/0.285	4.45	6.30	6.30*12.80	3.39
10	146/0.285	5.50	7.80	7.80*15.90	1.95
16	228/0.285	6.90	9.30	9.30*18.90	1.24
25	361/0.285	8.70	11.00	11.00*22.30	0.795
35	266/0.40	10.0	12.50	12.50*25.30	0.565

## Armored Directly Buried Solar Cable

- Higher UV-stability
- Suitable for direct burial
- Higher mechanical stability
- Anti-rat and anti-termite.



### Characteristics

**Conductor:**Tinned stranded copper  
**Rated Voltage:**AC 600/1000V DC 1500V  
**Rated Temperature:**-40°C to +90°C  
**Reference Standard:**  
 IEC 62930:2017

**Bending radius:**12D≥  
**Max Conduct temperature:**120°C  
**Fire test:**IEC 60332-1  
**Cold bending test:**EN 60811-1-4

Cross Section (mm <sup>2</sup> )	Construction (No./mm±0.01)	DIA.(mm)	Steel strip thickness (mm)	Insulation Thickness(mm)	Jacket Thickness(mm)	Cable OD. (mm±0.2)
2×4	56	2.45	0.2	0.8	1.4	14
2×6	84	3.05	0.2	0.8	1.5	16
2×10	146	4.40	0.2	0.8	1.6	19

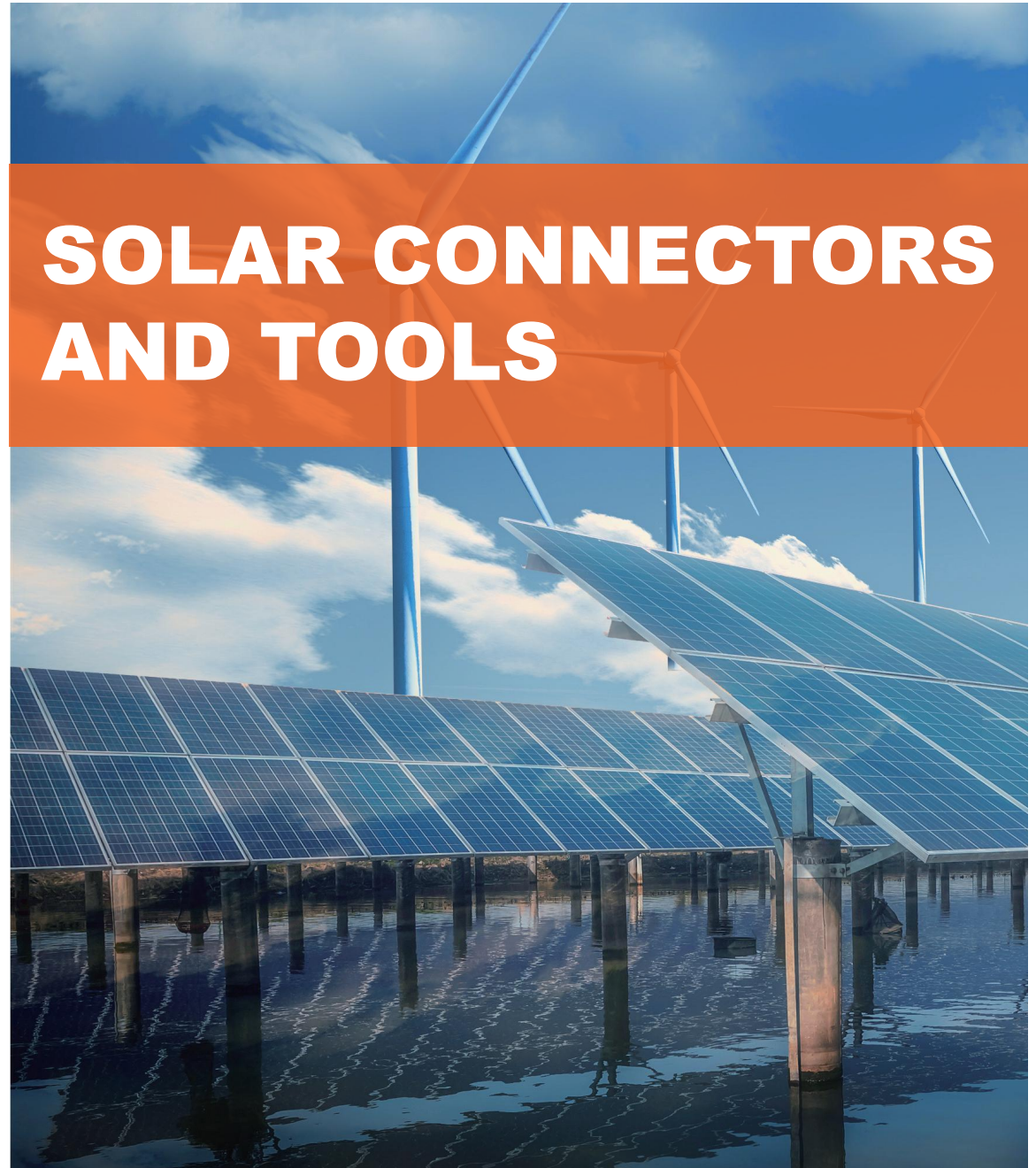
# PACKING

## Export packing schemes



CONTAINER SIZE:20GP(5.89M\*2.32M\*2.31M)  
 CABLE SPECIFICATION:1\*4MM<sup>2</sup>  
 PACKING MODE:WOODEN TRAY+ WOODEN DRUM 1000M/ROLL  
 LOADING CAPACITY:300000M

CONTAINER SIZE:20GP(5.89M\*2.32M\*2.31M)  
 CABLE SPECIFICATION:1\*6MM<sup>2</sup>  
 PACKING MODE:WOODEN TRAY+ WOODEN DRUM 1000M/ROLL  
 LOADING CAPACITY:280000M



# SOLAR CONNECTORS AND TOOLS



PV-BN101A

PV-BN101A

SY-CP4C



IP68



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1500V

Insulation material:PPO/PC

Rated Current-2.5mm<sup>2</sup>:30A (14AWG)

Rated Current-4mm<sup>2</sup>:35A (12AWG)

Rated Current-6mm<sup>2</sup>:40A (10AWG)

Rated Current-10mm<sup>2</sup>:50A (8AWG)

Test voltage:6KV(50Hz,1Min)

Fire Resistance:UL94-V0

Contact resistance:less than 0.35 mΩ

Degree of protection:IP68

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
59cm × 39cm × 20cm	Male Housing	500 pcs	15kg
	Female Housing	500 pcs	
	Male terminal	500 pcs	
	Female terminal	500 pcs	
Remark: 500 pairs in one carton package			

## T Branch Connector



SY-BB21-AB

SY-BB31-AB

SY-BB41-AB



IP68



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1500V

Insulation material:PPO/PC

Rated Current-2.5mm<sup>2</sup>:30A (14AWG)

Rated Current-4mm<sup>2</sup>:35A (12AWG)

Rated Current-6mm<sup>2</sup>:40A (10AWG)

Rated Current-10mm<sup>2</sup>:50A (8AWG)

Test voltage:6KV(50Hz,1Min)

Fire Resistance:UL94-V0

Contact resistance:less than 0.35 mΩ

Degree of protection:IP68

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
48cm × 37cm × 22cm	Solar Male Connector	200 pcs	21.7kg
	Solar Female Connector	200 pcs	
Remark: 200 pairs in one carton package			



## Y Branch Connector



SY-BY21-AB



IP67



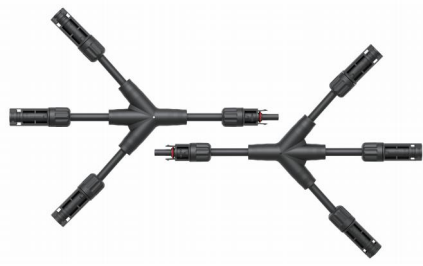
UV Resistance



UL94-V0



-40°C~85°C



SY-BY31-AB



SY-BY41-AB

Rated Voltage:1500V

Insulation material:PPO/PC

Rated Current-2.5mm<sup>2</sup>:30A (14AWG)

Rated Current-4mm<sup>2</sup>:35A (12AWG)

Rated Current-6mm<sup>2</sup>:40A (10AWG)

Fire Resistance:UL94-V0

Test voltage:6KV(50Hz,1Min)

Contact material:copper, tin-plated

Contact resistance:less than 0.35 mΩ

Degree of protection:IP67

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
45cm × 35cm × 24cm	Solar male connector	100 pcs	28kg
	Solar female connector	100 pcs	
Remark: 100 pairs in one carton package			

## PV Fuse & Diode Connector



LD6-Mini-1100



LD6-MAX-1500



LD-MD55A2000V-H



IP68



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1000~2000V

Insulation material:PPO/PC

Rated Current-2.5mm<sup>2</sup>:30A (14AWG)

Rated Current-4mm<sup>2</sup>:35A (12AWG)

Rated Current-6mm<sup>2</sup>:40A (10AWG)

Fire Resistance:UL94-V0

Test voltage:6KV(50Hz,1Min)

Contact material:copper, tin-plated

Contact resistance:less than 0.35 mΩ

Degree of protection:IP68

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
45cm × 35cm × 25cm	Solar Diode Connector	500 pcs	31kg
	Solar Fuse Connector	500 pcs	
Remark: 500 pairs in one carton package			

# LEADER

## Junction Box



PV-BN223



PV-BN221



PV-BN221B



IP67



UV Resistance



UL94-V0



-40°C~85°C



Rated Voltage:1000V

Insulation material:PPO/PC

Rated Current:3~15A

Busbar connection:Welding

Degree of protection:Pouring sealant

Fire Resistance:UL94-V0

Rated Connecting Capacity:2.5~4mm<sup>2</sup>

Safety class:Class II

Glue quantity:7g

Degree of protection:IP67

Ambient temperature:-40°C up to +85°C

Certification:IEC62852 /UL6703

## PV TOOLS



Crimping Pliers  
SY-CT002



Wire Stripper Plier  
SY-ST001



Cutting Tool  
SY-CT003



Solar Connector Spanner  
SY-THB510



Solar Tool Kit Box  
SY-TB003



Solar Crimping Tool Kit  
SY-TB006

Please scan the QR code below to view the usage instructions



To find out more information about our products and services, Contact us now, our team is ready to support you.



Wechat



WhatsApp



Facebook



Catalog

Carton Dimension (cm)	Pack list	QTY	Gross Weight (kg)
48cm × 37cm × 22cm	Solar Junction Box	25set	31kg
Remark: 25 set in one carton package			