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FOCUS ON ENTERPRISE
WECHAT



- ENVIRONMENTAL FRIENDLY •
- LOW CARBON •
- ENERGY •



Zhejiang Pntech Technology Co.,Ltd.



CONTENT HERE

The Company insists on the operation concept of “hard work and responsibility” for interior control and the attitude of “professional and efficient, sincere and down-to-earth, cooperation and double-win” for customer service.

COMPANY PROFILE



Zhejiang Pntech Technology Co.,Ltd.

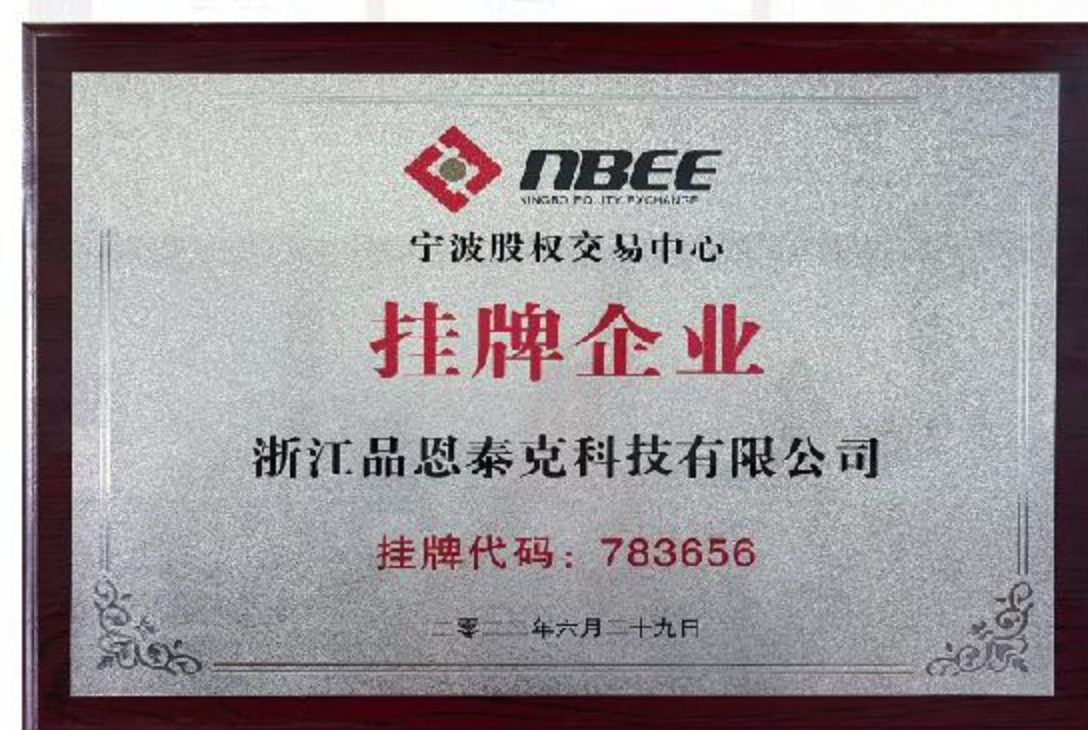
PNTECH is a production enterprise on solar PV system components founded in 2011. The Company implements quality management comprehensively as required by GB/T19001-2016/ISO9001:2015 Quality Management System. Its PV cables are produced according to standards 2PFG 1169/08.07, EN50618:2014, IEC 62930:2017, PPP 11029A:2019 and NB/T42073-2016 and PV connectors are produced according to standard EN62852:2015/IEC62852(ed.1) and have acquired certificate of TÜV IEC and CQC.

Meanwhile, the Company has been honored the “star of entrepreneurship” and the enterprise in the cultivation list of “professional, fine, special, and innovative” of Zhejiang Province, and has been successfully listed in Ningbo Equity Exchange Center (code: 783656). Products of the Company are sold in tens of countries and regions including America, Europe, Southeast Asia, Middle East, Australia and so on.



HONOR OF PNTECH

QUALIFICATION CERTIFICATIONS



Step by step, bit by bit accumulation, so that PNTECH grow into a well-known brand in China's solar industry. All these honors are the recognition of our efforts and the praise of our market and customers. In the future development, we will continue to adhere to our excellent business philosophy, for the majority of customers to provide better and better products and services.

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DC SOLAR PV CABLE



25 YEARS LIFE SPAN / 5 YEARS WARRANTY

PV cable is mainly used for solar PV assemblies and the installation of PV power stations. We use Halogen Free Cross-Linked Polyolefin (XLPO) for insulation and jacket, so the cable can accept the solar radiation and able to be used in high/low temperatures.

TÜV SÜD EN50618: 2014 H1Z2Z2-K DC 1.5KV **mm² Zhejiang Pntech

TÜV 2 PfG 1169 PV1-F AC 0.6/1.0KV DC 1.0KV **mm² Zhejiang Pntech

CQC PV-(WD)YJYJ DC1.5KV (NB/T 42073) **mm² Zhejiang Pntech

62930 IEC 131 DC1.5KV **mm² Zhejiang Pntech

PPP 11029A PV 1500DC-AL **mm² Zhejiang Pntech

ZC-BVR **mm² 450/750 Zhejiang Pntech



Zhejiang Pntech Technology Co.,Ltd.

TÜV PV1-F

Approvals TÜV Rheinland 2PFG 1169 PV1-F $1 \times 1.5\text{mm}^2 \sim 35\text{mm}^2$



TECHNICAL DATA

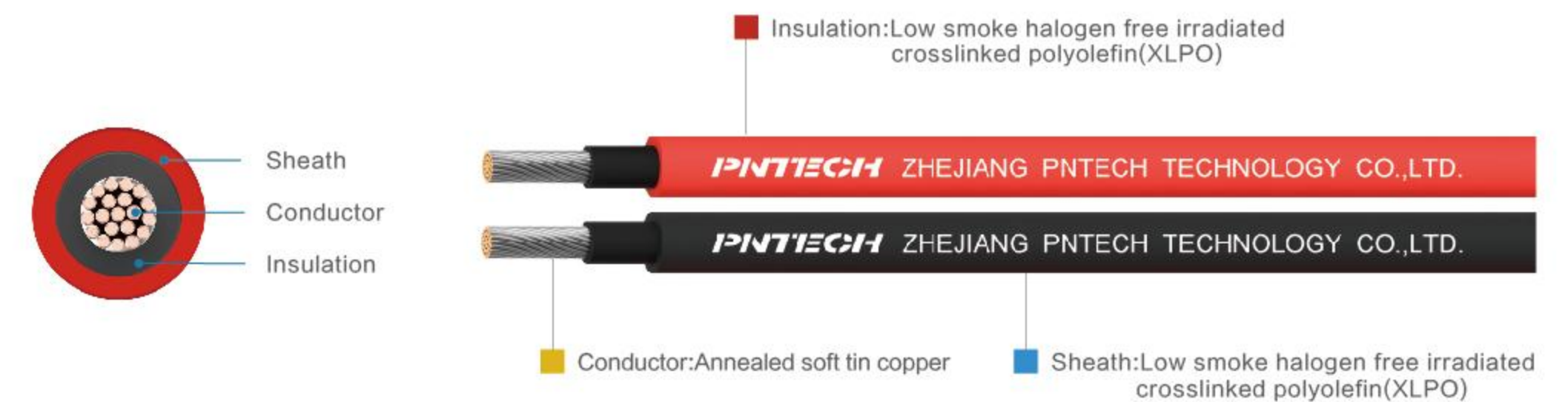
- Rated voltage: AC: $U_0/U=0.6/1.0\text{KV}$ DC: 1.0KV
- Voltage test on completed cable: AC: 6.5KV DC: 15KV , 5min
- Ambient temperature: $-40^\circ\text{C} \sim +90^\circ\text{C}$
- Max. Temperature at conductor: $+120^\circ\text{C}$
- The expected period of use is 25 years (Ambient temperature: -40°C up to $+90^\circ\text{C}$)
- The permitted short-circuit-temperature refer to a period of 5s is $+200^\circ\text{C}$
- Bending radius: $\geq 4 \times \phi$ ($D < 8\text{mm}$) $\geq 6 \times \phi$ ($D \geq 8\text{mm}$)
- ACID and Alkali resistance: EN60811-2-1
- Cold bending test: EN60811-1-4
- Weathering/UV-resistance: HD605/A1
- O-zone resistance at complete cable: EN50396
- Flame test: IEC60332-1
- Smoke density: IEC61034, EN50268-2
- Content of halogen acid gas: IEC670754-1 EN50267-2-1

THE STRUCTURE OF CABLE

Cross section (mm^2)	Conductor construction ($\phi \text{ n/mm} \pm 0.015$)	Conductor stranded ($\phi \text{ mm} \pm 0.02$)	Insulation medium thickness (mm)	Sheath medium thickness (mm)	Cable OD ($\phi \text{ mm} \pm 0.2$)	Conductor Dc Resistance (Ω/Km)	Current carrying capacity AT 60°C (A)
1.5	22x0.29	1.58	0.7	0.8	4.6	13.5	25
2.5	36x0.29	1.98	0.7	0.8	5.3	8.21	36
4	56x0.29	2.35	0.75	0.8	5.6	5.09	44
6	84x0.29	3.06	0.8	0.8	6.3	3.39	60
10	80x0.4	4.60	0.8	0.9	7.6	1.95	82
16	120x0.4	5.60	1.0	1.0	9.5	1.24	122
25	196x0.4	6.95	1.0	1.0	11	0.795	160
35	276x0.4	8.30	1.2	1.2	12	0.565	200

EN H1Z2Z2-K

Approvals TÜV SÜD EN50618:2014 H1Z2Z2-K $1 \times 1.5\text{mm}^2 \sim 35\text{mm}^2$



TECHNICAL DATA

- Rated voltage: AC: $1.0/1.0\text{KV}$ DC: 1.5KV
- Voltage test on completed cable: AC: 6.5KV DC: 15KV , 5min
- Ambient temperature: $-40^\circ\text{C} \sim +90^\circ\text{C}$
- Thermal endurance properties: 120°C , 20000h, elongation at break $\geq 50\%$
- The permitted short-circuit-temperature is $+250^\circ\text{C}$ referring to a period of 5s
- Pressure Test At High Temperature: EN60811-3-1
- Damp Heat Test: EN60068-2-78
- ACID and Alkali resistance: EN60811-2-1
- O-zone resistance at complete cable: EN50396
- Thermal endurance test: EN60216-2
- Cold bending test: EN60811-1-4
- Sunlight resistance: EN50289-4-17
- Test of vertical flame propagation at complete cable: EN60332-1-2

THE STRUCTURE OF CABLE

Cross section (mm^2)	Conductor construction ($\phi \text{ n/mm} \pm 0.015$)	Conductor stranded ($\phi \text{ mm} \pm 0.02$)	Insulation medium thickness (mm)	Sheath medium thickness (mm)	Cable OD ($\phi \text{ mm} \pm 0.2$)	Conductor Dc Resistance (Ω/Km)	Current carrying capacity AT 60°C (A)
1.5	22x0.29	1.58	0.7	0.8	4.8	13.5	25
2.5	36x0.29	1.98	0.7	0.8	5.5	8.21	36
4	56x0.29	2.35	0.75	0.8	5.8	5.09	44
6	84x0.29	3.06	0.8	0.8	6.6	3.39	60
10	80x0.4	4.60	0.8	0.9	8	1.95	82
16	120x0.4	5.60	1.0	1.0	10	1.24	122
25	196x0.4	6.95	1.0	1.0	12	0.795	160
35	276x0.4	8.30	1.2	1.2	13	0.565	200

62930 IEC131

Approvals TÜV Rheinland 62930 IEC 131 $1 \times 1.5\text{mm}^2 \sim 35\text{mm}^2$



TECHNICAL DATA

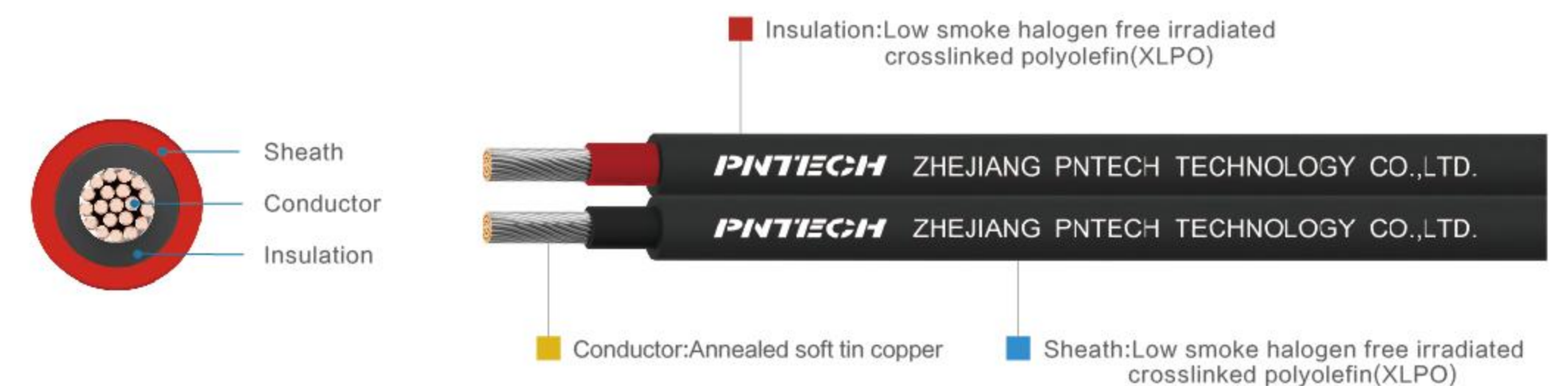
- Rated voltage: AC: $U_0/U=1.0/1.0\text{KV}$, DC: 1.5KV
- Voltage test on completed cable: AC: 6.5KV DC: 15KV, 5min
- Ambient temperature: $-40^\circ\text{C} \sim +90^\circ\text{C}$
- Max. Temperature at conductor: $+120^\circ\text{C}$
- The expected period of use is 25 years (Ambient temperature: -40°C Cup to $+90^\circ\text{C}$)
- The permitted short-circuit-temperature refer to a period of 5s is $+200^\circ\text{C}$
- Bending radius: $\geq 4 \times \phi$ ($D < 8\text{mm}$) $\geq 6 \times \phi$ ($D \geq 8\text{mm}$)
- Compatibility test: IEC60811-401:2012, 135 $\pm 2/168\text{h}$
- ACID and Alkali resistance: EN60811-2-1
- Cold bending test: IEC60811-506
- Damp heat test: IEC60068-2-78
- Sunlight resistance: IEC62930
- O-zone resistance test of finished cable: IEC60811-403
- Flame test: IEC60332-1-2
- Smoke density: IEC61034-2
- Assessment of halogens for all non-metallic material: IEC62821-1

THE STRUCTURE OF CABLE

Cross section (mm ²)	Conductor construction (n/mm ± 0.015)	Conductor stranded (mm ± 0.02)	Insulation medium thickness (mm)	Sheath medium thickness (mm)	Cable OD (mm ± 0.2)	Conductor Dc Resistance (Ω/Km)	Current carrying capacity AT 60° C(A)
1.5	22x0.29	1.58	0.7	0.8	4.8	13.5	25
2.5	36x0.29	1.98	0.7	0.8	5.5	8.21	36
4	56x0.29	2.35	0.75	0.8	6.2	5.09	44
6	84x0.29	3.06	0.8	0.8	7	3.39	60
10	80x0.4	4.60	0.8	0.9	8.5	1.95	82
16	120x0.4	5.60	1.0	1.0	10	1.24	122
25	196x0.4	6.95	1.0	1.0	12	0.795	160
35	276x0.4	8.30	1.2	1.2	13	0.565	200

62930 IEC131 Double parallel solar cable

Approvals TÜV Rheinland 62930 IEC 131 $2 \times 2.5\text{mm}^2 \sim 10\text{mm}^2$



TECHNICAL DATA

- Rated voltage: AC: $U_0/U=1.0/1.0\text{KV}$, DC: 1.5KV
- Voltage test on completed cable: AC: 6.5KV DC: 15KV, 5min
- Ambient temperature: $-40^\circ\text{C} \sim +90^\circ\text{C}$
- Max. Temperature at conductor: $+120^\circ\text{C}$
- The expected period of use is 25 years (Ambient temperature: -40°C Cup to $+90^\circ\text{C}$)
- The permitted short-circuit-temperature refer to a period of 5s is $+200^\circ\text{C}$
- Bending radius: $\geq 4 \times \phi$ ($D < 8\text{mm}$) $\geq 6 \times \phi$ ($D \geq 8\text{mm}$)
- Cold bending test: IEC60811-506
- Damp heat test: EN60068-2-78
- Sunlight resistance: IEC62930
- O-zone resistance test of finished cable: IEC60811-403
- Flame test: EN60332-1-2
- Smoke density: IEC61034-2
- Resistance against acid and alkaline solution: EN60811-2-1

THE STRUCTURE OF CABLE

Cross section (mm ²)	Conductor construction (n/mm ± 0.015)	Conductor stranded (mm ± 0.02)	Insulation medium thickness (mm)	Sheath medium thickness (mm)	Cable OD (mm ± 0.2)	Conductor Dc Resistance (Ω/Km)	Current carrying capacity AT 60° C(A)
2x2.5	36x0.29	1.98	0.7	0.8	5.2 $\times$ 10.8	8.21	36
2x4	56x0.29	2.35	0.7	0.8	5.6 $\times$ 11.5	5.09	44
2x6	84x0.29	3.06	0.7	0.8	6.5 $\times$ 13.5	3.39	60
2x10	80x0.4	4.6	0.7	0.8	7.6 $\times$ 15.5	1.95	82

UL 4703

Approvals UL4703 PV 16AWG~2AWG



TECHNICAL DATA

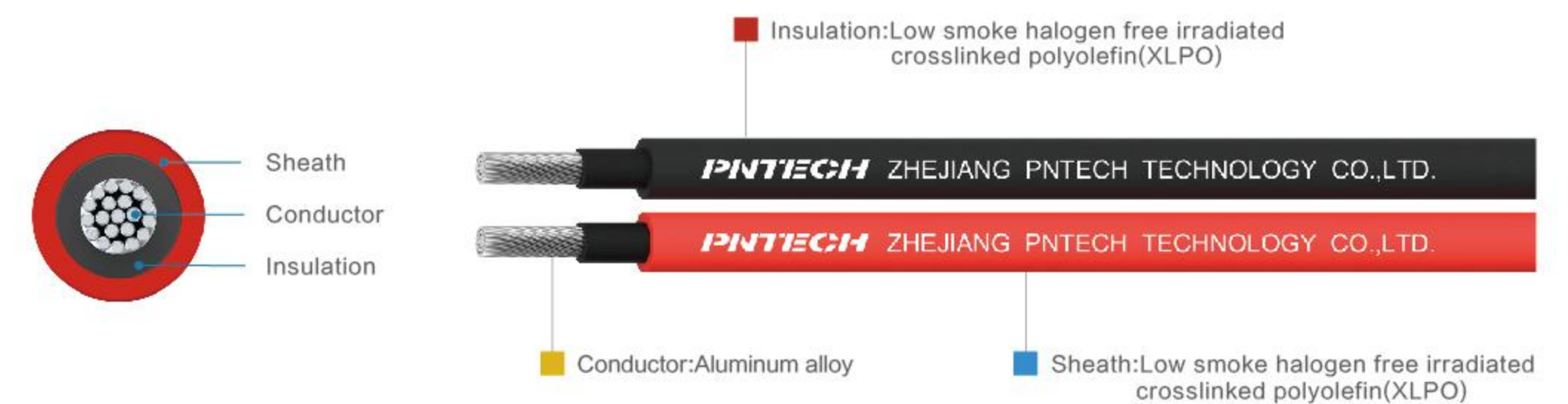
- Rated voltage:(U):U=1.0KV / 2.0KVAC
- Test voltage:(Uo):U=1.0KV, 2.0KV
18~10AWG,Uo=6.0KV, 50HZ, 1min
8~2 AWG,Uo=7.5KV, 50HZ, 1min
- Ambient temperature:-40℃~+90℃
- Flame test:UL1581 VW-1
- Relative permittivity:UL854
- Stability factor:UL854
- Sunlight resistance:UL2556
- Cold bending test:UL854

THE STRUCTURE OF CABLE

AWG	Nominal Area	Conductor construction (ϕ n/mm $\pm$ 0.02)	1000V and 2000V Cable OD (ϕ mm $\pm$ 0.02)	Conductor MAX. Resistance AT20℃ (Ω /km)
16	1.31	18 $\times$ 0.29	5	14.6
14	2.08	32 $\times$ 0.29	5.5	8.96
12	3.31	48 $\times$ 0.29	6.2	5.64
10	5.261	78 $\times$ 0.29	7.1	3.546
8	8.367	72 $\times$ 0.4	8.5	2.23
6	13.3	116 $\times$ 0.4	9.5	1.403
4	21.15	180 $\times$ 0.4	10	0.882
2	33.62	260 $\times$ 0.4	12	0.5548

PPP Photovoltaic Aluminum Alloy cable

Approvals PPP 11029A PV 1.5KVDC-AL 1 $\times$ 4mm²~10mm²



TECHNICAL DATA

- Rated voltage:DC:1.5KV AC:0.6/1.0KV
- Voltage test on completed cable:AC:6.5KV DC:15KV,5min
- Ambient temperature:-40℃~+90℃
- The expected period of use is 25years(Ambient temperature:-40℃ Cup to+90℃)
- High temperature resistance:EN60216-2
- Ozone resistance:EN50396
- ACID and Alkali resistance:EN60811-2-1
- Low temperature resistance:EN60811-1-4
- Weathering/Uv-resistance:EN50289-4-17
- Ozone resistance at complete cable:EN60754-1/EN60754-2
- Test under fire conditions:EN60332-1-2

THE STRUCTURE OF CABLE

Cross section (mm ²)	Conductor construction (ϕ n/mm $\pm$ 0.015)	Conductor stranded (ϕ mm $\pm$ 0.02)	Insulation mediun thickness (mm)	Sheath mediun thickness (mm)	Cable OD (ϕ mm $\pm$ 0.2)	Conductor Dc Resistance (Ω /Km)	Current carring capacity AT 60° C(A)
4	56 $\times$ 0.3	2.6	0.7	0.8	6.1	7.26	30
6	84 $\times$ 0.3	3.15	0.7	0.8	7.0	4.91	39
10	80 $\times$ 0.4	4.10	0.7	0.8	8.2	2.89	51

BVR Grounding wire

Approvals CE $1 \times 4\text{mm}^2 \sim 35\text{mm}^2$



TECHNICAL DATA

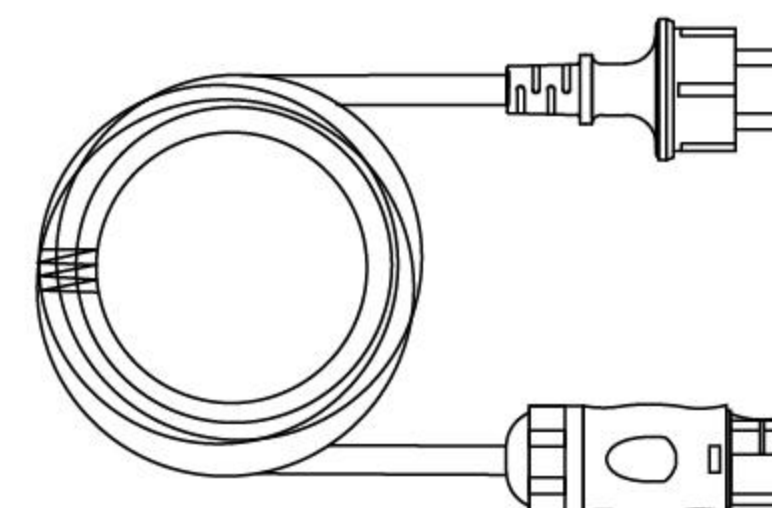
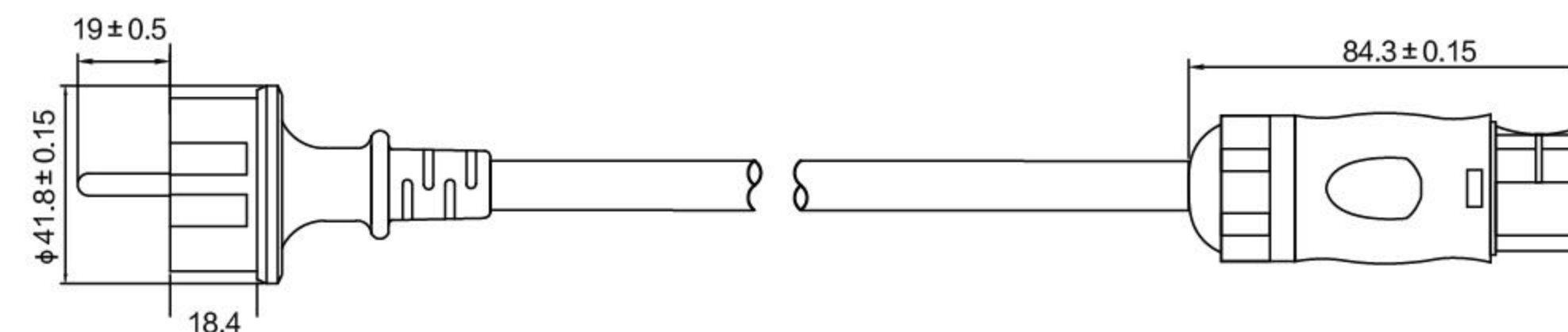
- Rated voltage (V) : U0/U450/750V
- Rated Temperature: $-0^{\circ}\text{C} \leq \text{Rated} \leq 70^{\circ}\text{C}$
- Allowable bending radius: $4D \leq 25 \leq 6D$
- Short circuit temperatur: $110^{\circ}\text{C}/5\text{s}$
- service life: 10 years

THE STRUCTURE OF CABLE

Cross section (mm ²)	Conductor construction (φ n/mm ± 0.02)	Conductor stranded (φ mm ± 0.02)	Sheath mediun thickness (mm)	Cable OD (φ mm ± 0.2)	Conductor Dc Resistance (20°C Ω/Km)
4	19x0.41	2.23	0.8	4.2	4.61
6	19x0.64	2.80	0.8	4.8	3.08
10	49x0.52	3.63	1.0	6.4	1.83
16	49x0.64	4.48	1.0	7.4	1.20
25	98x0.58	5.73	1.2	9.8	1.15
35	133x0.58	6.67	1.2	11.2	0.868

VDE

Approvals VDE $3 \times 1.0\text{mm}^2 \sim 3 \times 2.5\text{mm}^2$



Parameters

- Type: AC Wire Harness
- Rated Voltage: 1450V/750V
- Rated Current: 16A
- Contact Resistance: $\leq 0.5\text{m}\Omega$
- Ambient Temperature: $-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Contact Materials: Tin plated copper
- Insulation Material: TPU
- Cable specifications: $3 \times 1.0/1.5/2.5\text{mm}^2$
- Cable Length: Customized

THE STRUCTURE OF CABLE

Cross section (mm ²)	Conductor construction (φ n/mm ± 0.02)	Sheath mediun thickness (mm)	Cable OD (φ mm ± 0.2)
3x1.0	32x0.198	0.8	7.3
3x1.5	30x0.25	0.8	10.3
3x2.5	50x0.25	0.9	11.2

SOLAR PV CONNECTOR 1000V SERIES



New Standard Solar PV Connector IEC62852

- ⚡ Load Capability with big current and high voltage
- ⊖ Lower contact resistance
- 💧 Design of waterproof and dust proof
- 🛡️ Excellent performances of high-low temperature resistance, fireproof, anti-ultraviolet

**15 YEARS OF QUALITY
ADHERE TO THE SAME**

**MAKE PHOTOVOLTAIC
POWER STATIONS SAFER**



PNTTECH

Zhejiang Pntech Technology Co.,Ltd.

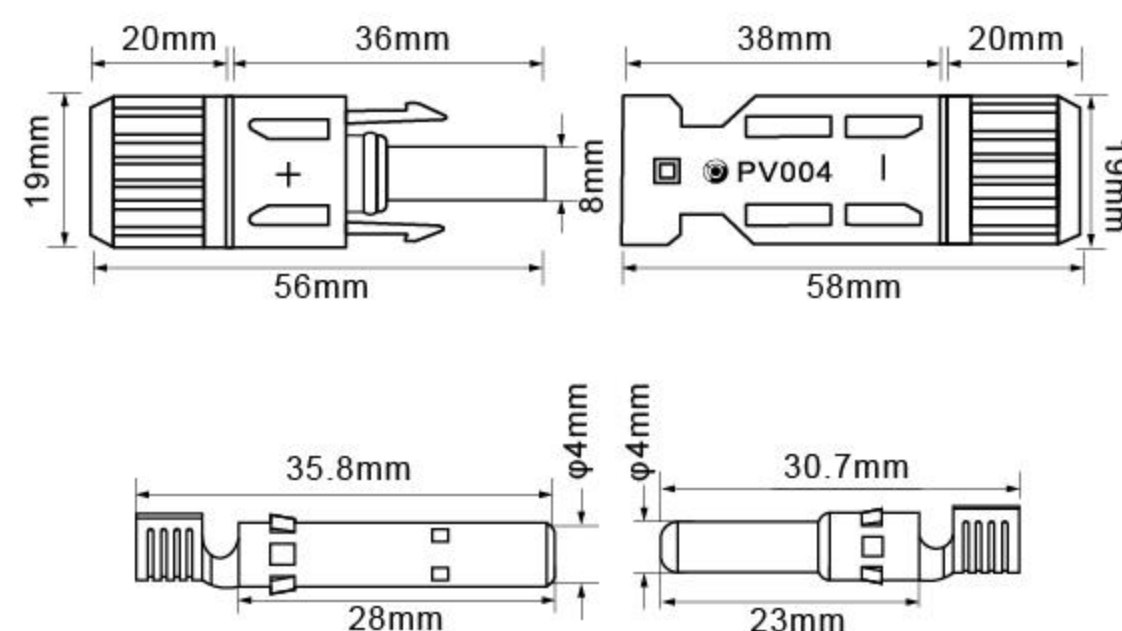
PV 004 *Solar PV Connector*

Standard IEC62852:2014



Parameters

- | | |
|----------------------------|-------------------|
| • Type | PV004 |
| • Rated Voltage | 1000V DC |
| • Contact Materials | Tin plated copper |
| • Rated Current | 30A |
| • Standard | IEC 62852:2014 |
| • Protection Degree | IP67 |
| • Contact Resistance | ≤0.3mΩ |
| • Ambient Temperature | -40℃~+85℃ |
| • Cable Cross Section Area | 2.5mm²,4mm²,6mm² |
| • Insulation Material | PC EXL9330 |
| • Flame Class | UL94 V-0 |

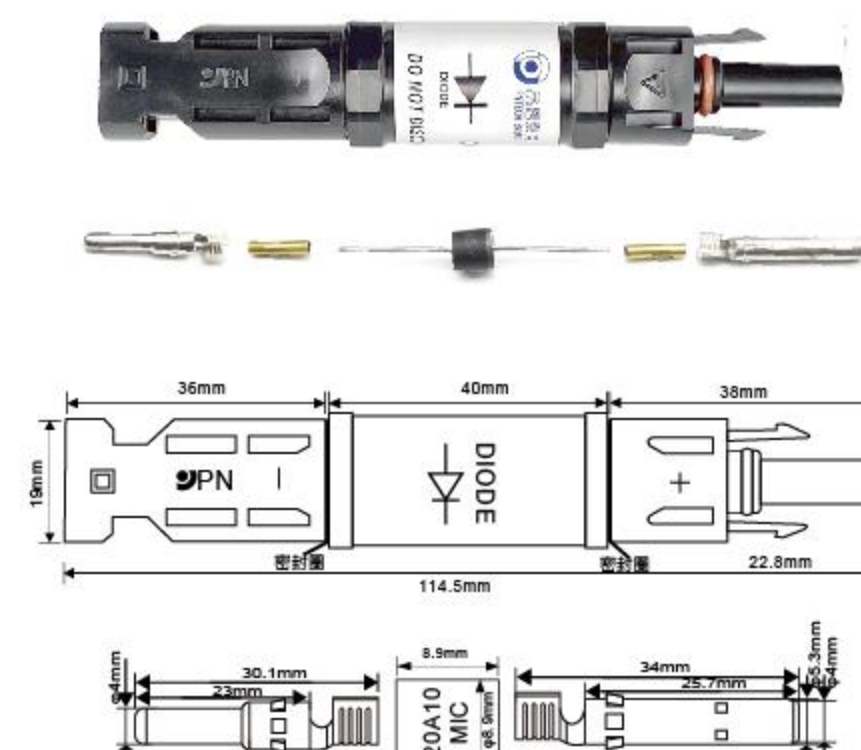


Feature

- The surface is acid-resistant and uv-resistant
- Good heat resistance and cold resistance
- Quality Assurance for 5 years
- TÜV certification
- Suitable for outdoor harsh environment
- Waterproof and dustproof design
- Flame retardant

Diode Connector PV004-D

Standard IEC62852:2014

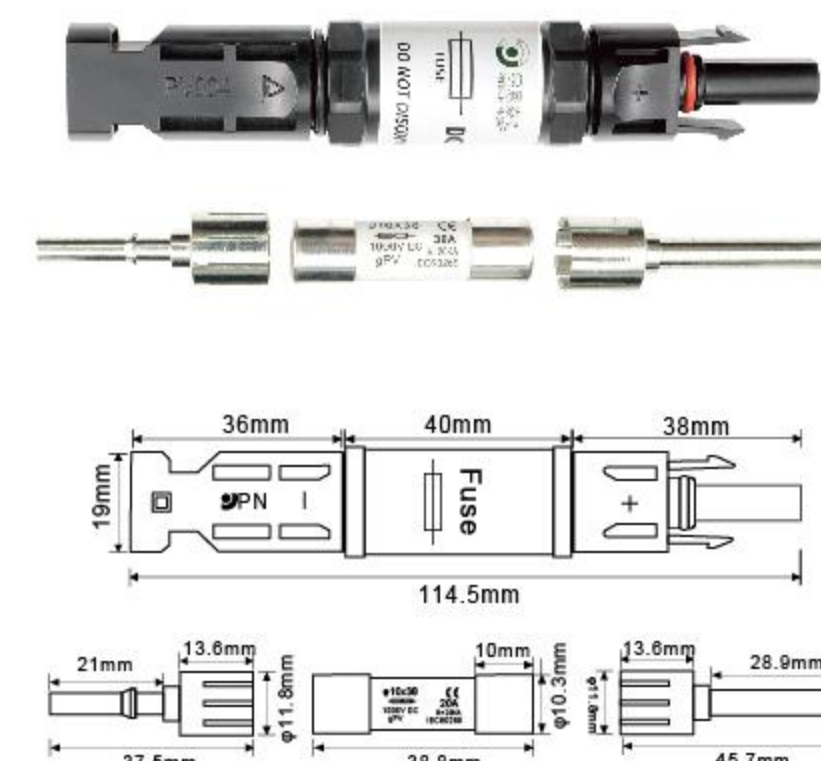


Parameters

- | | |
|-----------------------|-------------------|
| • Type | PV004-D |
| • Rated Voltage | 1000V DC |
| • Contact Materials | Tin plated copper |
| • Rated Current | 10A,15A,20A |
| • Standard | IEC 62852:2014 |
| • Protection Degree | IP65 |
| • Contact Resistance | $\leq 0.5m\Omega$ |
| • Ambient Temperature | -40℃~+85℃ |
| • Insulation Material | PPO |
| • Flame Class | UL94 V-0 |

Fuse Connector PV004-F

Standard IEC62852:2014

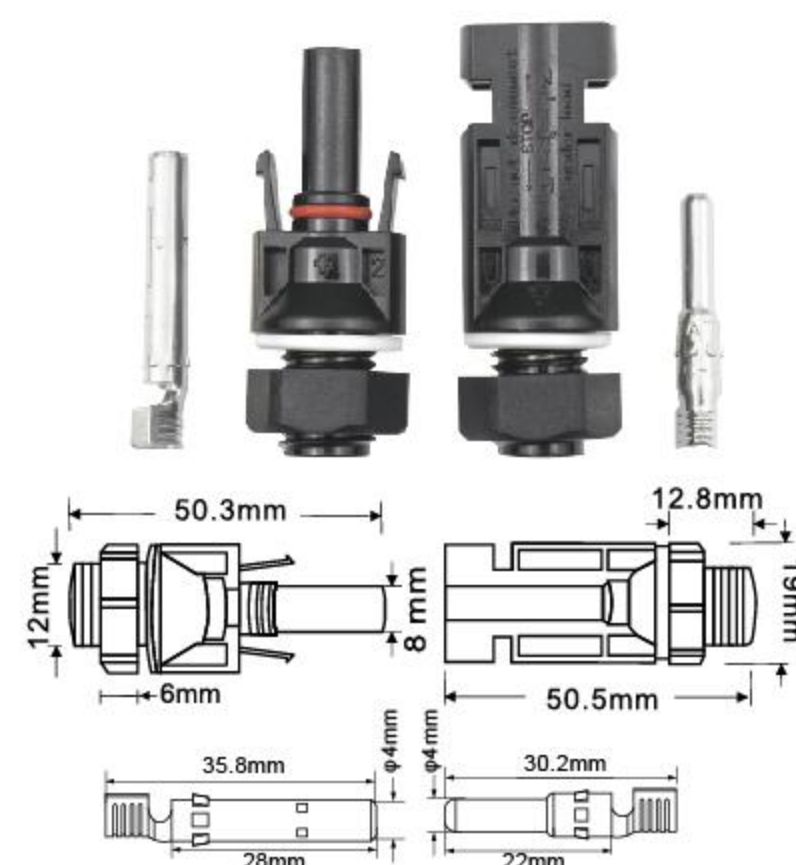


Parameters

- | | |
|-----------------------|-------------------|
| • Type | PV004-F |
| • Rated Voltage | 1000V DC |
| • Contact Materials | Tin plated copper |
| • Rated Current | 10A,15A,20A |
| • Standard | IEC 62852:2014 |
| • Protection Degree | IP65 |
| • Contact Resistance | ≤0.5mΩ |
| • Ambient Temperature | -40℃~+85℃ |
| • Insulation Material | PPO |
| • Flame Class | UL94 V-0 |

Plate End Connector PV004-P

Standard IEC62852:2014



Parameters

- Type PV004-P
- Rated Voltage 1000V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Thread Size 12mm
- Insulation Material PPO
- Flame Class UL94 V-0

2 to 1 T Branch Connector PV004-T2



Parameters

- Type PV004-T2
- Rated Voltage 1000V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Adapter Connector PV004/PV005
- Insulation Material PPO
- Flame Class UL94 V-0

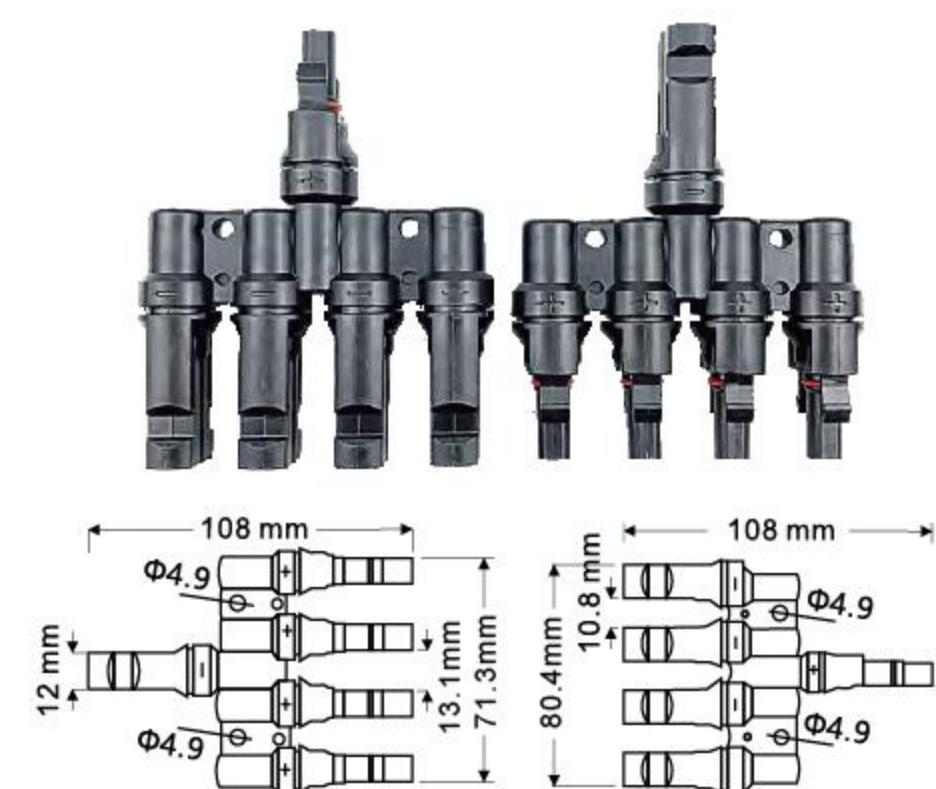
3 to 1 T Branch Connector PV004-T3



Parameters

- Type PV004-T3
- Rated Voltage 1000V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Adapter Connector PV004/PV005
- Insulation Material PPO
- Flame Class UL94 V-0

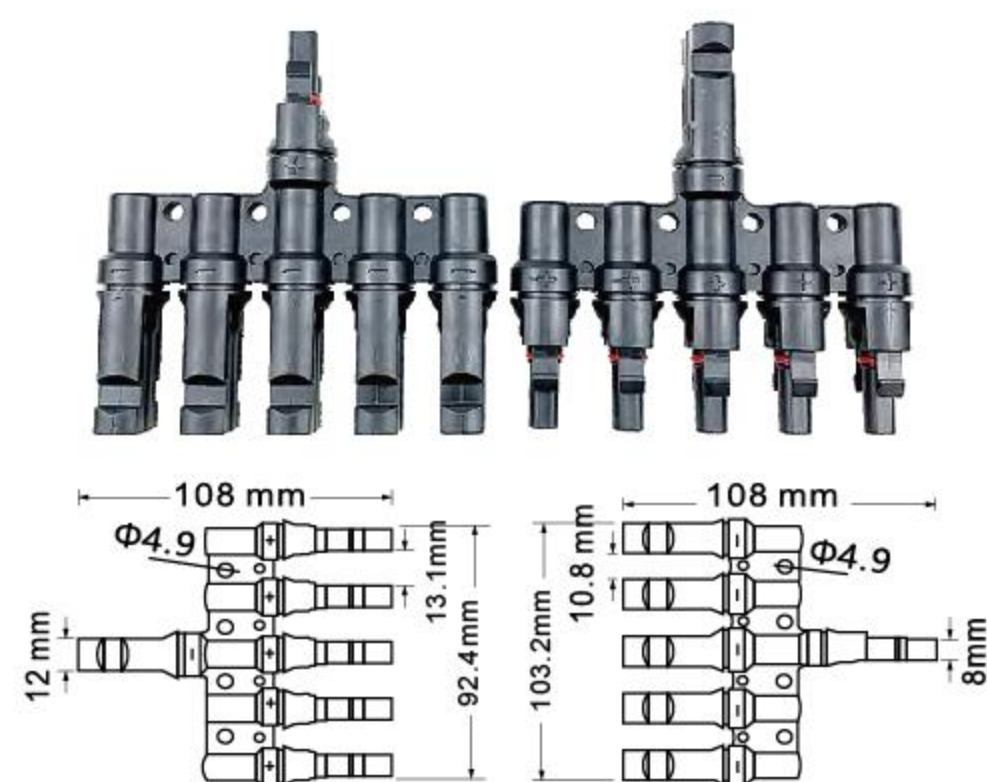
4 to 1 T Branch Connector PV004-T4



Parameters

- Type PV004-T4
- Rated Voltage 1000V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Adapter Connector PV004/PV005
- Insulation Material PPO
- Flame Class UL94 V-0

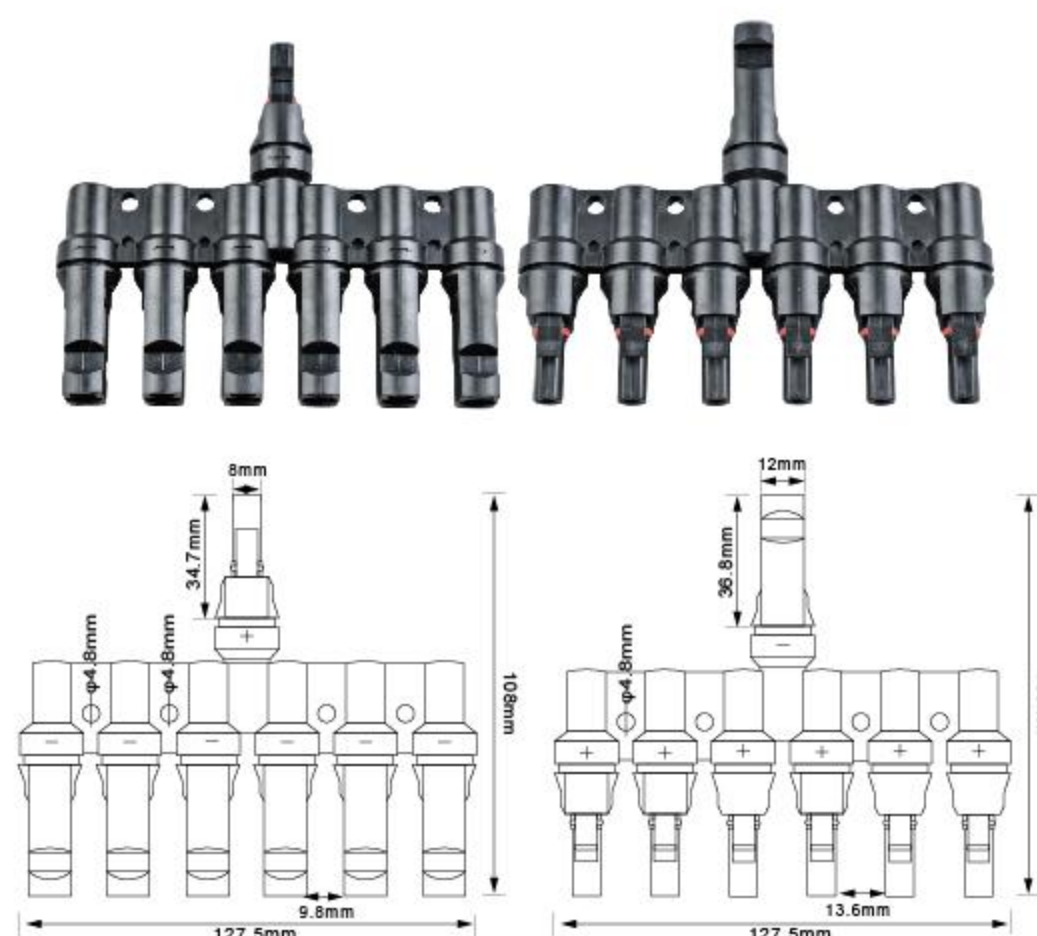
5 to 1 T Branch Connector PV004-T5



Parameters

- Type PV004-T5
- Rated Voltage 1000V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Adapter Connector PV004/PV005
- Insulation Material PPO
- Flame Class UL94 V-0

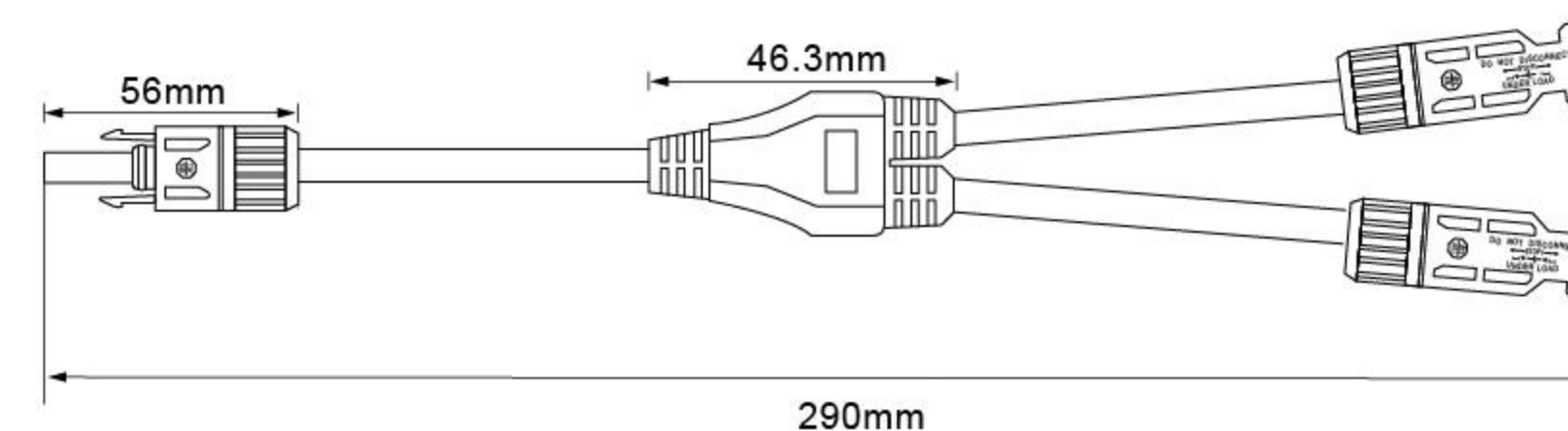
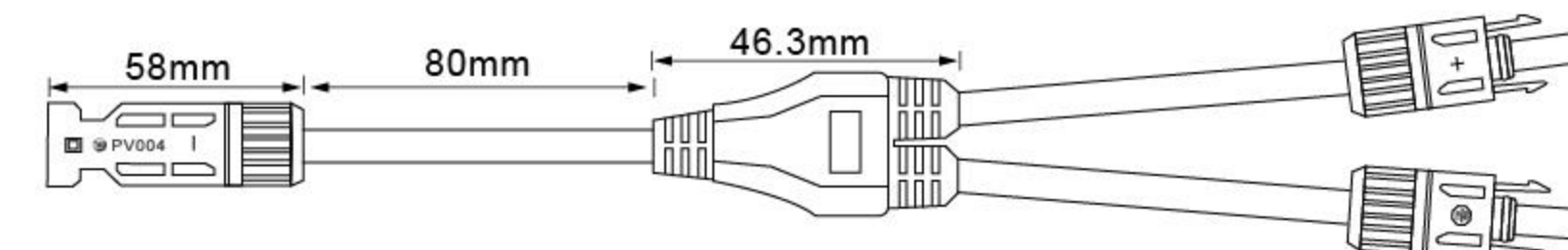
6 to 1 T Branch Connector PV004-T6



Parameters

- Type PV004-T6
- Rated Voltage 1000V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Adapter Connector PV004/PV005
- Insulation Material PPO
- Flame Class UL94 V-0

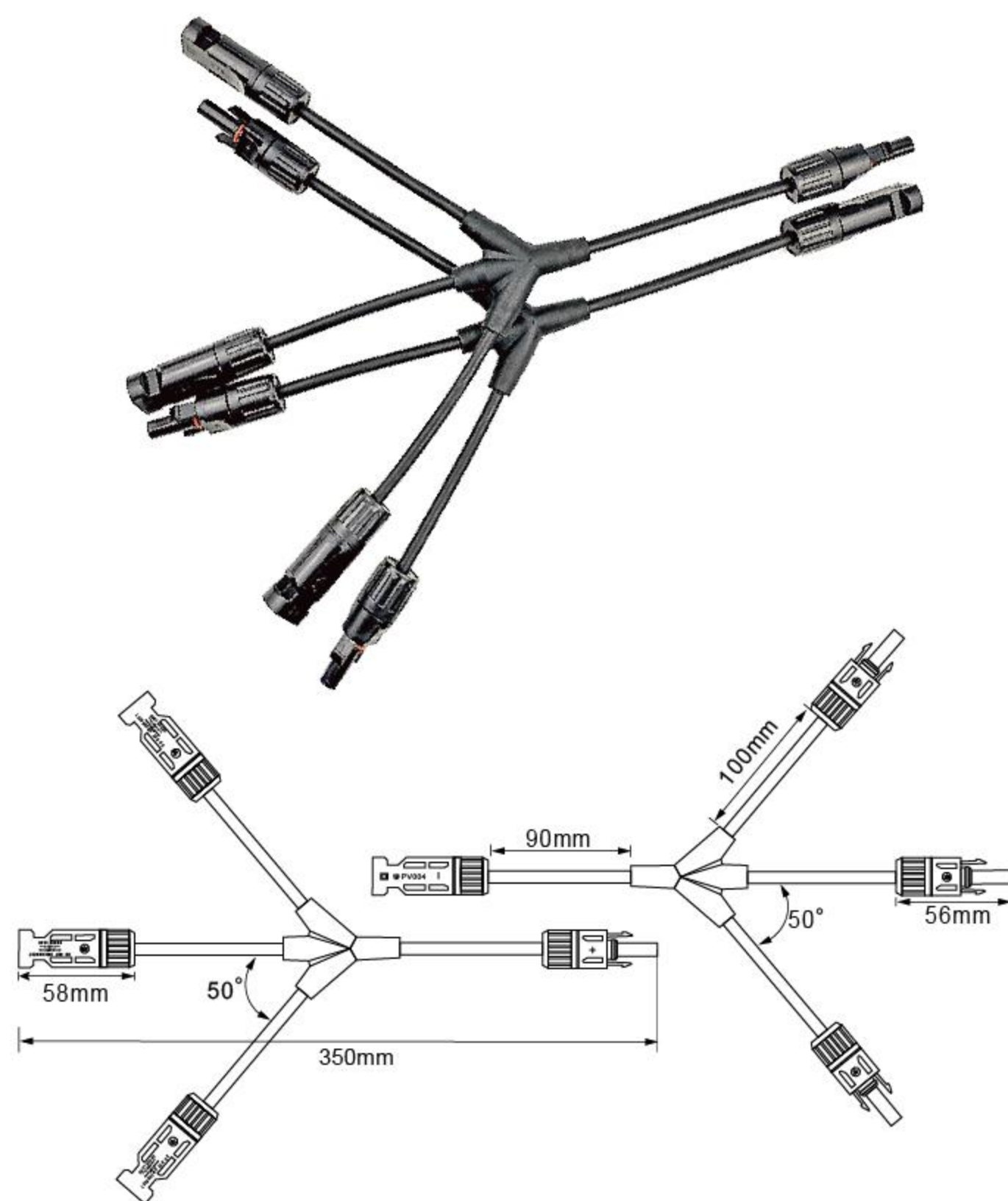
2 to 1 Y Branch Connector PV004-2T1



Parameters

- | | | | |
|-----------------------|--|-----------------------|-------------------------------|
| • Type | PV004-2T1 | • Contact Materials | Tin plated copper |
| • Rated Voltage | 1000V DC | • Insulation Material | PC EXL9330/XLPO |
| • Rated Current | 30A | • Flame Class | UL94 V-0 |
| • Protection Degree | IP65 | • Input Cable | PV Cable 1 × 4mm ² |
| • Contact Resistance | $\leq 0.5\text{m}\Omega$ | • Output Cable | PV Cable 1 × 4mm ² |
| • Ambient Temperature | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ | | |

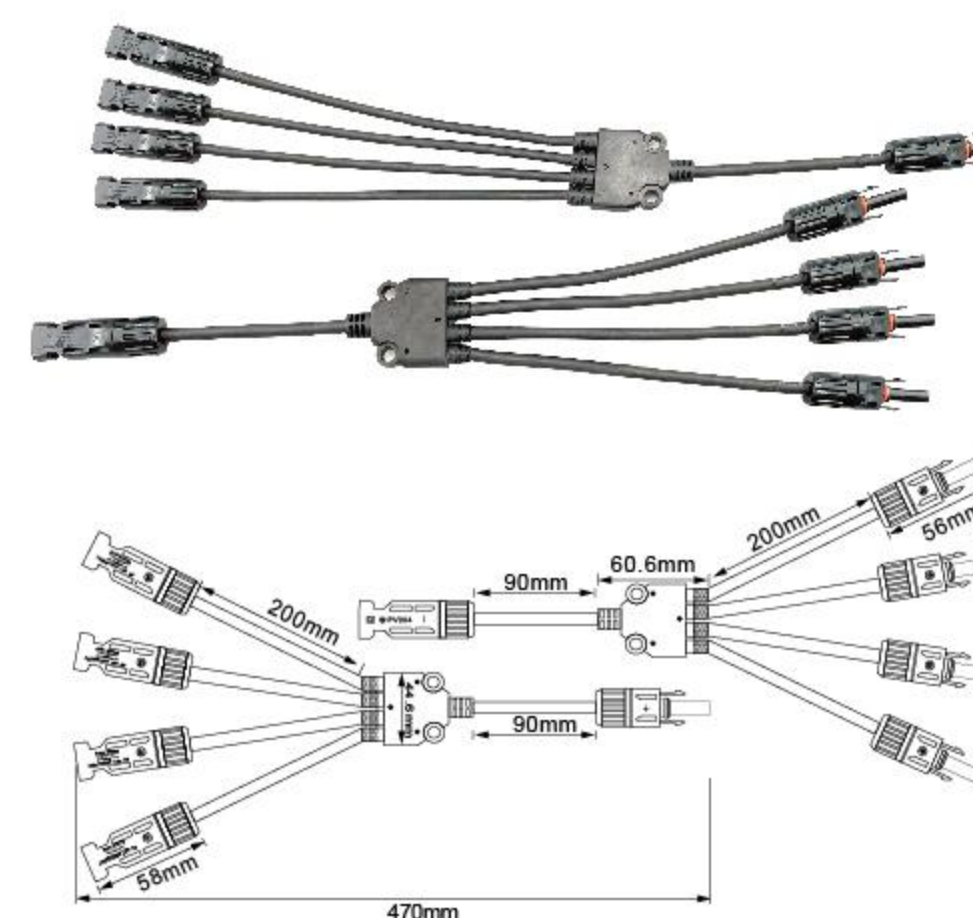
3 to 1 Y Branch Connector PV004-3T1



Parameters

• Type	PV004-3T1	• Contact Materials	Tin plated copper
• Rated Voltage	1000V DC	• Insulation Material	PC EXL9330/XLPO
• Rated Current	30A	• Flame Class	UL94 V-0
• Protection Degree	IP65	• Input Cable	PV Cable 1 × 4mm ²
• Contact Resistance	≤0.5mΩ	• Output Cable	PV Cable 1 × 4mm ²
• Ambient Temperature	-40℃~+85℃		

4 to 1 Y Branch Connector PV004-4T1



Parameters

• Type	PV004-4T1
• Rated Voltage	1000V DC
• Rated Current	30A
• Protection Degree	IP65
• Contact Resistance	≤0.5mΩ
• Ambient Temperature	-40℃~+85℃
• Contact Materials	Tin plated copper
• Insulation Material	PC EXL9330/XLPO
• Flame Class	UL94 V-0
• Input Cable	PV Cable 1 × 4mm ²
• Output Cable	PV Cable 1 × 6mm ²

X to 1 Y Branch Connector PV004-XT1



Parameters

• Type	PV004-XT1
• Rated Voltage	1000V DC
• Rated Current	30A
• Protection Degree	IP65
• Contact Resistance	≤0.5mΩ
• Ambient Temperature	-40℃~+85℃
• Contact Materials	Tin plated copper
• Insulation Material	PC EXL9330/XLPO
• Flame Class	UL94 V-0
• Input Cable	PV Cable 1 × 4/6mm ²
• Output Cable	PV Cable 1 × 4/6mm ²



SOLAR PV CONNECTOR 1500V SERIES

New Standard Solar PV Connector IEC62852

- ⚡ Load Capability with big current and high voltage
- ⦿ Lower contact resistance
- 💧 Design of waterproof and dust proof
- 🛡️ Excellent performances of high-low temperature resistance, fireproof, anti-ultraviolet



**15 YEARS OF QUALITY
ADHERE TO THE SAME**

**MAKE PHOTOVOLTAIC
POWER STATIONS SAFER**



PNTTECH

Zhejiang Pntech Technology Co.,Ltd.



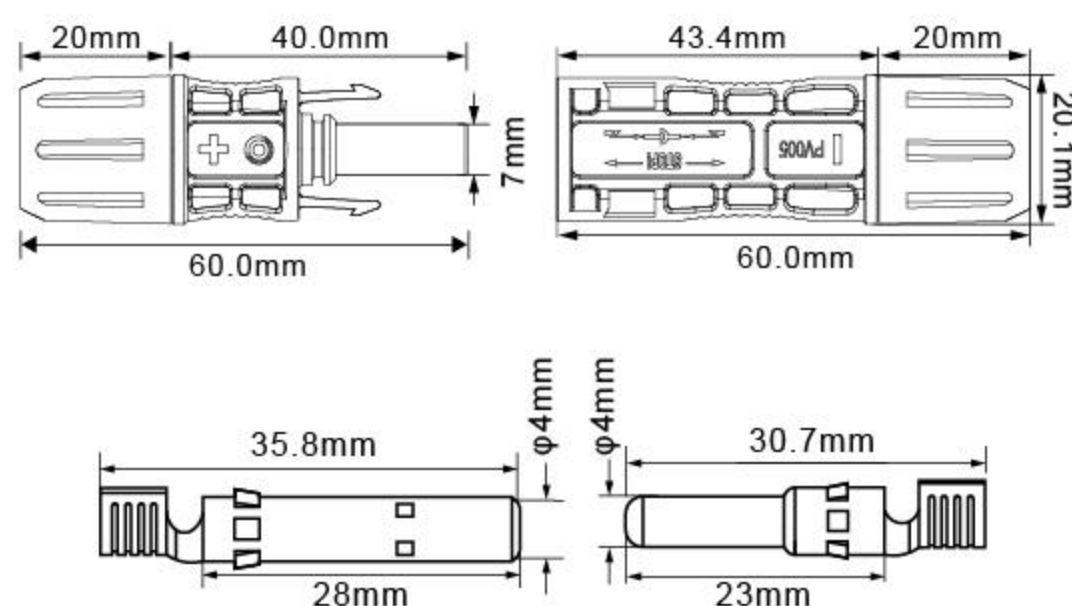
PV 005 *Solar PV Connector*

Standard IEC62852:2014



Parameters

- Type PV005
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Standard IEC 62852:2014
- Protection Degree IP67
- Contact Resistance $\leq 0.3m\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Cable Cross Section Area $2.5\text{mm}^2, 4\text{mm}^2, 6\text{mm}^2$
- Insulation Material PV40Z/PC EXL9330
- Flame Class UL94 V-0

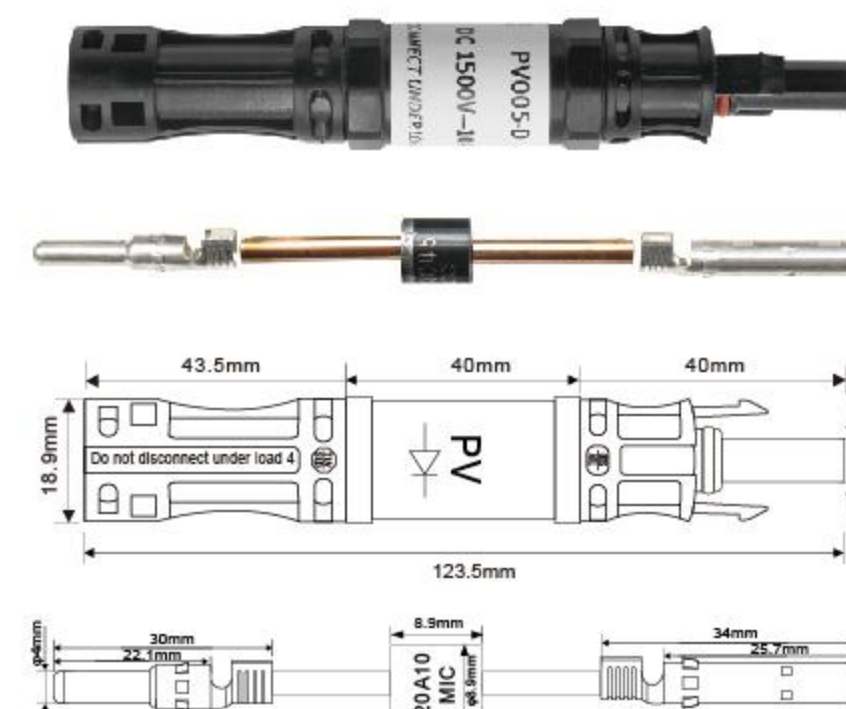


Feature

- Lower contact resistance
- Good heat resistance and cold resistance
- Quality Assurance for 5 years
- TÜV certification
- Suitable for outdoor harsh environment
- Waterproof and dustproof design

Diode Connector PV005-D

Standard IEC62852:2014

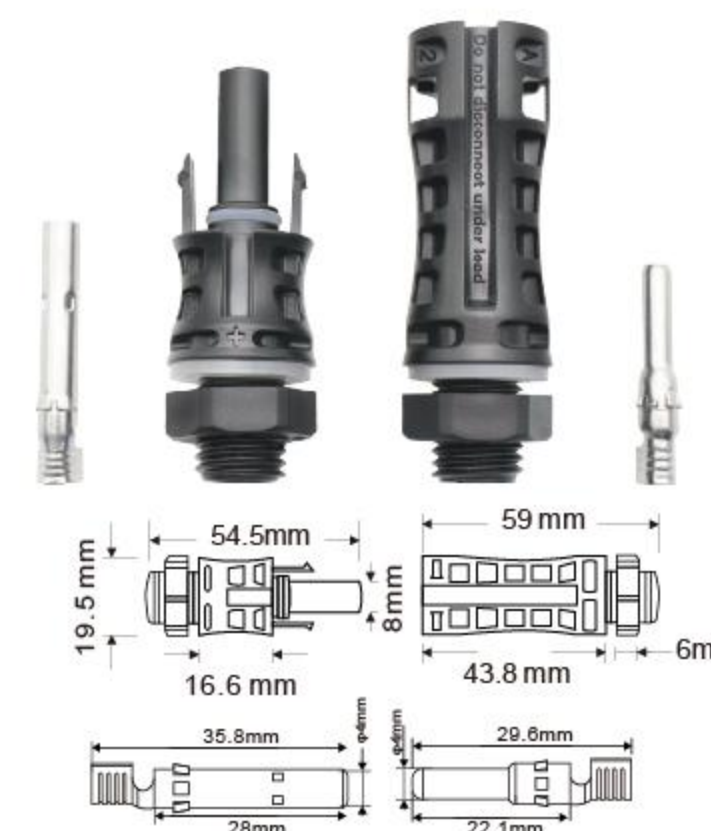


Parameters

- Type PV005-D
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 10A, 15A, 20A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5m\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Insulation Material PPO
- Flame Class UL94 V-0

Plate End Connector PV005-P

Standard IEC62852:2014

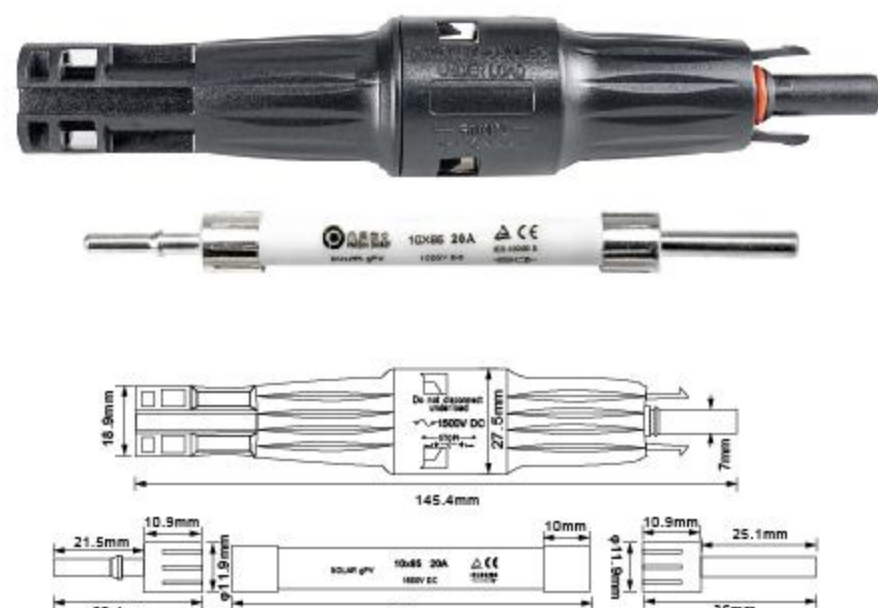


Parameters

- Type PV005-P
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 30A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5m\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Thread Size 12mm
- Insulation Material PPO
- Flame Class UL94 V-0

Fuse Connector PV005-FA

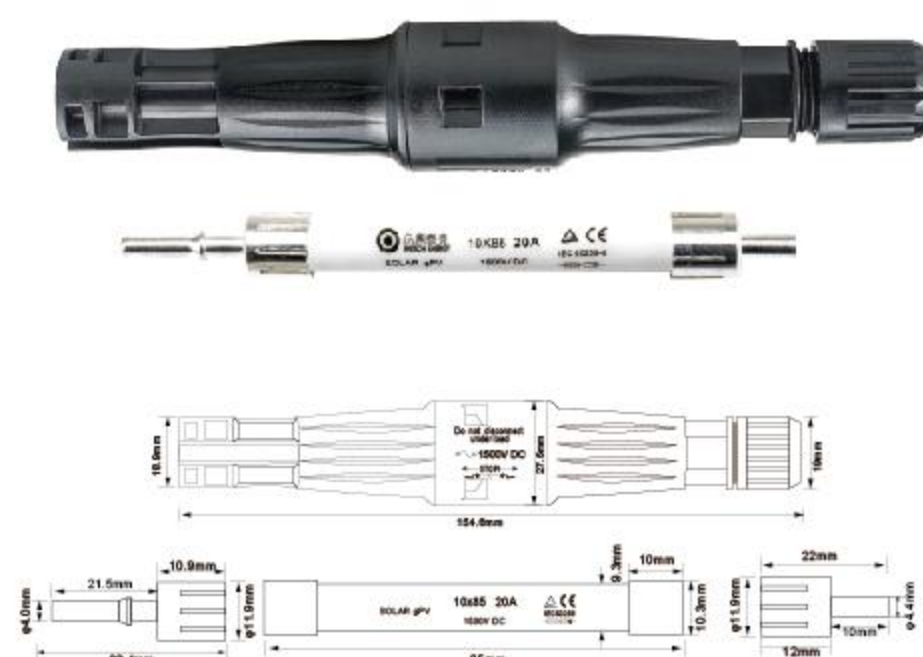
Standard IEC62852:2014

**Parameters**

- Type PV005-FA
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 15A,20A,25A,30A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Insulation Material PPO
- Flame Class UL94 V-0

Fuse Connector PV005-FB

Standard IEC62852:2014

**Parameters**

- Type PV005-FB
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 15A,20A,25A,30A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Insulation Material PPO
- Flame Class UL94 V-0

Fuse Connector PV005-FC

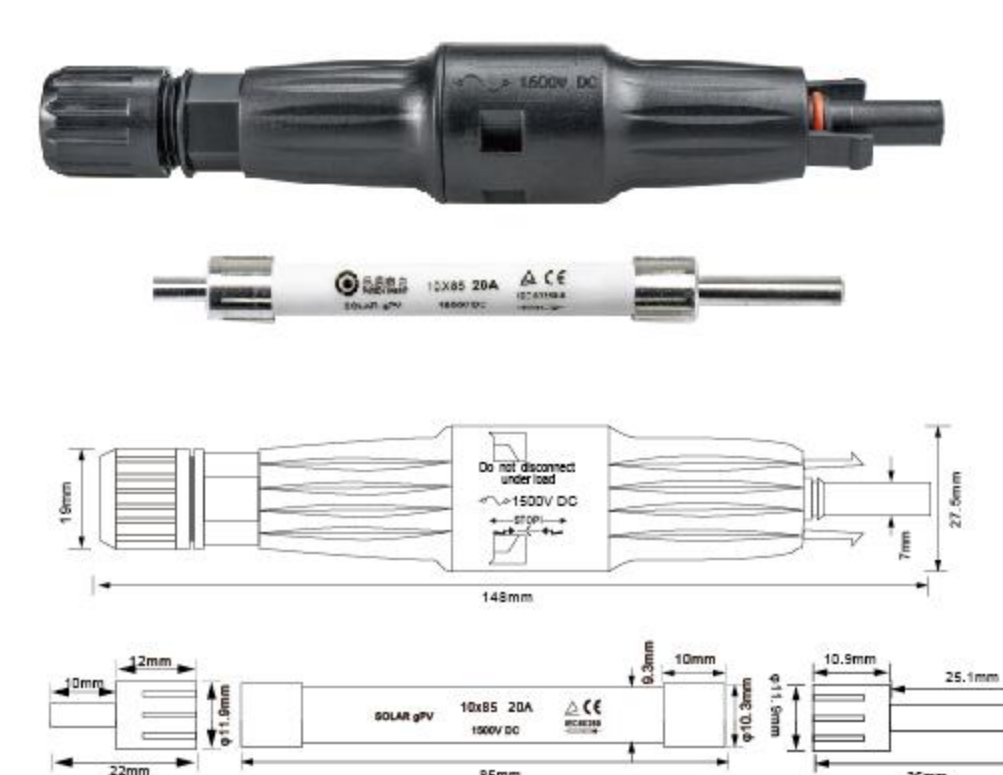
Standard IEC62852:2014

**Parameters**

- Type PV005-FC
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 15A,20A,25A,30A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Insulation Material PPO
- Flame Class UL94 V-0

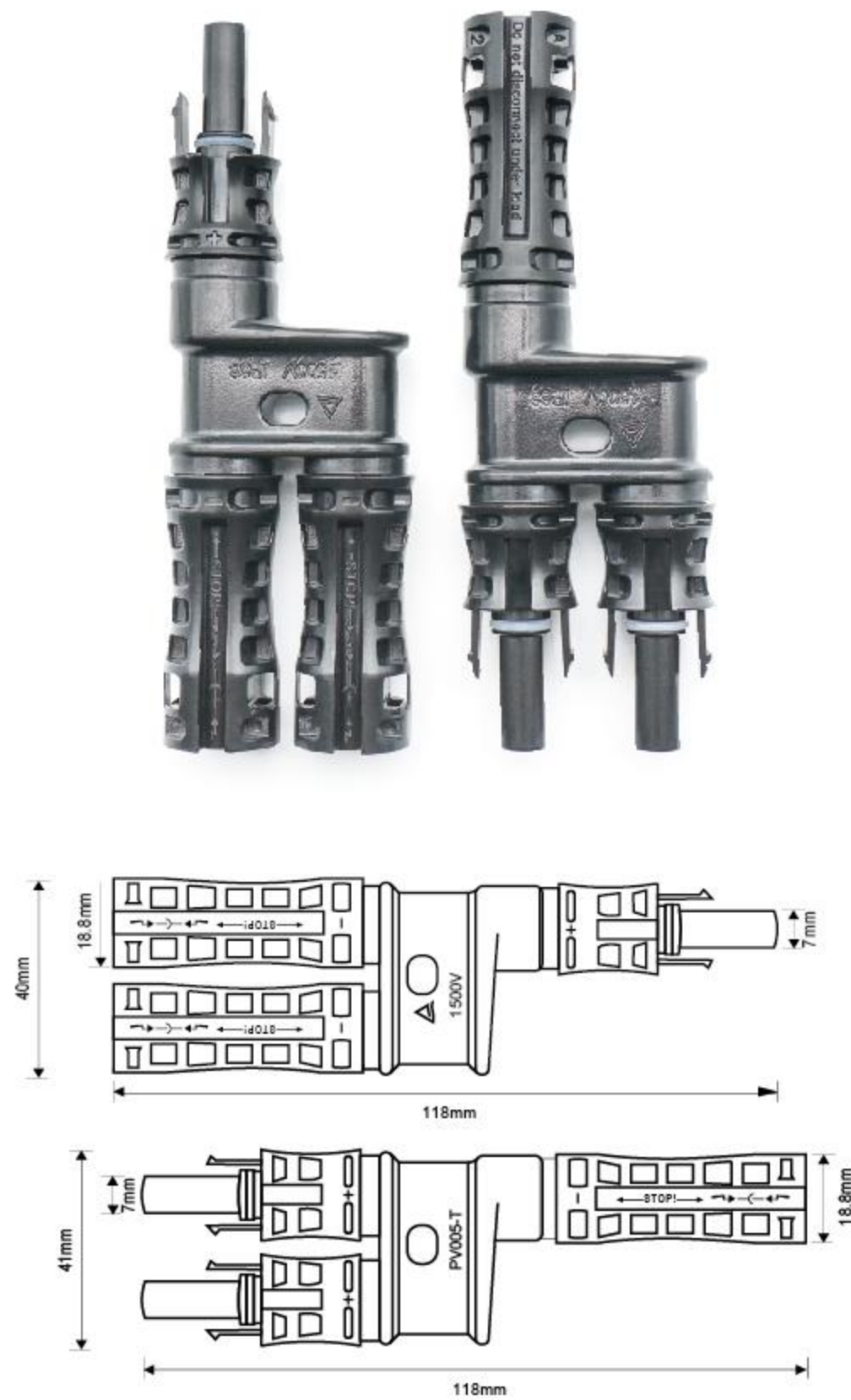
Fuse Connector PV005-FD

Standard IEC62852:2014

**Parameters**

- Type PV005-FD
- Rated Voltage 1500V DC
- Contact Materials Tin plated copper
- Rated Current 15A,20A,25A,30A
- Standard IEC 62852:2014
- Protection Degree IP65
- Contact Resistance $\leq 0.5\text{m}\Omega$
- Ambient Temperature $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Insulation Material PPO
- Flame Class UL94 V-0

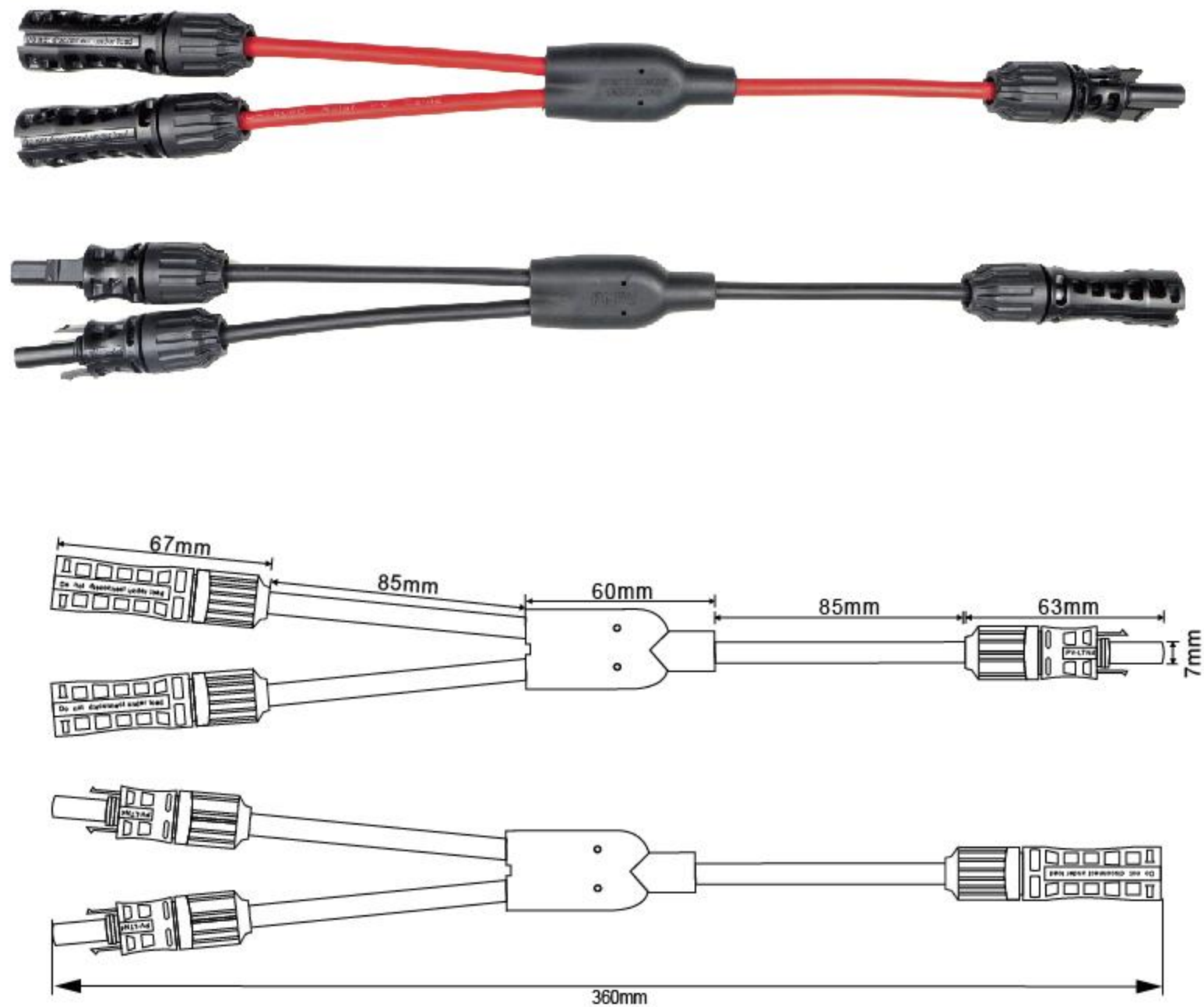
2 to 1 T Branch Connector PV005-T



Parameters

- | | | | |
|----------------------|----------|-----------------------|-------------------|
| • Type | PV005-T | • Ambient Temperature | -40℃~+85℃ |
| • Rated Voltage | 1500V DC | • Contact Materials | Tin plated copper |
| • Rated Current | 30A | • Adapter Connector | PV004/PV005 |
| • Protection Degree | IP67 | • Insulation Material | PPO |
| • Contact Resistance | ≤0.5mΩ | • Flame Class | UL94 V-0 |

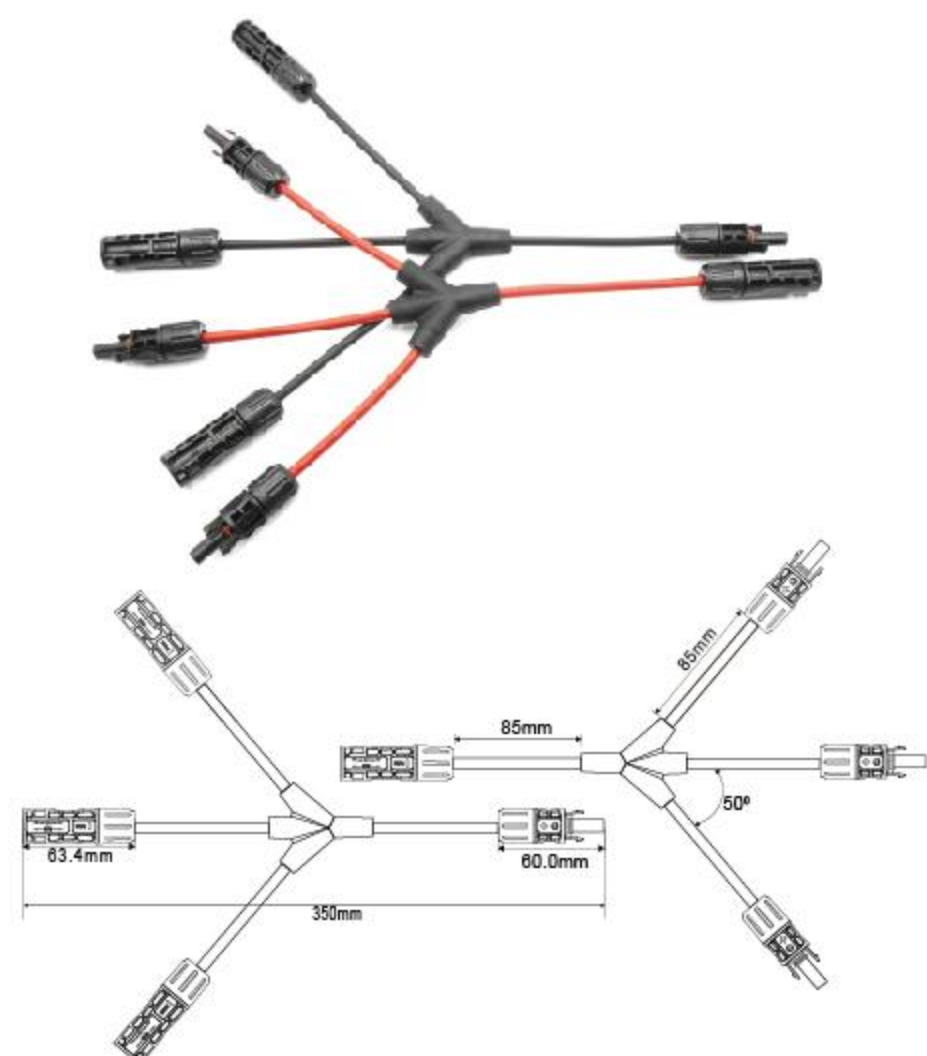
2 to 1 Y Branch Connector PV005-2T1



Parameters

- | | | | |
|-----------------------|-----------|-----------------------|-------------------|
| • Type | PV005-2T1 | • Contact Materials | Tin plated copper |
| • Rated Voltage | 1500V DC | • Insulation Material | PV40Z/XLPO |
| • Rated Current | 30A | • Flame Class | UL94 V-0 |
| • Protection Degree | IP65 | • Input Cable | PV Cable 1×4mm² |
| • Contact Resistance | ≤0.5mΩ | • Output Cable | PV Cable 1×4mm² |
| • Ambient Temperature | -40℃~+90℃ | | |

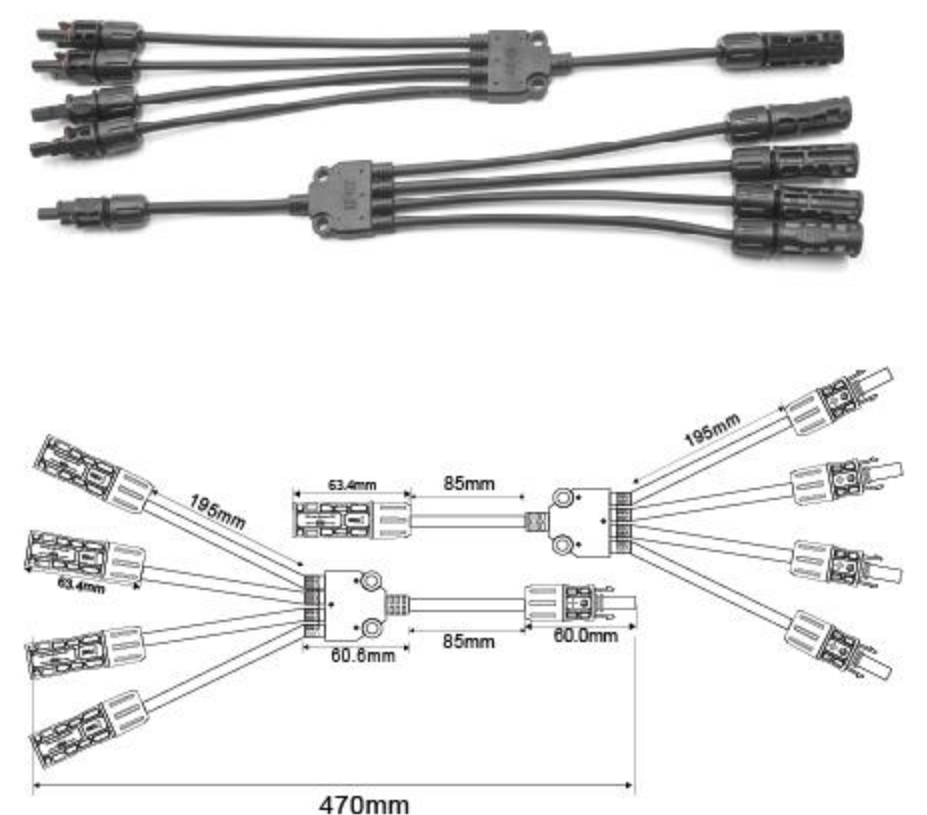
3 to 1 Y Branch Connector PV005-3T1



Parameters

- Type PV005-3T1
- Rated Voltage 1500V DC
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5m\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Contact Materials Tin plated copper
- Insulation Material PV40Z/PC EXL9330 /XLPO
- Flame Class UL94 V-0
- Input Cable PV Cable $1 \times 4\text{mm}^2$
- Output Cable PV Cable $1 \times 4\text{mm}^2$

4 to 1 Y Branch Connector PV005-4T1



Parameters

- Type PV005-4T1
- Rated Voltage 1500V DC
- Rated Current 30A
- Protection Degree IP65
- Contact Resistance $\leq 0.5m\Omega$
- Ambient Temperature $-40^{\circ}\text{C} \sim +90^{\circ}\text{C}$
- Contact Materials Tin plated copper
- Insulation Material PV40Z/PC EXL9330 /XLPO
- Flame Class UL94 V-0
- Input Cable PV Cable $1 \times 4\text{mm}^2$
- Output Cable PV Cable $1 \times 6\text{mm}^2$

1500V Series Solar PV Connector



PV005

PV005-FA
Matching connectorPV005-FA
Matching connector

PV005-FC



PV005-FC

PV005-FB
Matching connectorPV005-FB
Examples of finished productsPV005-FD
Matching connectorPV005-F
Internal structure



FOUR REASONS FOR CHOOSING



Safe and reliable material: use the PC EXL9330 and XLPO as the shell, tinned copper as the conductor.

Easy to install: compatible with all standard MC4 connectors, easy to use and install

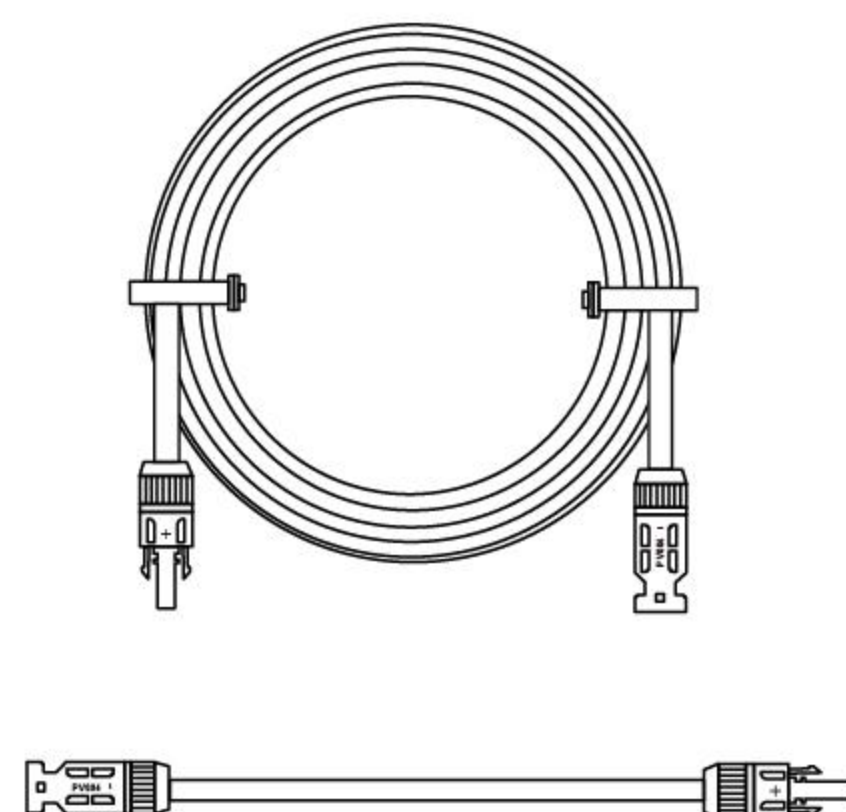
High quality and Long life span: Dust proof, Waterproof, UV Resistant, Portable

More widely applicable: usually used for connection the solar panel DC output and solar panel output, or extension

SOLAR EXTENSION CABLE



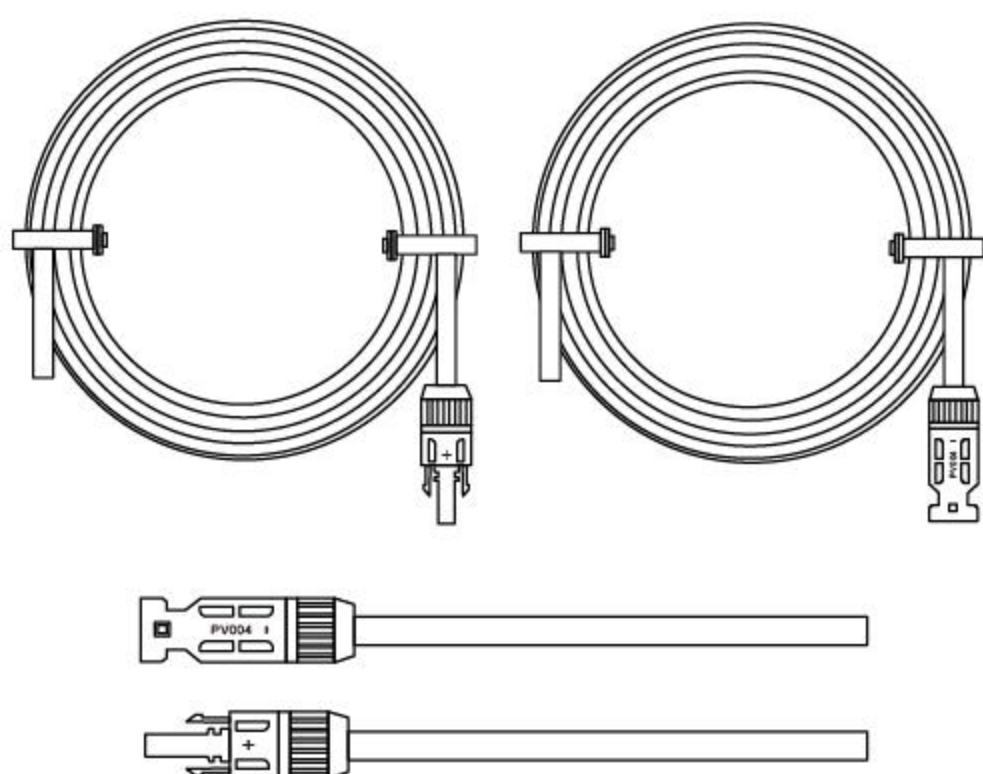
Solar Extension Cable With Connector Double Ends



Parameters

- Type DC-DC
- Rated Voltage 1000V/1500V DC
- Rated Current 30A
- Contact Resistance $\leq 0.5m\Omega$
- Ambient Temperature $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Contact Materials Tin plated copper
- Insulation Material PC EXL9330/XLPO
- Flame Class UL94 V-0
- Cable specifications 2.5/4/6/10mm²
- Cable Length Customized

Solar Extension Cable With Connector Single Ends



Parameters

- Type DC-00
- Rated Voltage 1000V/1500V DC
- Rated Current 30A
- Contact Resistance $\leq 0.5m\Omega$
- Ambient Temperature $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Contact Materials Tin plated copper
- Insulation Material PC EXL9330/XLPO
- Flame Class UL94 V-0
- Cable specifications 2.5/4/6/10mm²
- Cable Length Customized

Customization Scheme for Solar Extension Cable



Double Ends



Single Ends

← Custom Size →

● Battery Brass Buckle



● O Type DT



● Anderson Joint



● Solar Street Light



Solar Tool Kits (Model)

C4K-L



Crimping Pliers(Big)
Wire Stripper
Screw Driver × 2

Wire Cutters
Nipper Pliers
Connector Spanner

C4K-S



Crimping Pliers(Small)
Wire Stripper

Wire Cutters
Connector Spanner

C4K-C



Crimping Pliers(Big)
Wire Stripper

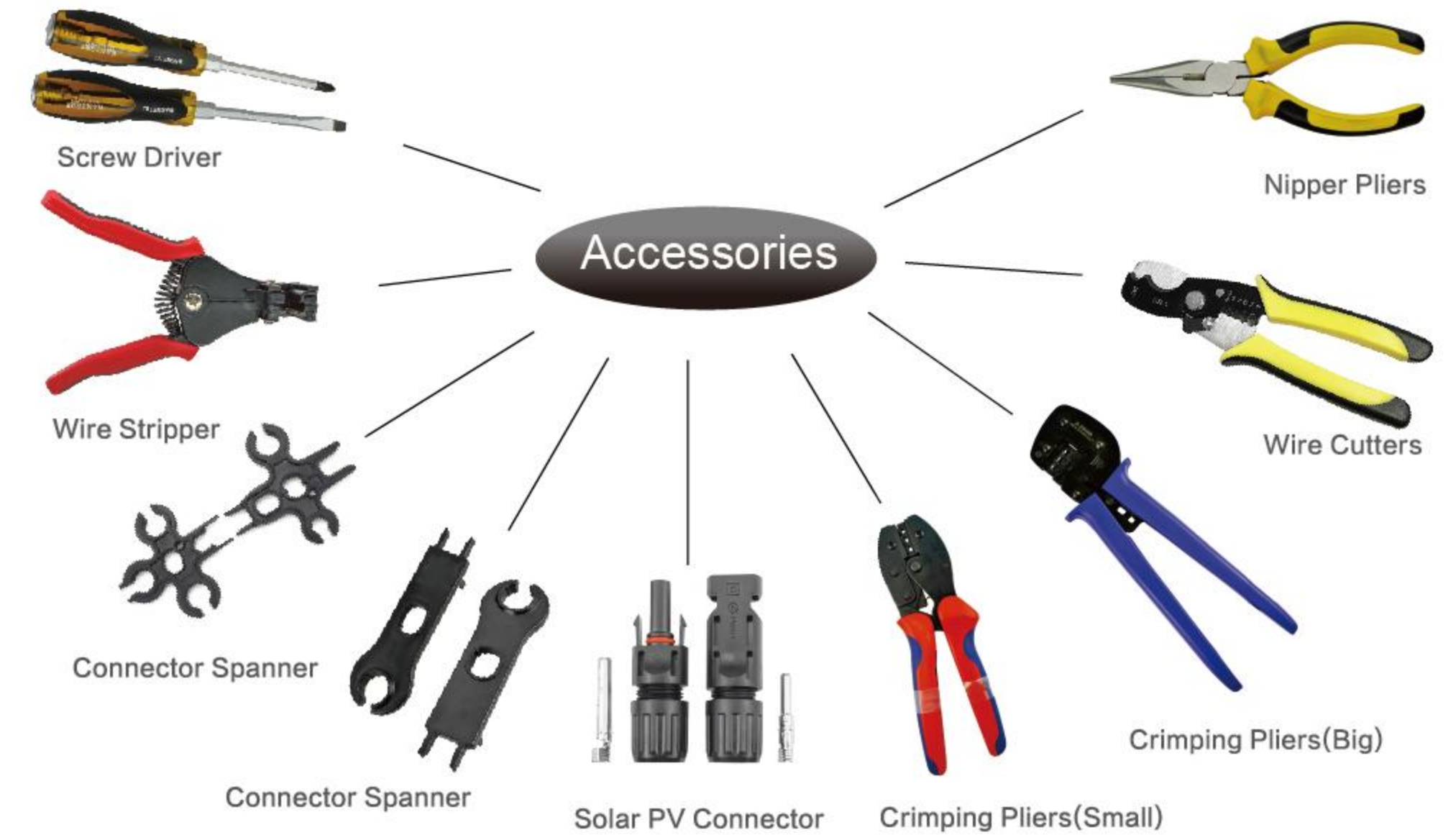
Wire Cutters
Connector Spanner

C4K-D



Crimping Pliers(Small)
Wire Stripper

Wire Cutters
Connector Spanner



Pressure To Demonstrate



Preparing the Tools



1.Cut the Wire



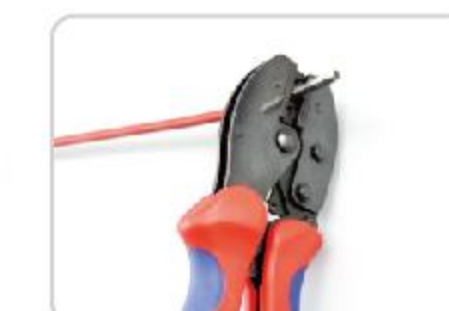
Use wire cutters to cut out the desired length



2.Wire Stripping



Use wire strippers to stripout the cable about 1cm



3.Crimping



Use crimping pliers to fix-copper terminals on the end of stripped cable.



4.Combination



Insert the wire with copper terminal into the connector and use spanner to tighten the nut



5.Docking



Connect the positive and negative terminals of the connector, ensure that the latch is fully inserted and locked



▶ PNTech plant project



▶ Hebei Chengde Ground Power Station



▶ Ningbo Shenzhou Textile factory roof project



▶ Ningbo Xiangshan 5.7 MWp project



▶ Shaoxing 2MWp surface power station



▶ Hainan Province, Qinghai Province Project



► Cadmium telluride BIPV project of Guangzhou Art Museum



► Heilongjiang 200MWp ground station project



► The BAOJIANG industrial zone project in Shaoxing



► Hangzhou Bay SAIC Volkswagen Plant PV Project



► Tianyi Plaza Green Low Carbon Parking Building

► Ninghai Lead for Vision Project



► Huawei Antoine Headquarters Building Project

► Ningxia Project

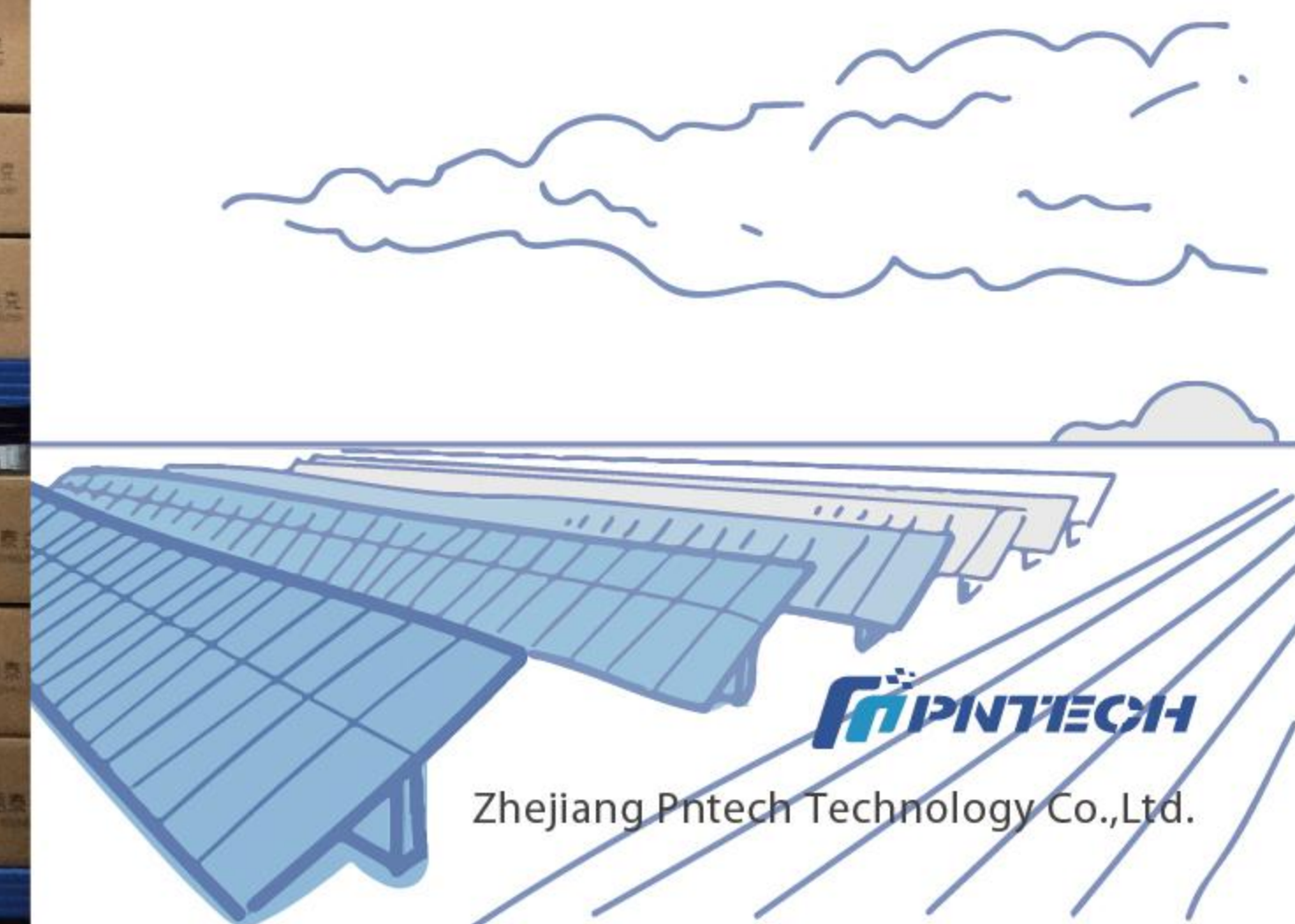


INTEGRITY MANAGEMENT QUALITY RESPONSIBILITY

BRING QUALITY HOME
ADD SUNSHINE TO PHOTOVOLTAIC



BRING QUALITY HOME
ADD SUNSHINE TO PHOTOVOLTAIC



PNTech

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