CONTACT US

+86 574 2797 5188   +86 574 8812 1322

peak@pntech.com.cn

No.1, North of Zhongyi Avenue, Gulin Town,
Haishu District, Ningbo, China 315100

FOCUS ON ENTERPRISE WECHAT

PNTECH

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 certificates 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

Through step-by-step and bit-by-bit accumulation, PNTECH has grown 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.

PRODUCT CONTENTS
目录

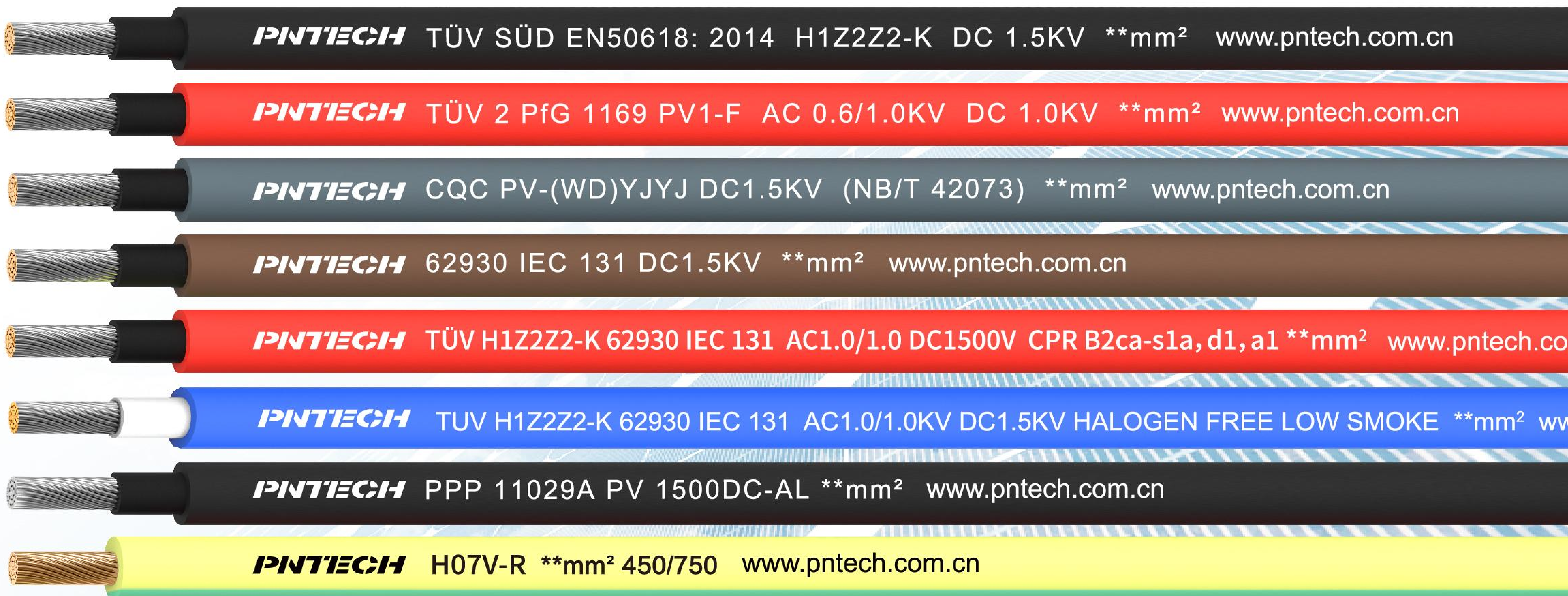
PNTECH

Zhejiang Pntech Technology Co.,Ltd.

DC SOLAR PV CABLE

25 YEAR LIFE SPAN / 5 YEAR 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/XLPE) for insulation and jacket, so the cable can bear the solar radiation and be used at high/low temperatures.

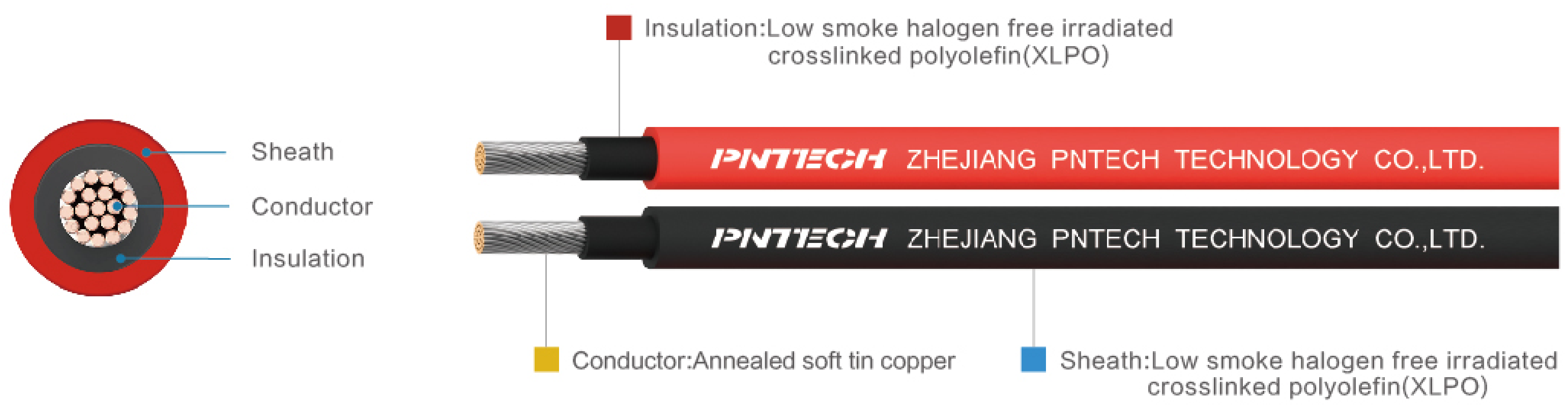


PNTECH

Zhejiang Pntech Technology Co.,Ltd.

TÜV/CPR H1Z2Z2-K

Approvals CPR B2ca-s1a,d1,a1 (1008-CPR-MC 69266784 0001)
TÜV EN50618:2014 H1Z2Z2-K 1 × 1.5mm²~35mm²



TECHNICAL DATA

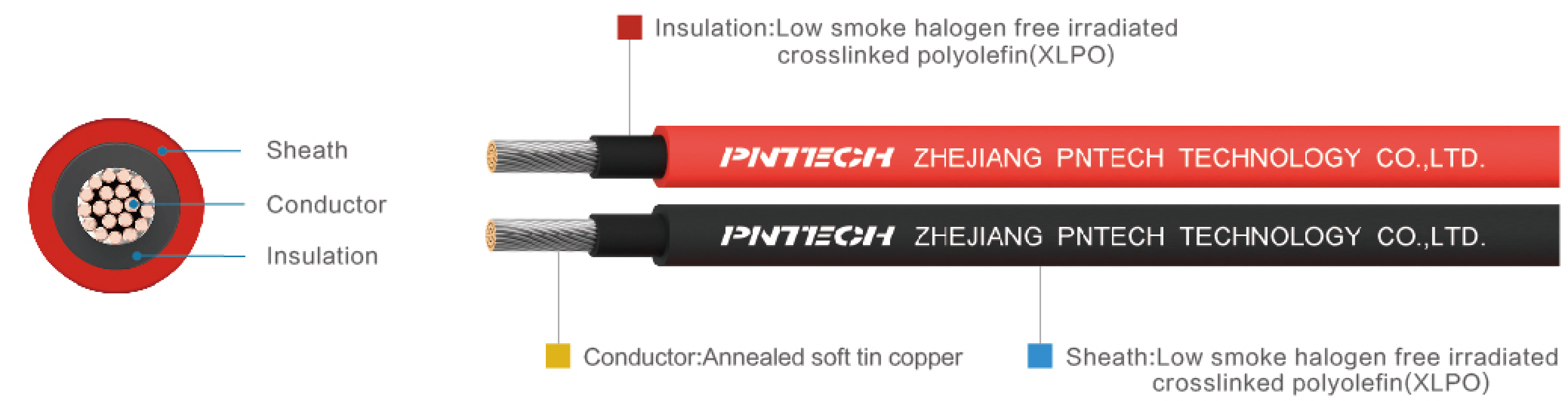
- Rated voltage:AC U₀/U 1.0/1.0KV，DC1.5KV
- Voltage test on completed cable:AC6.5KV/5min，DC15KV/5min
- Ambient temperature:-40℃~+90℃
- The expected period of use is 25 years(Ambiet temperature:-40℃ up to+90℃)
- The permitted short -circuit-temperature referring to a period of 5s is+200℃
- Pressure test at high temperature：EN50395
- Bending radius:≥4xD（D<8mm） ≥6xD（D≥8mm）
- Resistance against acid and alkaline solution:EN60811-404
- Ozone resistance:EN60811-403
- Ageing properties:EN60811-401
- Cold bending test :EN60811-504
- Weathering/UV-resistance:EN50618
- Test under fire condition:EN60332-1-2
- Damp heat test:EN60068-2-78

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (φn/mm±0.015)	Conductor stranded (φmm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (φmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
1.5	22x0.285	1.5	0.7	0.8	4.6	13.7	24
2.5	36x0.285	2.0	0.7	0.8	5.1	8.21	33
4	56x0.285	2.4	0.7	0.8	5.5	5.09	44
6	84x0.285	3.0	0.7	0.8	6.3	3.39	57
10	80x0.39	4.0	0.7	0.8	7.3	1.95	79
16	120x0.39	5.0	0.7	0.9	9.0	1.24	107
25	196x0.39	6.3	0.9	1.0	11.2	0.795	142
35	276x0.39	7.4	0.9	1.0	12.4	0.565	176

TÜV 62930 IEC131

Approvals TÜV Rheinland 62930 IEC 131 1 × 1.5mm²~35mm²



TECHNICAL DATA

- Rated voltage:AC U₀/U 1.0/1.0KV，DC1.5KV
- Voltage test on completed cable:AC6.5KV/5min，DC15KV/5min
- Ambient temperature:-40℃~+90℃
- The expected period of use is 25 years(Ambiet temperature:-40℃ up to+90℃)
- The permitted short -circuit-temperature referring to a period of 5s is+200℃
- Thermal endurance properties：IEC60216-1
- Bending radius:≥4xD（D<8mm） ≥6xD（D≥8mm）
- Resistance against acid and alkaline solution:EN60811-404
- Ozone resistance:EN60811-403
- Ageing properties:EN60811-401
- Cold bending test :EN60811-504
- Weathering/UV-resistance:IEC 62930
- Test under fire condition:EN60332-1-2
- Damp heat test:EN60068-2-78

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (φn/mm±0.015)	Conductor stranded (φmm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (φmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
1.5	22x0.285	1.5	0.7	0.8	4.6	13.7	24
2.5	36x0.285	2.0	0.7	0.8	5.1	8.21	33
4	56x0.285	2.4	0.7	0.8	5.5	5.09	45
6	84x0.285	3.0	0.7	0.8	6.3	3.39	58
10	80x0.39	4.0	0.7	0.8	7.3	1.95	80
16	120x0.39	5.0	0.7	0.9	9.0	1.24	107
25	196x0.39	6.3	0.9	1.0	11.2	0.795	138
35	276x0.39	7.4	0.9	1.0	12.4	0.565	171

TÜV 62930 IEC131 *Double parallel solar cable*

Approvals TÜV Rheinland 62930 IEC 131 2×2.5mm²~10mm²

TECHNICAL DATA

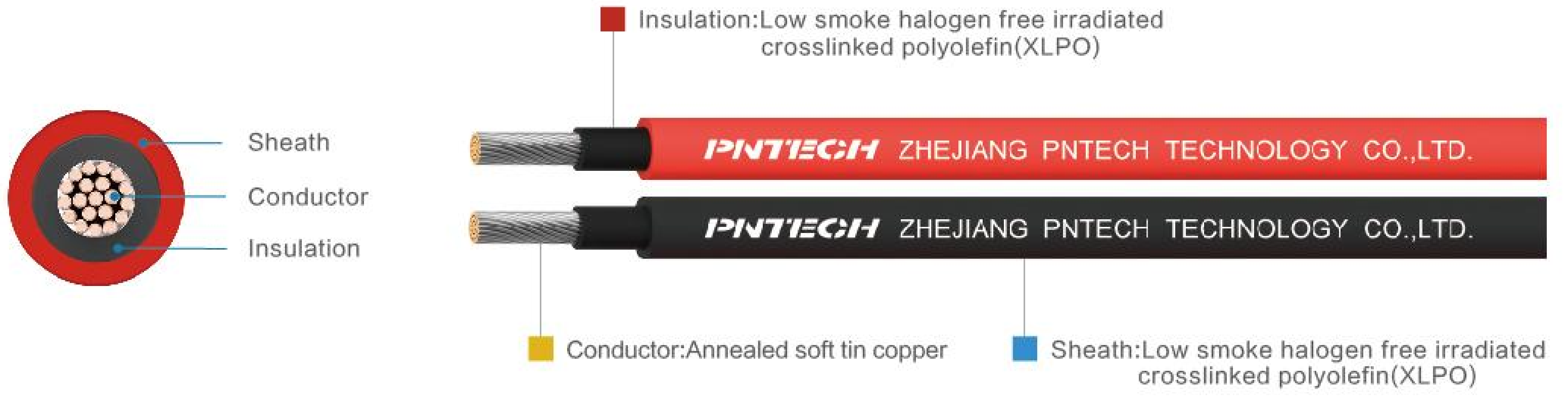
- Rated voltage:AC U_0/U 1.0/1.0KV，DC1.5KV
- Voltage test on completed cable:AC6.5KV/5min，DC15KV/5min
- Ambient temperature:−40℃~+90℃
- The expected period of use is 25 years(Ambiet temperature:−40℃ up to+90℃)
- The permitted short −circuit−temperature referring to a period of 5s is+200℃
- Thermal endurance properties：IEC60216−1
- Bending radius:⩾4xD（D<8mm） ⩾6xD（D⩾8mm）
- Resistance against acid and alkaline solution:EN60811−404
- Ozone resistance:EN60811−403
- Ageing properties:EN60811−401
- Cold bending test :EN60811−504
- Weathering/UV−resistance:IEC 62930
- Test under fire condition:EN60332−1−2
- Damp heat test:EN60068−2−78

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (ϕn/mm±0.015)	Conductor stranded (ϕmm±0.02)	Insulation mediun thickness (⩾mm)	Sheath mediun thickness (⩾mm)	Cable OD (ϕmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
2x2.5	36x0.285	2.0	0.7	0.8	5.1×10.5	8.21	33
2x4	56x0.285	2.4	0.7	0.8	5.5×11.8	5.09	45
2x6	84x0.285	3.0	0.7	0.8	6.2×12.6	3.39	58
2x10	80x0.39	4.0	0.7	0.8	7.5×15.4	1.95	80

TÜV PV1-F

Approvals TÜV Rheinland 2PfG 1169 PV1−F 1×1.5mm²~35mm²



TECHNICAL DATA

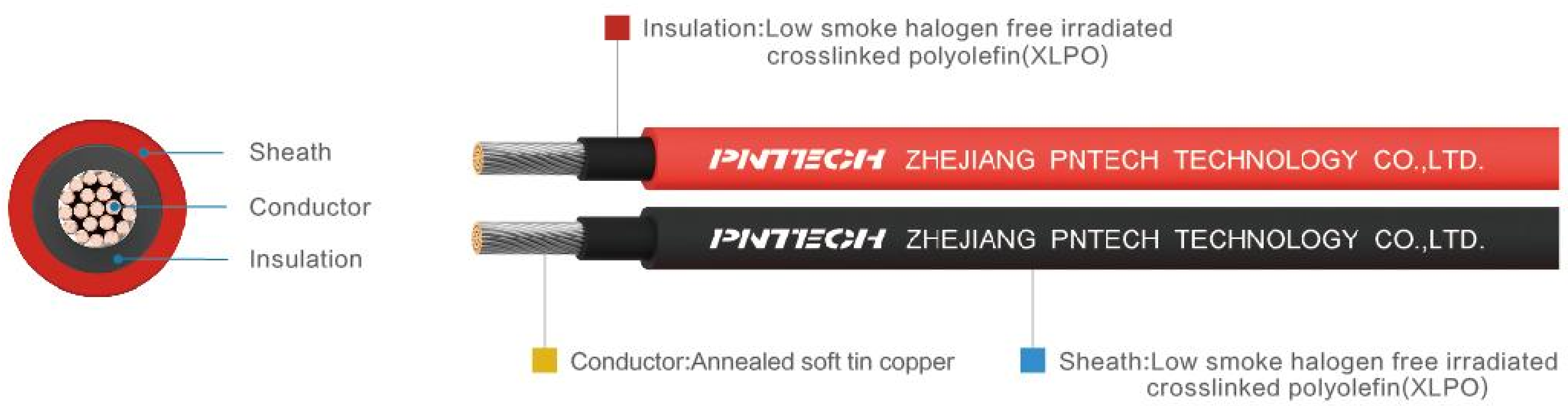
- Rated voltage:AC U_0/U 0.6/1.0KV，DC1.0KV
- Voltage test on completed cable:AC6.5KV/5min，DC15KV/5min
- Ambient temperature:−40℃~+90℃
- The expected period of use is 25 years(Ambiet temperature:−40℃ up to+90℃)
- The permitted short −circuit−temperature referring to a period of 5s is+200℃
- Heat extension：EN60811−2−1
- Bending radius:⩾4xD（D<8mm） ⩾6xD（D⩾8mm）
- Resistance against acid and alkaline solution:EN60811−2−1
- Ozone resistance:EN50396
- Ageing properties:EN60811−1−2
- Cold bending test :EN60811−1−4
- Weathering/UV−resistance:HD 605/A1
- Test under fire condition:EN60332−1−2
- Damp heat test:EN60068−2−78

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (ϕn/mm±0.015)	Conductor stranded (ϕmm±0.02)	Insulation mediun thickness (⩾mm)	Sheath mediun thickness (⩾mm)	Cable OD (ϕmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
1.5	22x0.285	1.5	0.5	0.5	4.3	13.7	24
2.5	36x0.285	1.9	0.5	0.5	4.8	8.21	33
4	56x0.285	2.4	0.5	0.5	5.2	5.09	44
6	84x0.285	3.0	0.5	0.5	6.1	3.39	57
10	80x0.39	4.0	0.5	0.5	7.2	1.95	79
16	120x0.39	5.0	0.5	0.5	8.4	1.24	107
25	196x0.39	6.3	0.5	0.5	10.2	0.795	142
35	276x0.39	7.4	0.5	0.5	11.2	0.565	176

PV wire

Approvals UL4703 PV 16AWG~2AWG



TECHNICAL DATA

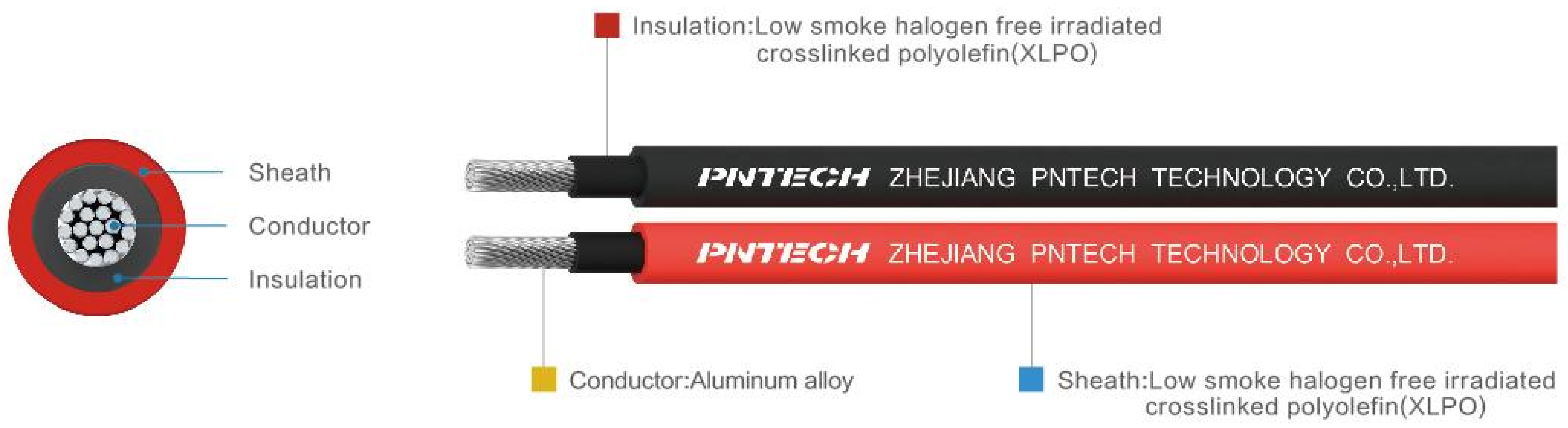
- Rated voltage:(U):U=1.0KV / 2.0KVAC
- Test voltage:(Uo):U=1.0KV，2.0KV
  18~10AWG,Uo=6.0KV，50HZ，1min
  8~2 AWG,Uo=7.5KV，50HZ，1min
- Ambient temperature:−40℃~+90℃
- Flame test:UL1581 VW−1
- Relative permittivity:UL854
- Stability factor:UL854
- Sunlight resistance:UL2556
- Cold bending test:UL854

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

AWG	Nominal Area	Conductor constuction (ϕn/mm±0.02)	1000V and 2000V Cable OD (ϕmm±0.02)	Conductor MAX. Resistance AT 20℃ (Ω/km)
16	1.31	18×0.29	5	14.6
14	2.08	32×0.29	5.7	8.96
12	3.31	48×0.29	6.3	5.64
10	5.261	78×0.29	6.8	3.546
8	8.367	68×0.38	7.8	2.23
6	13.3	116×0.38	8.8	1.403
4	21.15	180×0.38	10.1	0.882
2	33.62	260×0.39	12.5	0.5548

PV 1500DC-AL *Photovoltaic Aluminum Alloy Cable*

Approvals PPP 11029A PV 1.5KVDC−AL 1×4mm²~10mm²



TECHNICAL DATA

- Rated voltage:AC U_0/U 1.0/1.0 KV，DC 1.5 KV
- Voltage test on completed cable:AC6.5KV/5min，DC15KV/5min
- Ambient temperature:−40℃~+90℃
- The expected period of use is 25 years(Ambiet temperature:−40℃ up to+90℃)
- The permitted short −circuit−temperature referring to a period of 5s is+200℃
- Thermal endurance properties：IEC60216−1
- Bending radius:≥4xD（D<8mm） ≥6xD（D≥8mm）
- Resistance against acid and alkaline solution:IEC60811−404
- Ozone resistance:IEC60811−403
- Ageing properties:IEC60811−401
- Cold bending test :IEC60811−504
- Weathering/UV−resistance:IEC 62930
- Test under fire condition:IEC60332−1−2
- Damp heat test:IEC60068−2−78

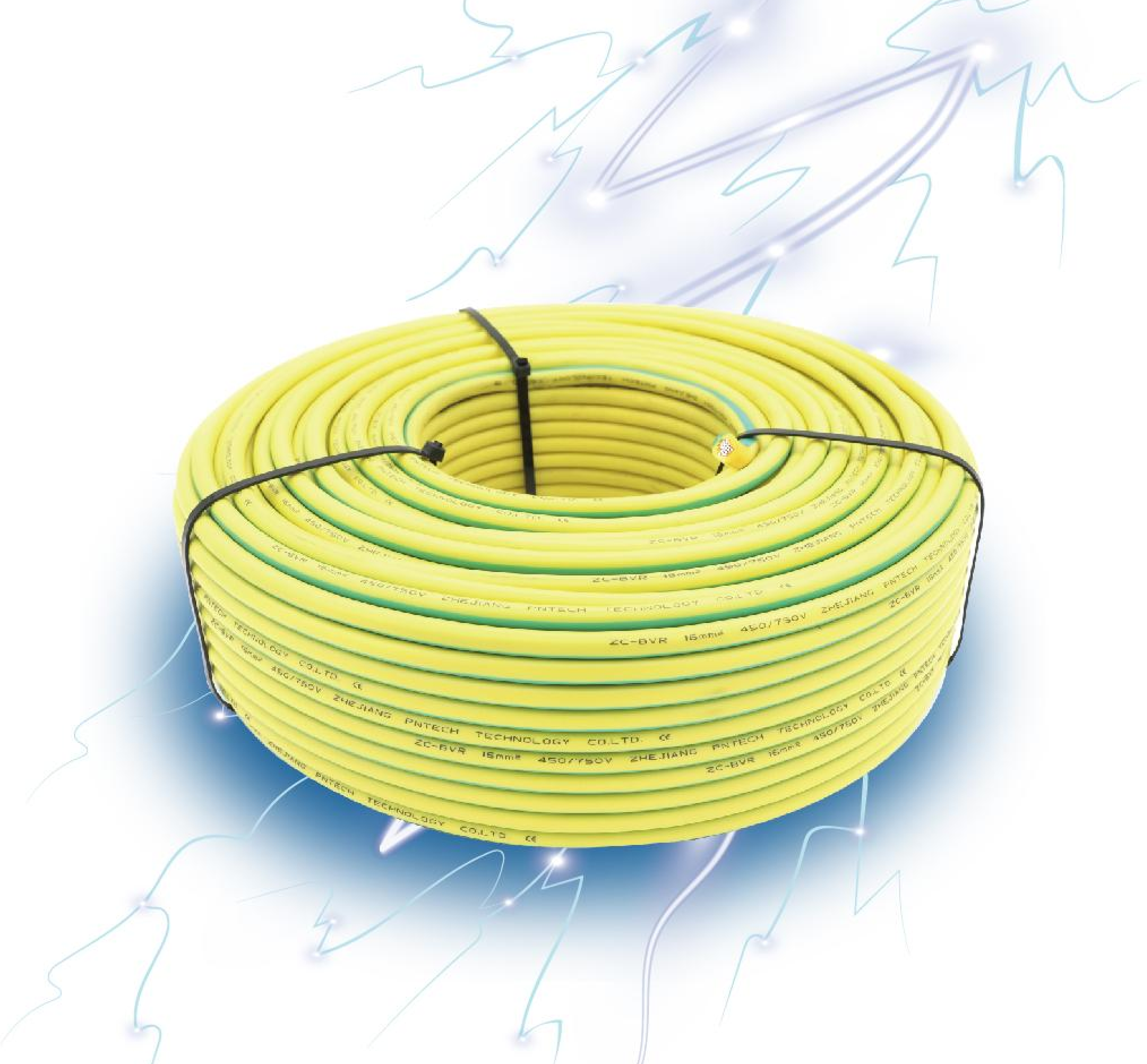
THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (ϕn/mm±0.015)	Conductor stranded (ϕmm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (ϕmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
4	56x0.3	2.6	0.7	0.8	5.6	7.85	30
6	84x0.3	3.2	0.7	0.8	6.4	5.23	39
10	80x0.4	4.2	0.7	0.8	8.3	3.08	51

SAFE AND RELIABLE

Environmental friendly PVC virgin material

Good insulation, scratch/abrasion resistance and good toughness

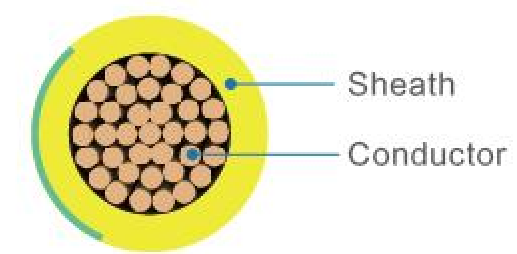


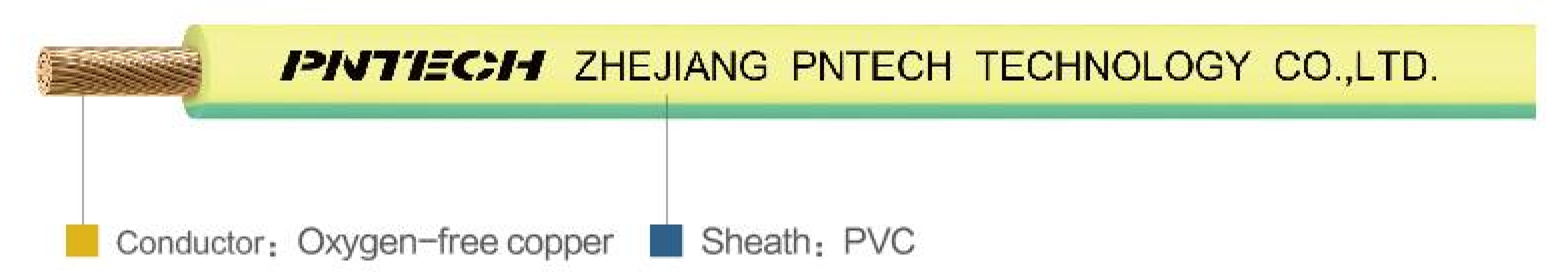
PNTECH

Zhejiang Pntech Technology Co.,Ltd.

CE H07V-R

Approvals CE 1 × 4mm²~35mm²





TECHNICAL DATA

- Rated voltage (V) ：U_0/U450/750V
- Ambient Temperature：−15℃~+70℃，laid at ≥0℃
- Allowable bending radius：≥4xD(D＜25mm)，≥6xD(D≥25mm)
- Short circuit temperature:110℃/5s
- Executive standard：EN50525-2-31

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (ϕn/mm±0.02)	Conductor stranded (ϕmm±0.02)	Sheath mediun thickness (≥mm)	Cable OD (ϕmm±0.2)	Conductor Dc Resistance (20℃ Ω/Km)
4	48x0.3	2.4	0.8	4.2	4.61
6	78x0.3	3.0	0.8	5.1	3.08
10	80x0.39	4.0	1.0	6.5	1.83
16	120x0.39	5.0	1.0	7.6	1.15
25	196x0.39	6.3	1.2	9.2	0.727
35	276x0.39	7.4	1.2	10.3	0.524
50	190x0.55	9.2	1.4	12	0.387

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 tempera−ture resistance, fireproof, anti−ultraviolet

15 YEARS OF QUALITY ADHERING TO THE SAME

MAKE PHOTOVOLTAIC POWER STATIONS SAFER

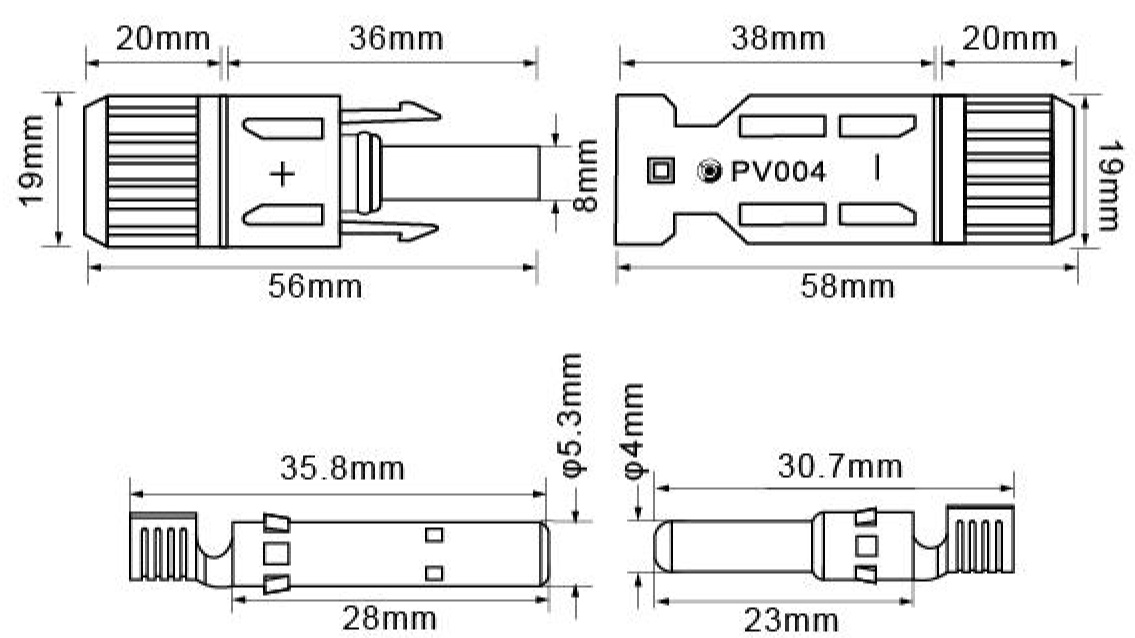
Zhejiang Pntech Technology Co.,Ltd.

PV 004 *Solar PV Connector*

Standard IEC 62852:2014/TÜV

Parameters

- **Type** PV004
- **Rated Voltage** 1000V DC
- **Contact Materials** Tinned copper
- **Rated Current** 30A
- **Standard** IEC 62852:2014
- **Protection Degree** IP67
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** −40℃~+85℃
- **Cable Cross Section Area** 2.5mm²,4mm²,6mm²
- **Insulation Material** PC EXL9330
- **Flame Class** UL94 V−0

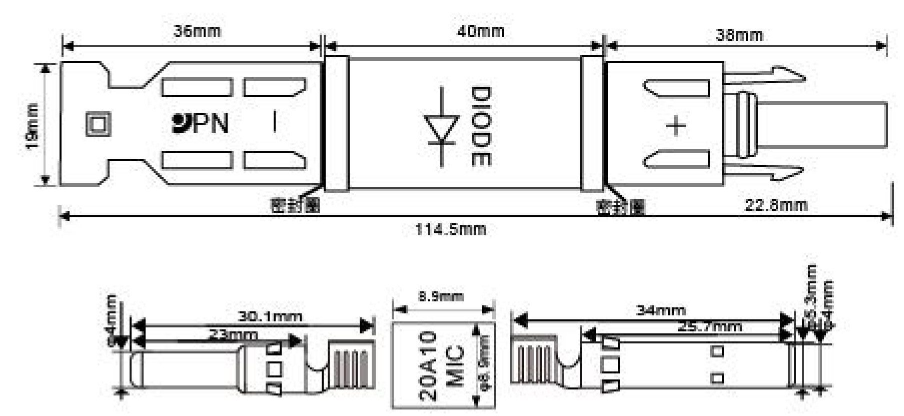


Feature

- The surface is acid−resistant and UV−resistant
- Good heat resistance and cold resistance
- Quality Assurance for 3 years
- TÜV certification
- Suitable for outdoor harsh environment
- Waterproof and dust proof design
- Flame retardant

Diode Connector PV004-D

Standard IEC 62852:2014/CE

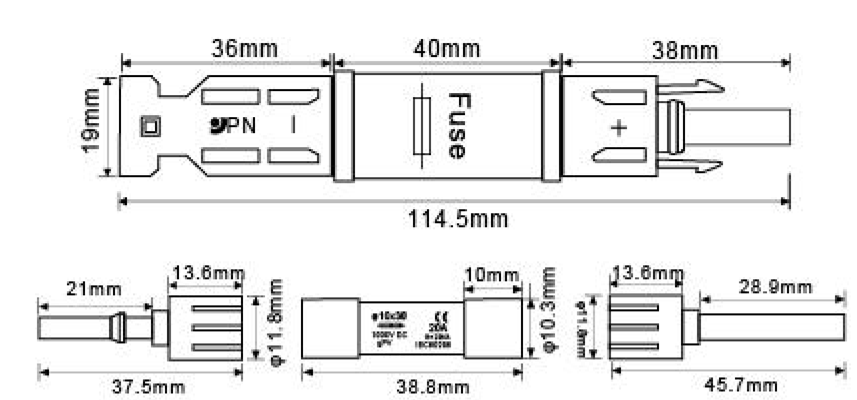


Parameters

- **Type** PV004−D
- **Rated Voltage** 1000V DC
- **Contact Materials** Tinned copper
- **Rated Current** 10A,15A,20A
- **Standard** IEC 62852:2014/CE
- **Protection Degree** IP65
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** −40℃~+85℃
- **Insulation Material** PC EXL9330/PPO
- **Flame Class** UL94 V−0

Fuse Connector PV004-F

Standard IEC 62852:2014/CE

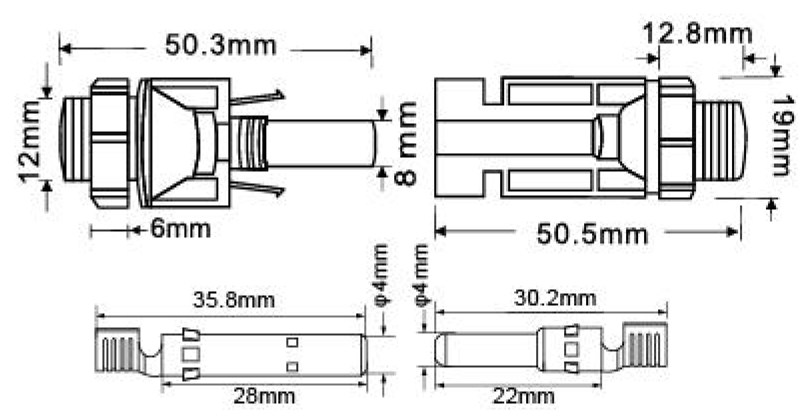


Parameters

- **Type** PV004−F
- **Rated Voltage** 1000V DC
- **Contact Materials** Tinned copper
- **Rated Current** 10A,15A,20A
- **Standard** IEC 62852:2014/CE
- **Protection Degree** IP65
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** −40℃~+85℃
- **Insulation Material** PC EXL9330/PPO
- **Flame Class** UL94 V−0

Plate End Connector PV004-P

Standard IEC 62852:2014/CE

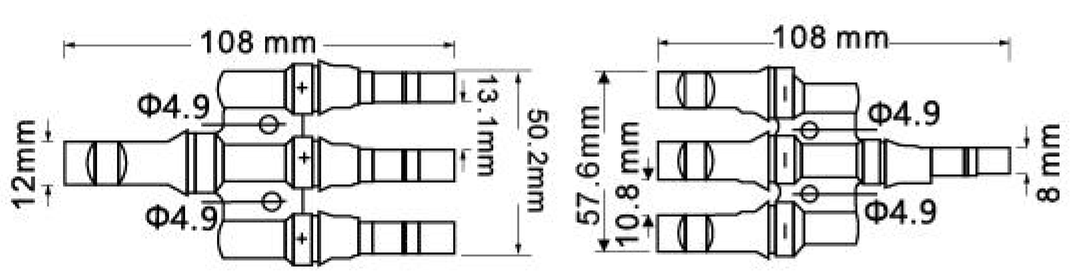


Parameters

Type	PV004–P
Rated Voltage	1000V DC
Contact Materials	Tinned copper
Rated Current	30A
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Thread Size	12mm
Insulation Material	PPO
Flame Class	UL94 V-0

3 to 1 T Branch Connector PV004-T3

Standard IEC 62852:2014/CE

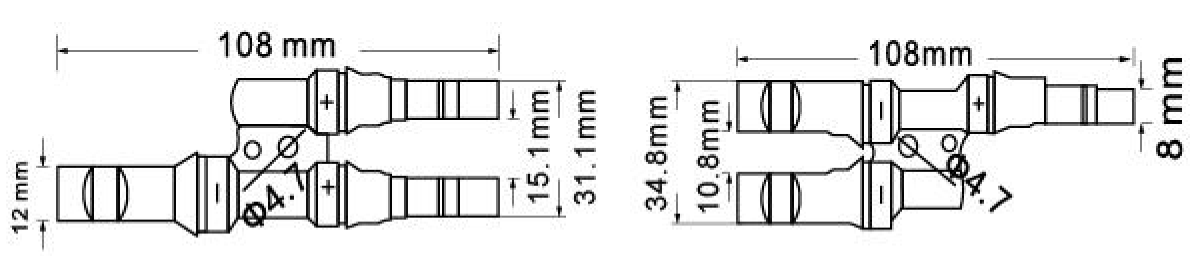


Parameters

Type	PV004–T3
Rated Voltage	1000V DC
Contact Materials	Tinned copper
Rated Current	30A
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Adapter Connector	PV004/PV005
Insulation Material	PPO
Flame Class	UL94 V-0

2 to 1 T Branch Connector PV004-T2

Standard IEC 62852:2014/CE

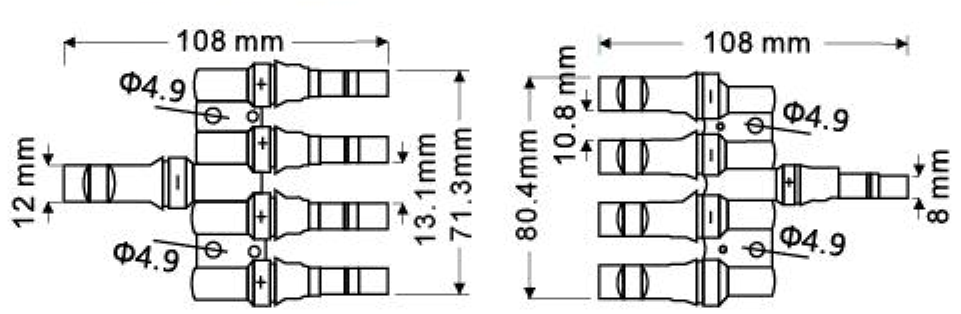


Parameters

Type	PV004–T2
Rated Voltage	1000V DC
Contact Materials	Tinned copper
Rated Current	30A
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Adapter Connector	PV004/PV005
Insulation Material	PPO
Flame Class	UL94 V-0

4 to 1 T Branch Connector PV004-T4

Standard IEC 62852:2014/CE

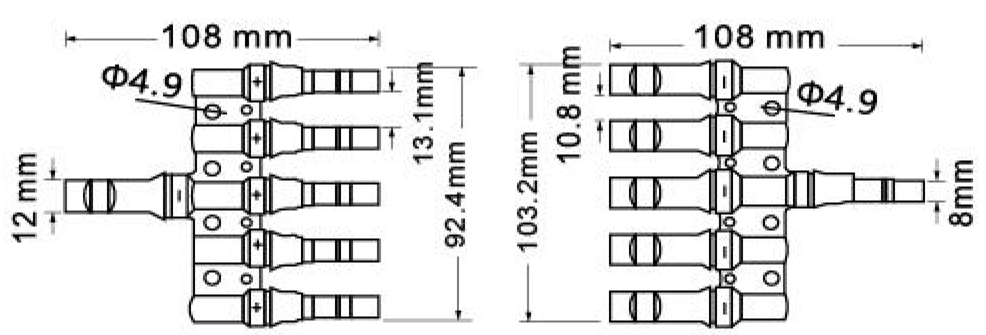


Parameters

Type	PV004–T4
Rated Voltage	1000V DC
Contact Materials	Tinned copper
Rated Current	30A
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Adapter Connector	PV004/PV005
Insulation Material	PPO
Flame Class	UL94 V-0

5 to 1 T Branch Connector *PV004-T5*

Standard IEC 62852:2014/CE

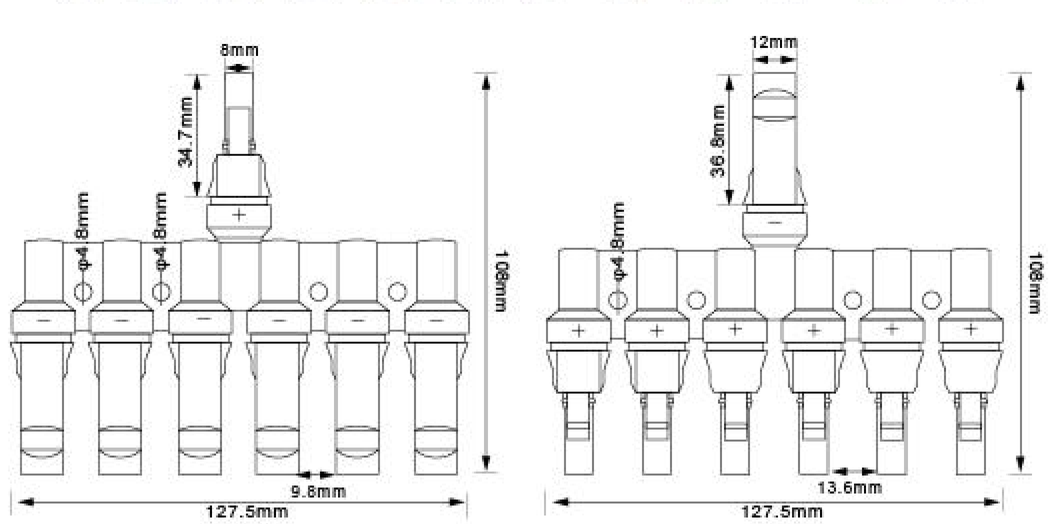


Parameters

Type	PV004-T5
Rated Voltage	1000V DC
Contact Materials	Tinned copper
Rated Current	30A
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Adapter Connector	PV004/PV005
Insulation Material	PPO
Flame Class	UL94 V-0

6 to 1 T Branch Connector *PV004-T6*

Standard IEC 62852:2014/CE

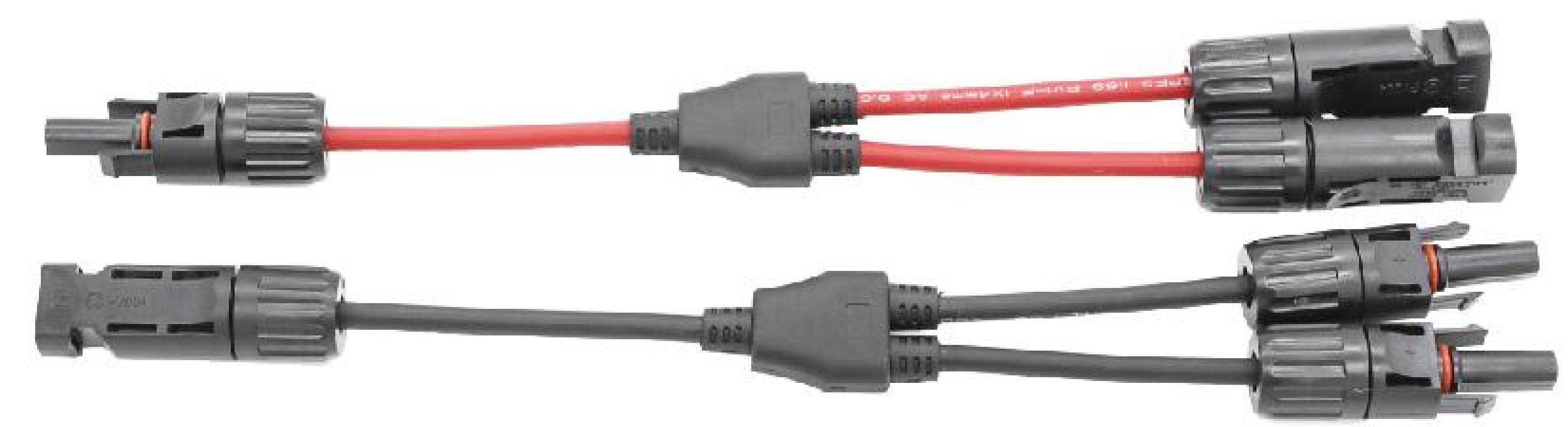


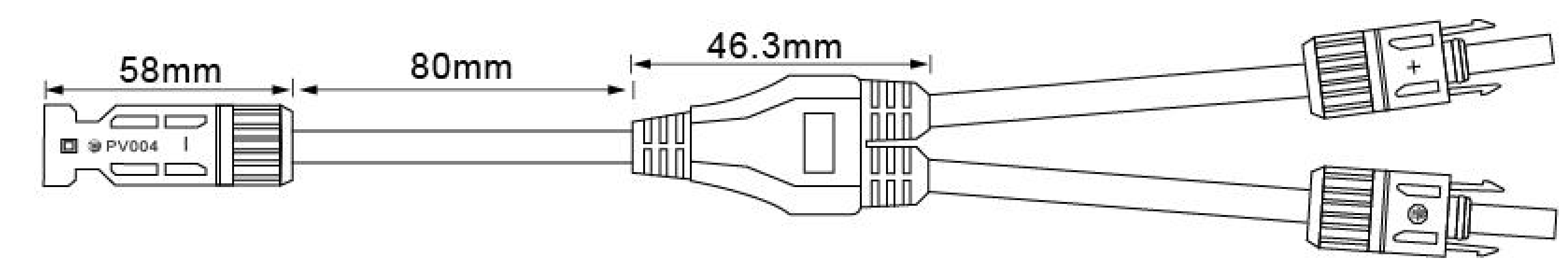
Parameters

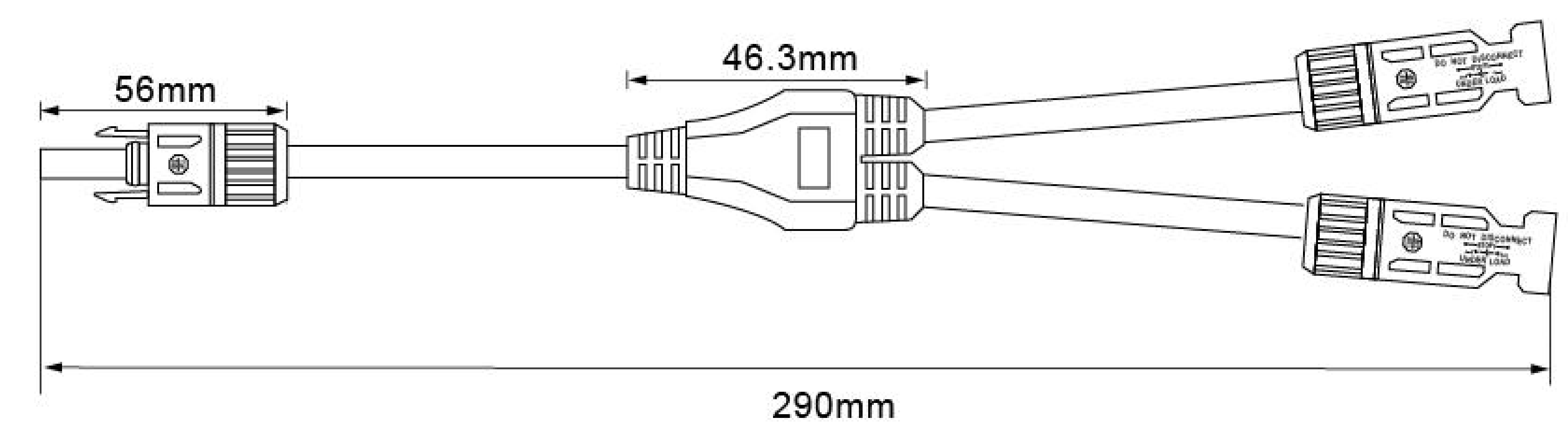
Type	PV004-T6
Rated Voltage	1000V DC
Contact Materials	Tinned copper
Rated Current	30A
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Adapter Connector	PV004/PV005
Insulation Material	PPO
Flame Class	UL94 V-0

2 to 1 Y Branch Connector *PV004-2T1*

Standard IEC 62852:2014/CE





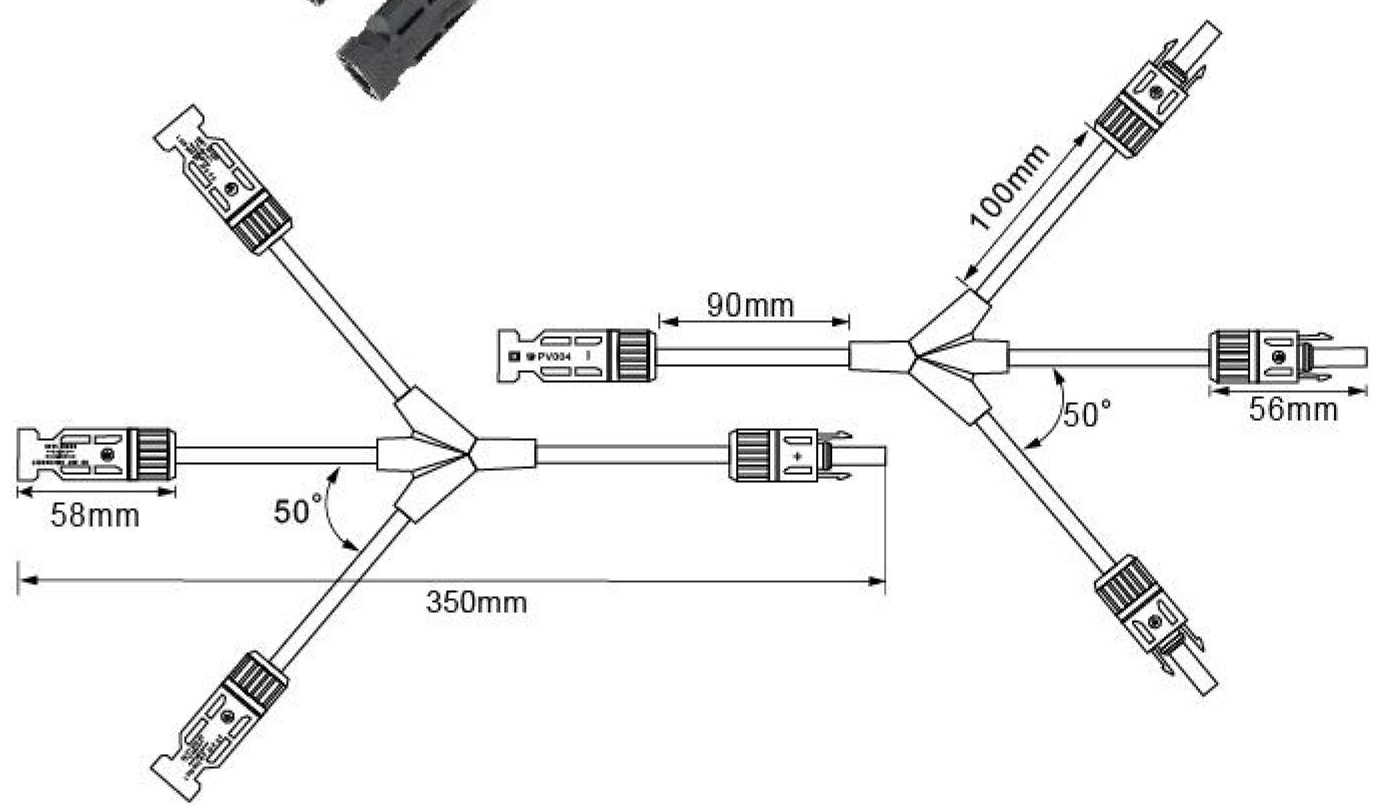


Parameters

Type	PV004-2T1	Contact Materials	Tinned copper
Rated Voltage	1000V DC	Insulation Material	PC EXL9330/XLPO
Rated Current	30A	Flame Class	UL94 V-0
Protection Degree	IP67	Input Cable	PV Cable 1×4mm²
Contact Resistance	≤0.5mΩ	Output Cable	PV Cable 1×4mm²
Ambient Temperature	-40℃~+85℃		

3 to 1 Y Branch Connector PV004-3T1

Standard IEC 62852:2014/CE

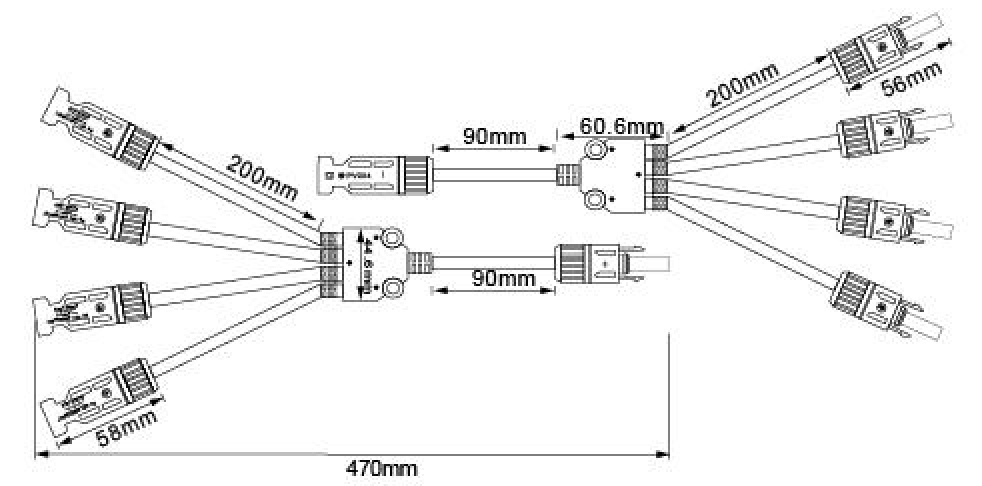


Parameters

- **Type** PV004-3T1
- **Rated Voltage** 1000V DC
- **Rated Current** 30A
- **Protection Degree** IP67
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** -40℃~+85℃
- **Contact Materials** Tinned copper
- **Insulation Material** PC EXL9330/XLPO
- **Flame Class** UL94 V-0
- **Input Cable** PV Cable 1×4mm²
- **Output Cable** PV Cable 1×4mm²

4 to 1 Y Branch Connector PV004-4T1

Standard IEC 62852:2014/CE

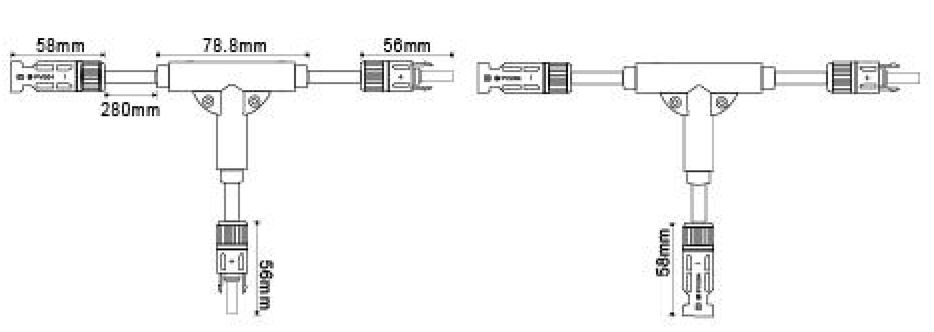


Parameters

- **Type** PV004-4T1
- **Rated Voltage** 1000V DC
- **Rated Current** 30A
- **Protection Degree** IP67
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** -40℃~+85℃
- **Contact Materials** Tinned copper
- **Insulation Material** PC EXL9330/XLPO
- **Flame Class** UL94 V-0
- **Input Cable** PV Cable 1×4mm²
- **Output Cable** PV Cable 1×6mm²

X to 1 Y Branch Connector PV004-XT1

Standard IEC 62852:2014/CE



Parameters

- **Type** PV004-XT1
- **Rated Voltage** 1000V DC
- **Rated Current** 30A
- **Protection Degree** IP67
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** -40℃~+85℃
- **Contact Materials** Tinned copper
- **Insulation Material** PC EXL9330/XLPO
- **Flame Class** UL94 V-0
- **Input Cable** PV Cable 1×4/6mm²
- **Output Cable** PV Cable 1×4/6mm²

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 ADHERING TO THE SAME

MAKE PHOTOVOLTAIC POWER STATIONS SAFER

PNTECH

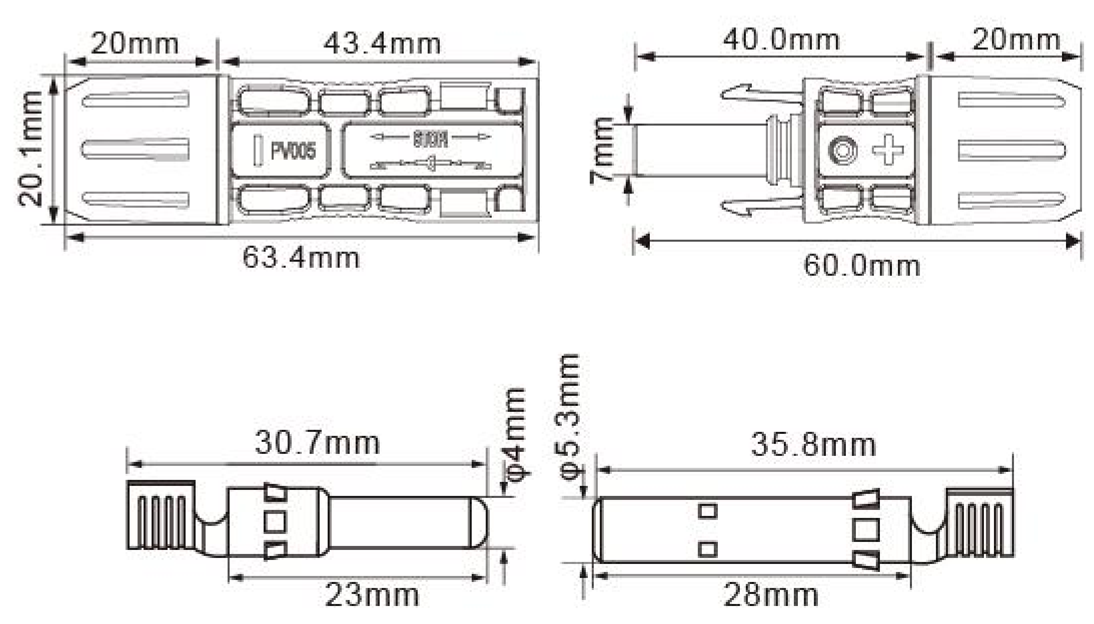
Zhejiang Pntech Technology Co.,Ltd.

PV 005 *Solar PV Connector*

Standard IEC 62852:2014/TÜV

Parameters

Type	PV005
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	30A
Standard	IEC 62852:2014
Protection Degree	IP68
Contact Resistance	≤0.5mΩ
Ambient Temperature	−40℃~+85℃
Cable Cross Section Area	2.5mm²,4mm²,6mm²
Insulation Material	PV40Z
Flame Class	UL94 V−0

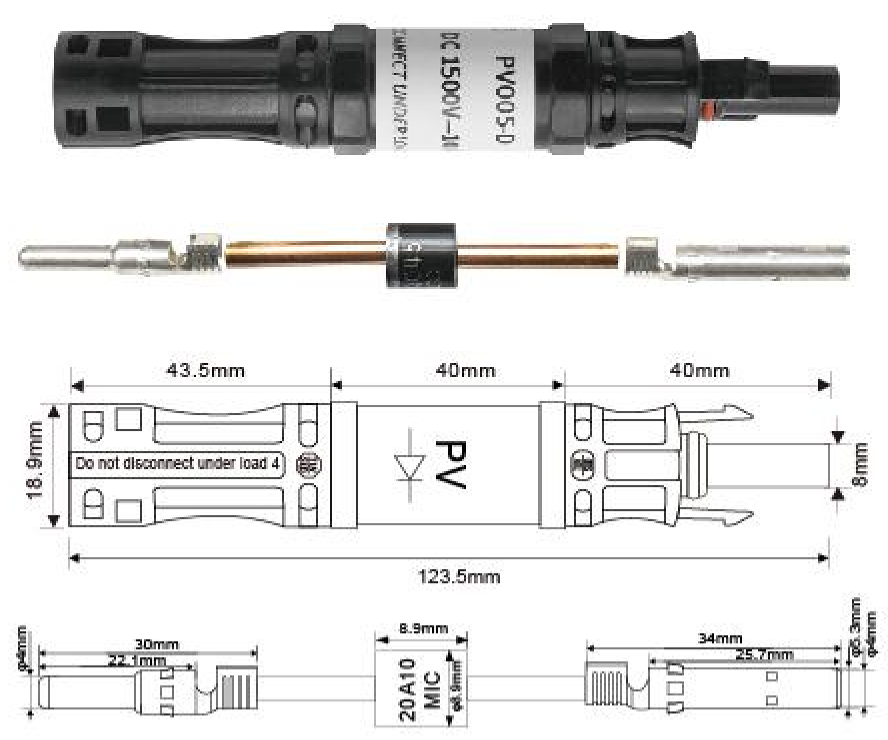


Feature

- Lower contact resistance
- Good heat resistance and cold resistance
- Quality Assurance for 3 years
- TÜV certification
- Suitable for outdoor harsh environment
- Waterproof and dust proof design

Diode Connector PV005-D

Standard IEC 62852:2014/CE



Parameters

Type	PV005−D
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	10A,15A,20A
Standard	IEC 62852:2014/CE
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	−40℃~+85℃
Insulation Material	PPO
Flame Class	UL94 V−0

Plate End Connector PV005-P

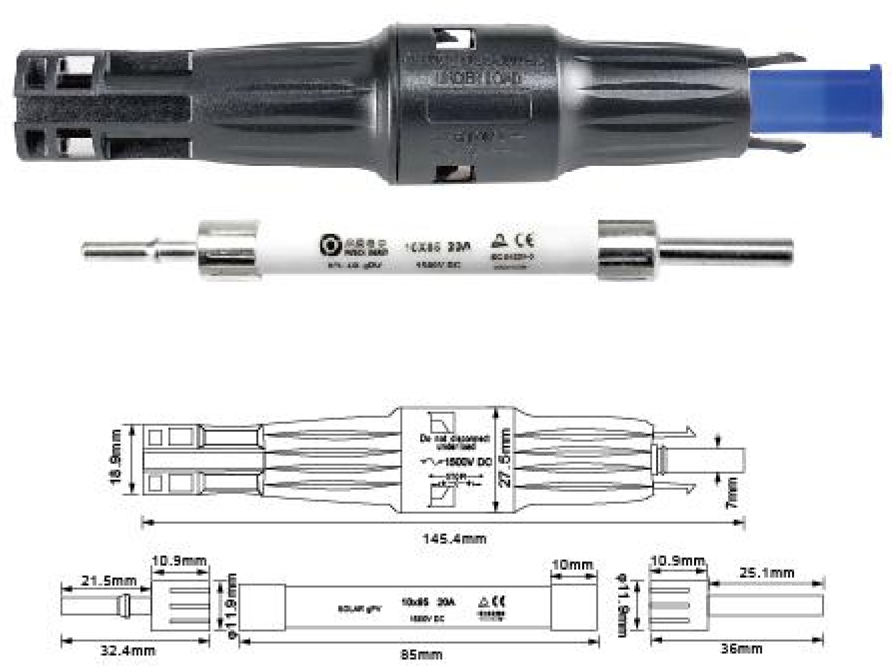
Standard IEC 62852:2014/CE

Parameters

Type	PV005−P
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	30A
Standard	IEC 62852:2014/CE
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	−40℃~+85℃
Thread Size	12mm
Insulation Material	PPO
Flame Class	UL94 V−0

Fuse Connector PV005-FA

Standard IEC 62852:2014/CE

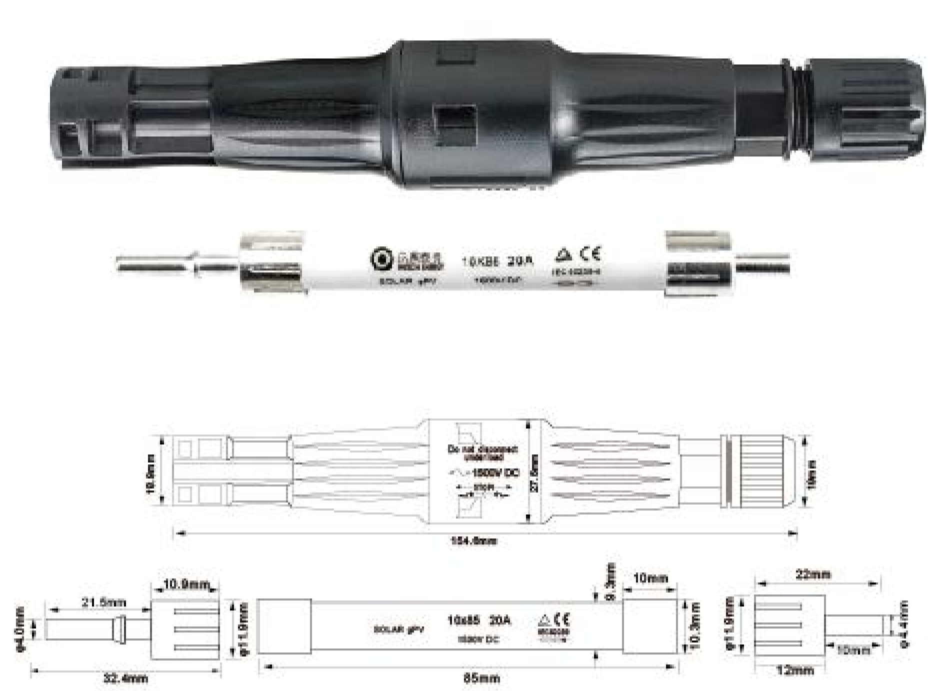


Parameters

Type	PV005-FA
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	15A,20A,25A,30A
Standard	IEC 62852:2014/CE
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Insulation Material	PPO
Flame Class	UL94 V-0

Fuse Connector PV005-FB

Standard IEC 62852:2014/CE

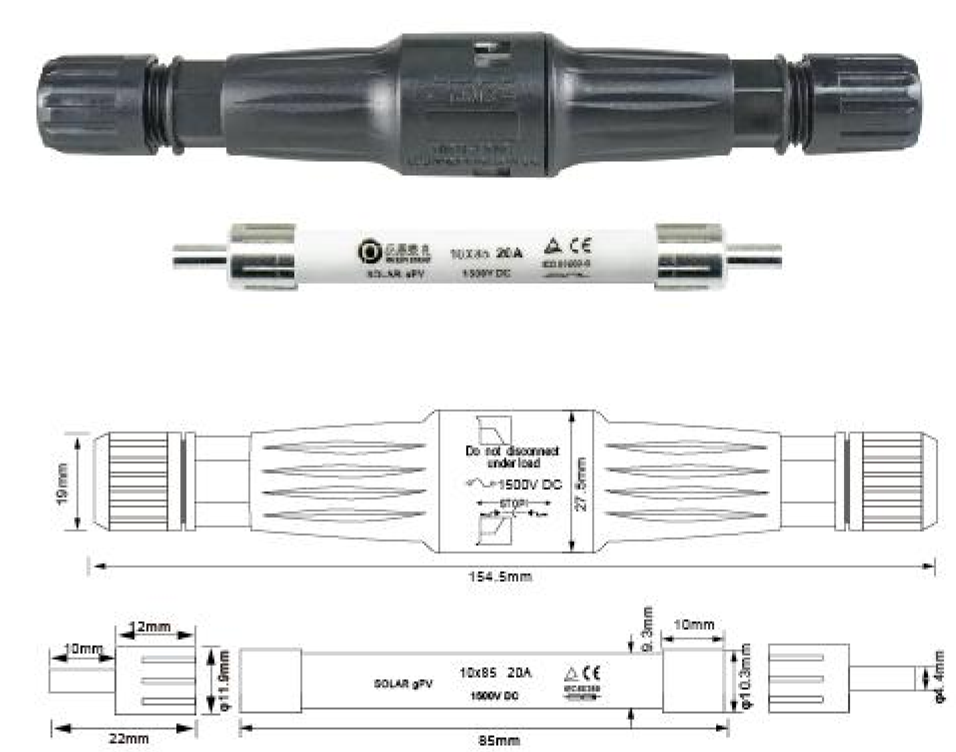


Parameters

Type	PV005-FB
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	15A,20A,25A,30A
Standard	IEC 62852:2014/CE
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Insulation Material	PPO
Flame Class	UL94 V-0

Fuse Connector PV005-FC

Standard IEC 62852:2014/CE

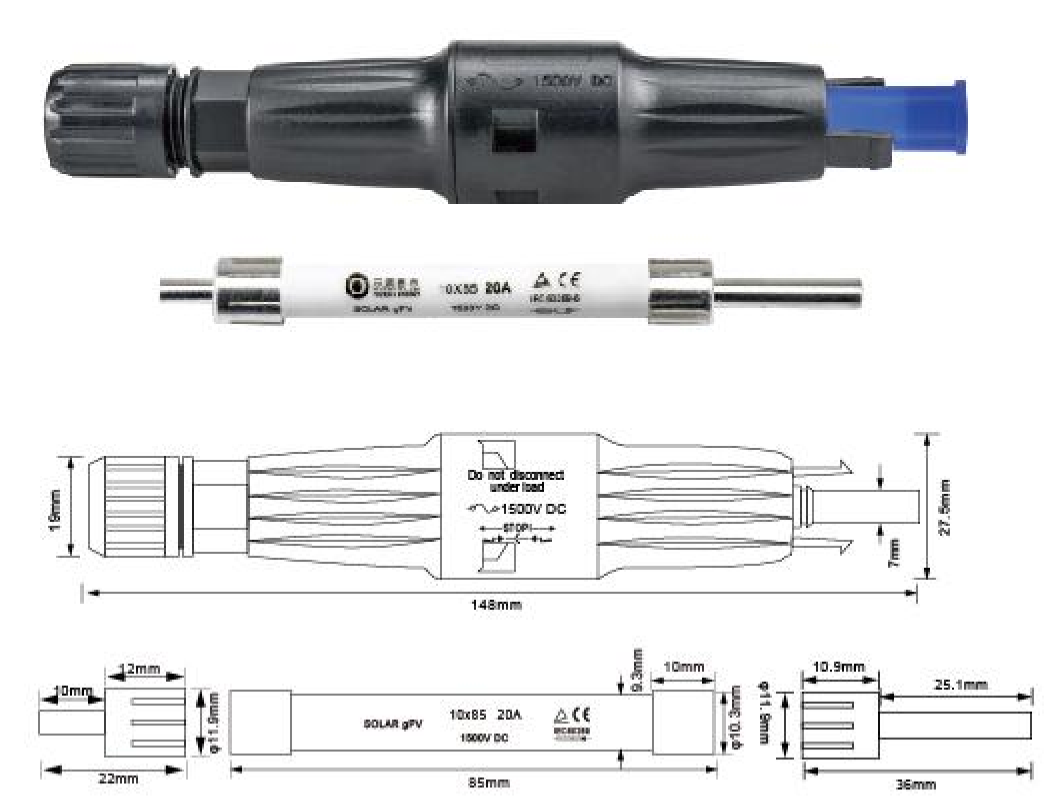


Parameters

Type	PV005-FC
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	15A,20A,25A,30A
Standard	IEC 62852:2014/CE
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Insulation Material	PPO
Flame Class	UL94 V-0

Fuse Connector PV005-FD

Standard IEC 62852:2014/CE

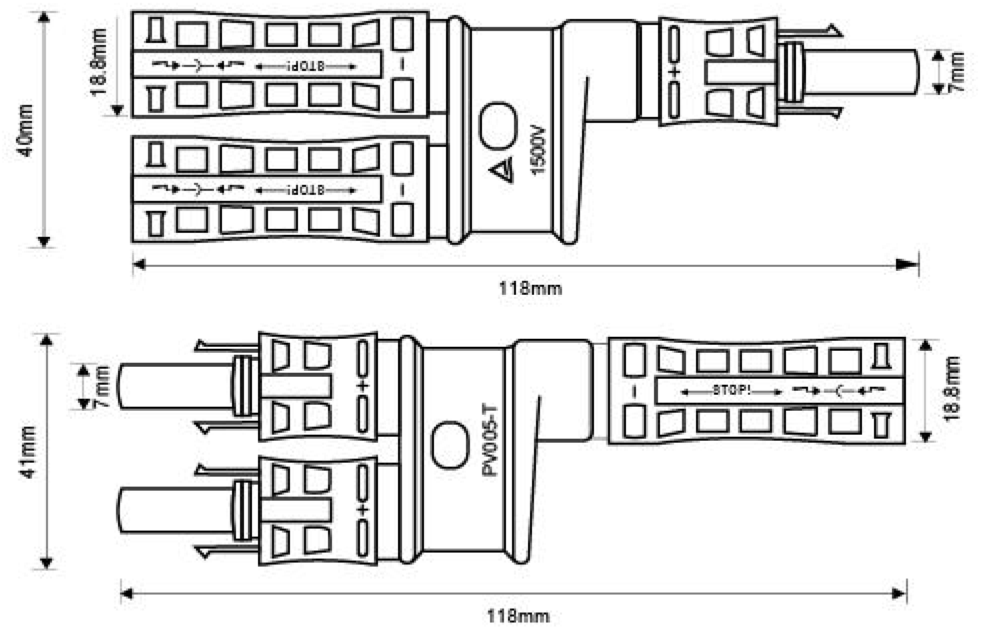


Parameters

Type	PV005-FD
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	15A,20A,25A,30A
Standard	IEC 62852:2014/CE
Protection Degree	IP65
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Insulation Material	PPO
Flame Class	UL94 V-0

2 to 1 T Branch Connector PV005-T

Standard IEC 62852:2014/CE

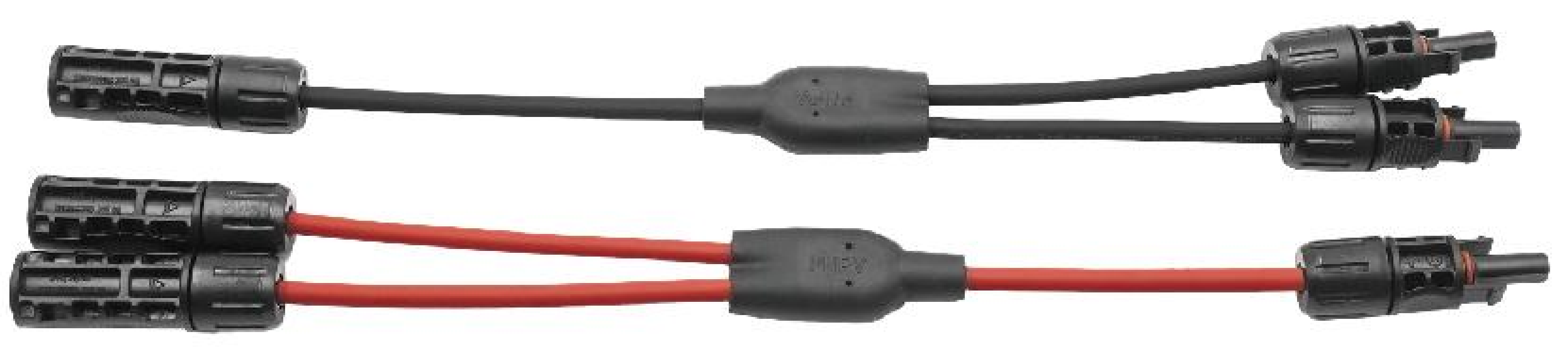


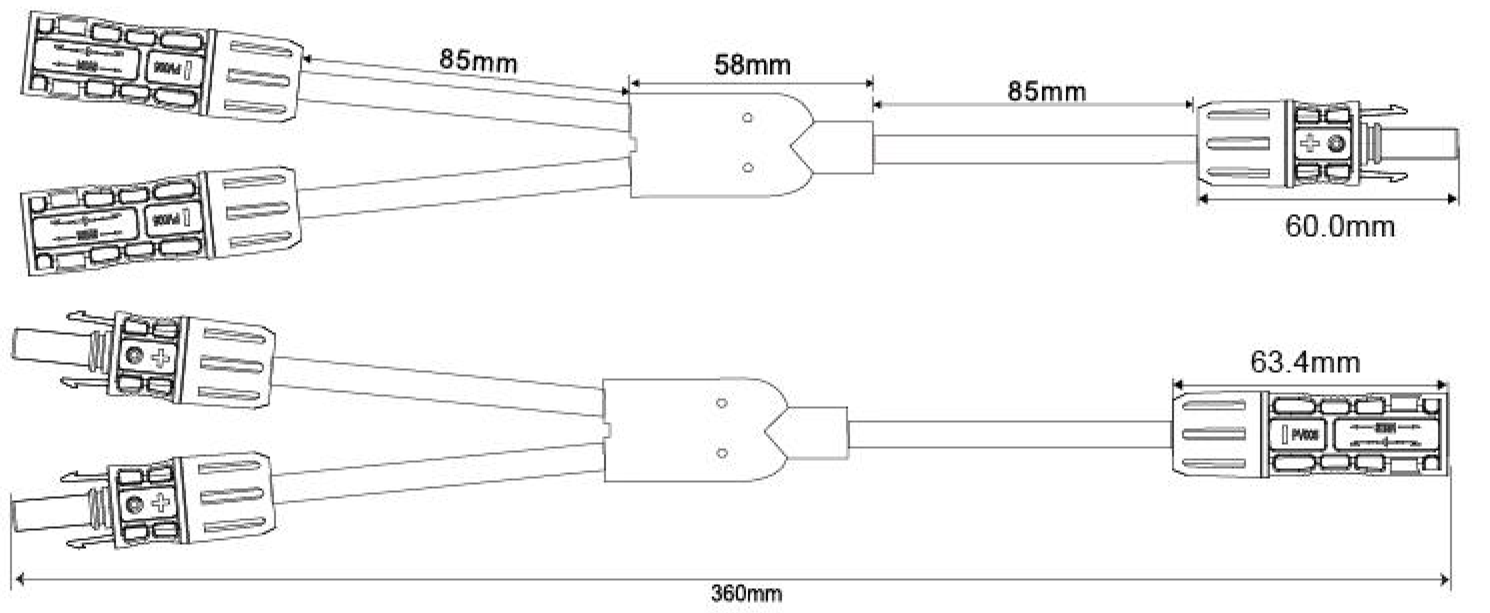
Parameters

- **Type** PV005-T
- **Rated Voltage** 1500V DC
- **Rated Current** 30A
- **Protection Degree** IP68
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** -40℃~+85℃
- **Contact Materials** Tinned copper
- **Adapter Connector** PV004/PV005
- **Insulation Material** PPO
- **Flame Class** UL94 V-0

2 to 1 Y Branch Connector PV005-2T1

Standard IEC 62852:2014/CE



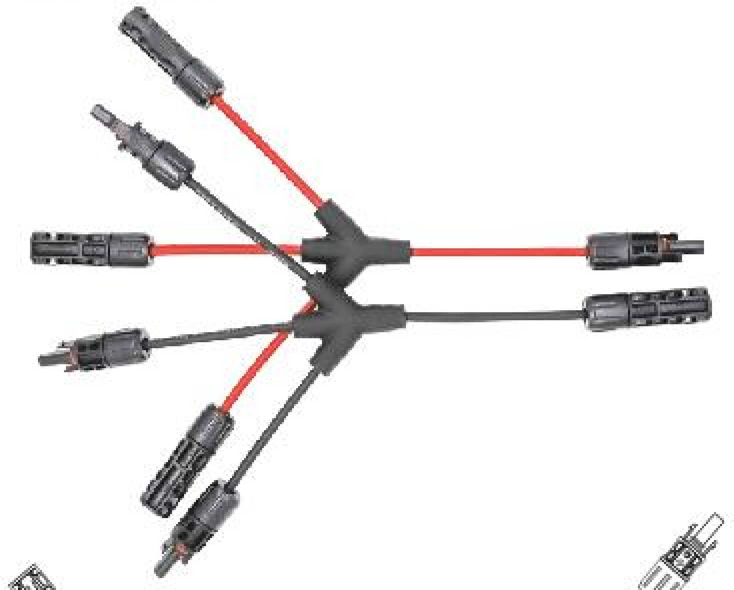


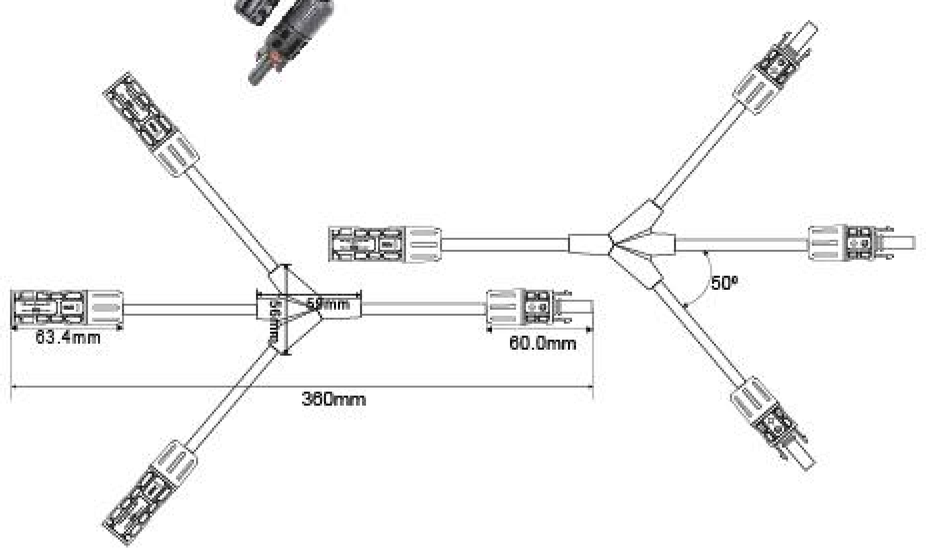
Parameters

- **Type** PV005-2T1
- **Rated Voltage** 1500V DC
- **Rated Current** 30A
- **Protection Degree** IP68
- **Contact Resistance** ≤0.5mΩ
- **Ambient Temperature** -40℃~+85℃
- **Contact Materials** Tinned copper
- **Insulation Material** PV40Z/XLPO
- **Flame Class** UL94 V-0
- **Input Cable** PV Cable 1×4mm²
- **Output Cable** PV Cable 1×4mm²

3 to 1 Y Branch Connector *PV005-3T1*

Standard IEC 62852:2014/CE



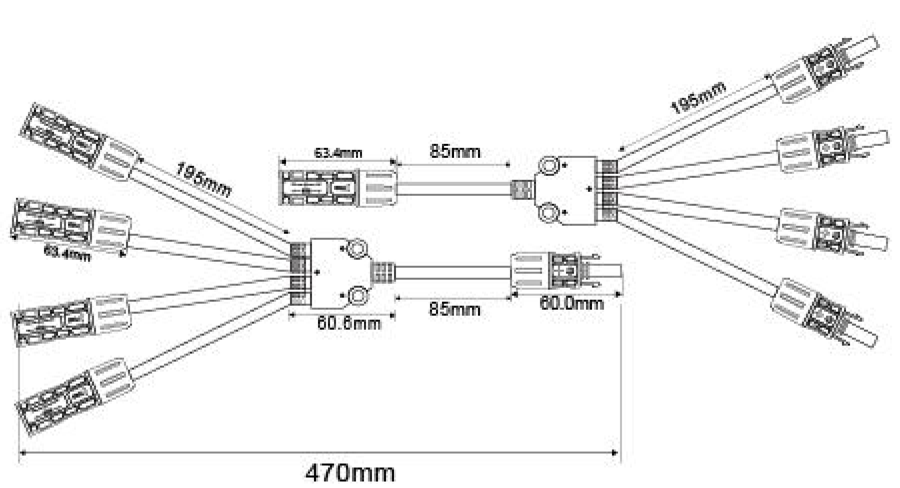


Parameters

- Type: PV005-3T1
- Rated Voltage: 1500V DC
- Rated Current: 30A
- Protection Degree: IP68
- Contact Resistance: ⩽0.5mΩ
- Ambient Temperature: -40℃~+85℃
- Contact Materials: Tinned copper
- Insulation Material: PV40Z /XLPO
- Flame Class: UL94 V-0
- Input Cable: PV Cable 1×4mm²
- Output Cable: PV Cable 1×4mm²

4 to 1 Y Branch Connector *PV005-4T1*

Standard IEC 62852:2014/CE



Parameters

- Type: PV005-4T1
- Rated Voltage: 1500V DC
- Rated Current: 30A
- Protection Degree: IP68
- Contact Resistance: ⩽0.5mΩ
- Ambient Temperature: -40℃~+85℃
- Contact Materials: Tinned copper
- Insulation Material: PV40Z /XLPO
- Flame Class: UL94 V-0
- Input Cable: PV Cable 1×4mm²
- Output Cable: PV Cable 1×6mm²

1500V Series *Solar PV Connector*


PV005


PV005-FA
Matching connector


PV005-FA
Matching connector


PV005-FB
Matching connector


PV005-FC


PV005-FC


PV005-FB
Examples of finished products


PV005-FD
Matching connector


PV005-F
Internal structure

FOUR REASONS FOR CHOOSING

SOLAR EXTENSION CABLE

Safe and reliable materials: The connectors and cables use PC EXL9330 and XLPO/XLPE for the housing and tinned copper for 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

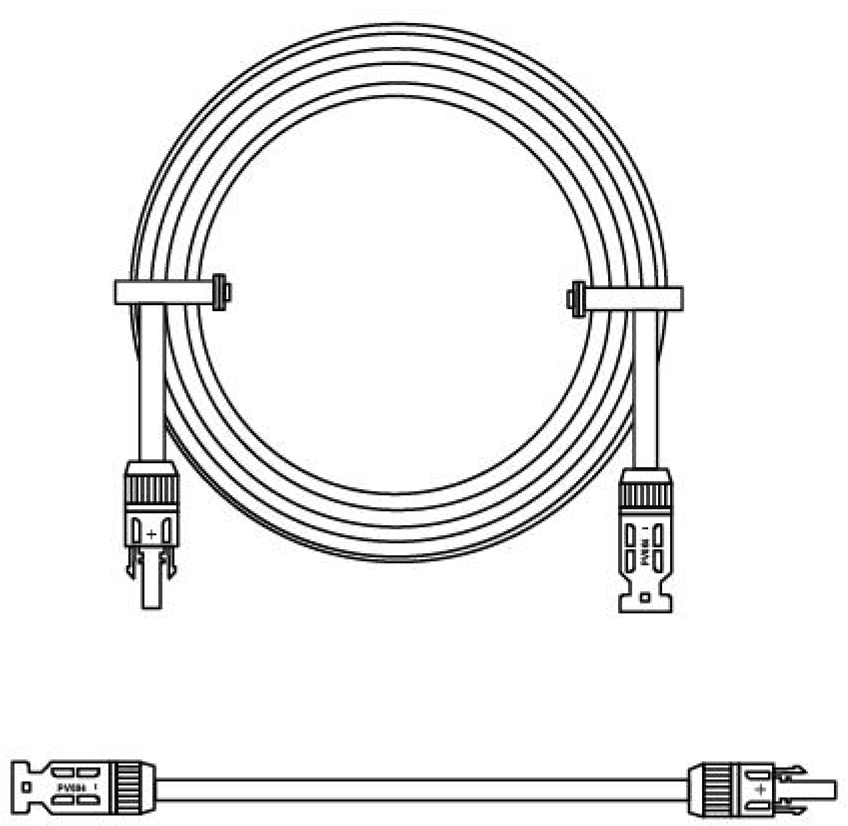
More widely applicable: usually used for connection the solar panel DC output and solar panel output, or extension

PNTECH

Zhejiang Pntech Technology Co.,Ltd.

Solar Extension Cable With Connector
Double Ends

Standard IEC 62852:2014/CE

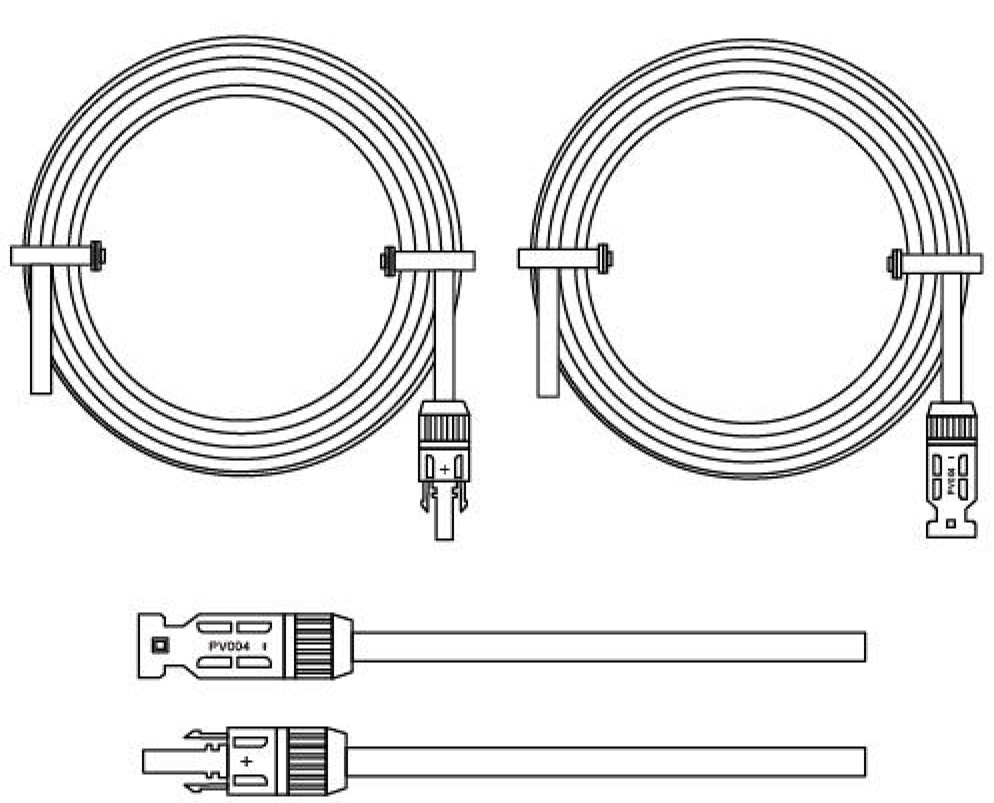


Parameters

Type	DC-DC
Rated Voltage	1000V/1500V DC
Rated Current	30A
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Contact Materials	Tinned 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 End

Standard IEC 62852:2014/CE



Parameters

Type	DC-00
Rated Voltage	1000V/1500V DC
Rated Current	30A
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Contact Materials	Tinned 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

Custom Size

Double Ends

Single End

- Battery Brass Buckle

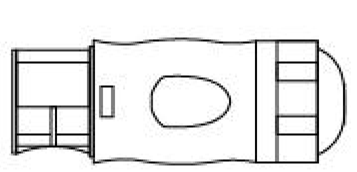
- O Type DT

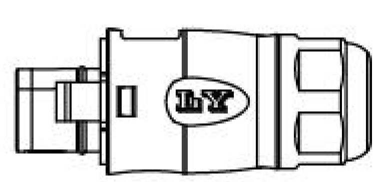
- Anderson Joint

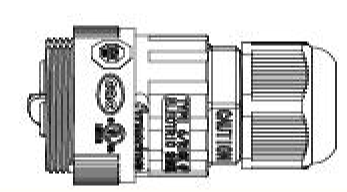
- Solar Street Light

VDE

Approvals VDE H07RN-F 3×1.0mm²~3×2.5mm²





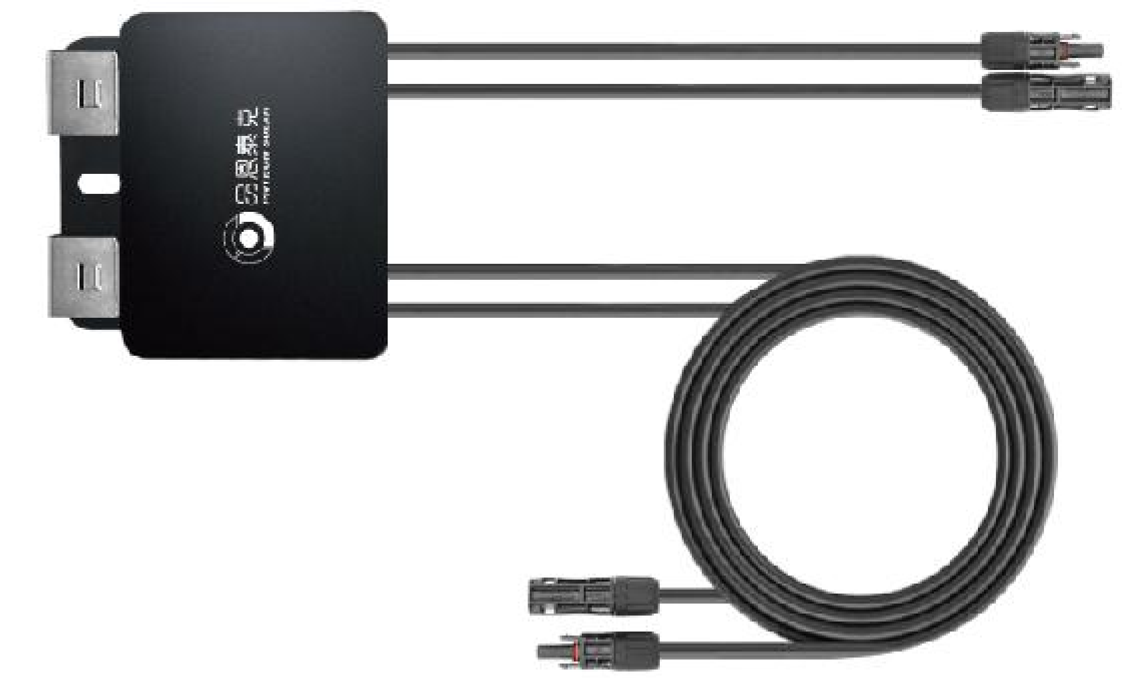


PV AC CONNECTORS

Type	BC01	LY	EP030-2224-00
Rated Voltage	250V AC	250V AC	250V AC
Rated Current	16A	16A	16A
Contact Resistance	≤0.5mΩ	≤0.5mΩ	≤10mΩ
Ambient Temperature	-40℃~+60℃	-40℃~+60℃	-40℃~+60℃
Contact Materials	Tinned copper	Tinned copper	Tinned copper
Insulation Material	PC/PPO	/	PA66
Cable specifications	3x1.0/1.5/2.5mm²	3x1.5/2.5mm²	3x1.0/1.5/2.5mm²
Protection Degree	IP68	IP68	IP68

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (φn/mm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (φmm±0.2)
3G 1.0	32x0.2	0.8	1.4	7.3
3G 1.5	48x0.2	0.8	1.6	10.3
3G 2.5	50x0.25	0.9	1.8	11.2



PRODUCT FEATURES

Safety

- Mitigates the mismatch loss of PV module in its service life
- Twenty-five years

Convenience

- Clip-type design, Reliable fastening
- Easy disassembly and maintenance

High Efficiency

- Compatible with various PV module
- Designed to work in the complex and changeable installation sites
- 5-25% increase in power generation

TECHNICAL DATA

YH005-600W

Maximum system voltage	1500V	Input cable length	500mm
Maximum Rated Input DC Power	600W	Output cable length	1000mm
Operation voltage range	7~60V	PV connector Model	PV005
Maximum input current	16A	Terminal compatibility	Compatible with MC4 connectors
Maximum output voltage	42V	Class of protection	IP65/IP68
Overload protection condition	18A or 150℃	Ambient temperature range	-40℃~+85℃
Dimension	103*105*21mm	Ambient humidity range	0~100%RH
Weight	0.5kg	Peak efficiency	99.5%
Cable specification	1x4mm²	Warranty period	Twenty-five years

Solar Tool Kits (Model)

C4K-L

Crimping Pliers(Big) Wire Cutters
Screw Driver × 2 Nipper Pliers
Cutting and stripping pliers Connector Spanner

C4K-S

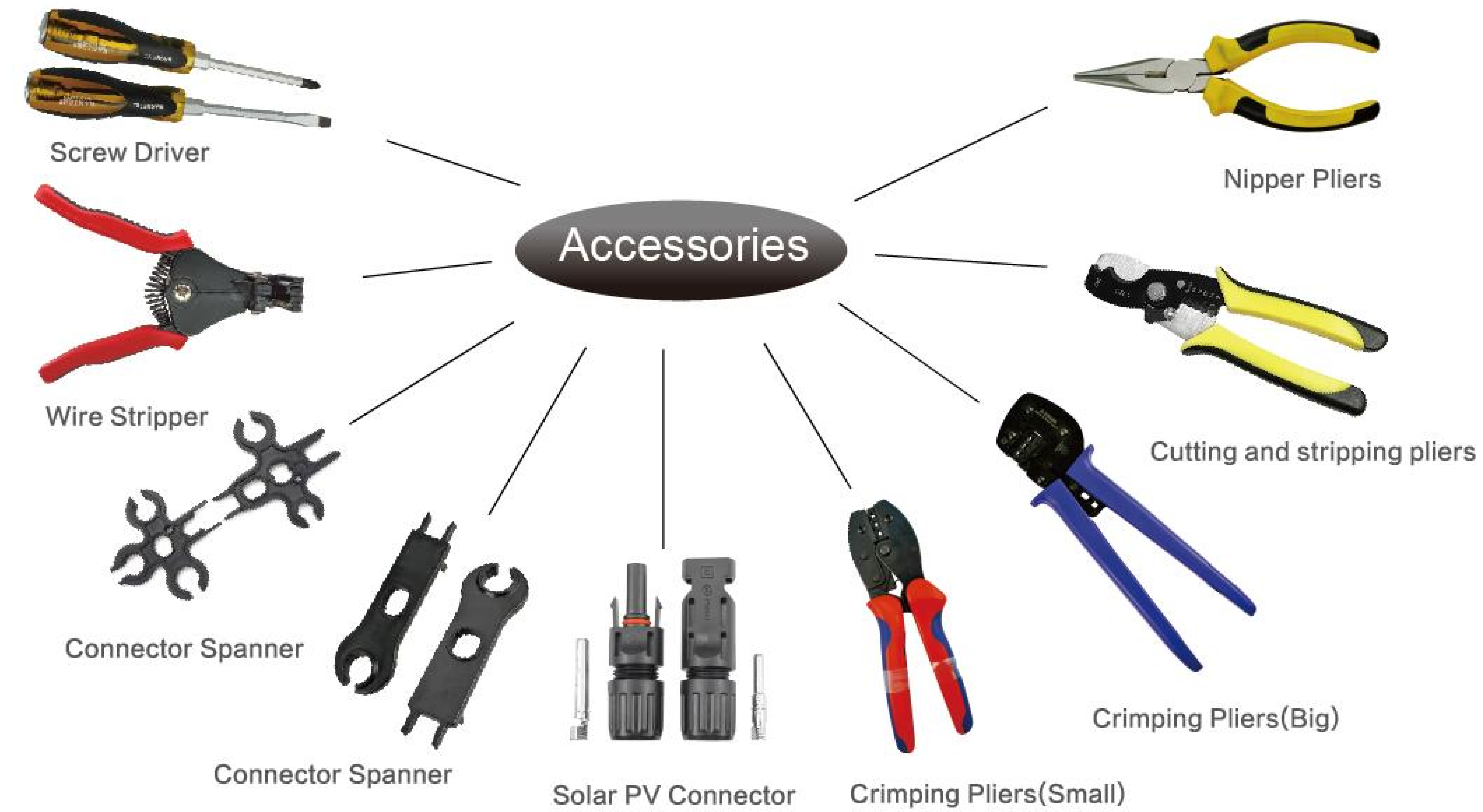
Crimping Pliers(Small) Connector Spanner
Wire Stripper Cutting and stripping pliers

C4K-C

Crimping Pliers(Big) Wire Cutters
Wire Stripper Connector Spanner

C4K-D

Crimping Pliers(Small) Wire Cutters
Wire Stripper Connector Spanner



Steps To Use

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

Application Cases


▶ PNTECH Plant Project


▶ Hebei Chengde Ground Power Station

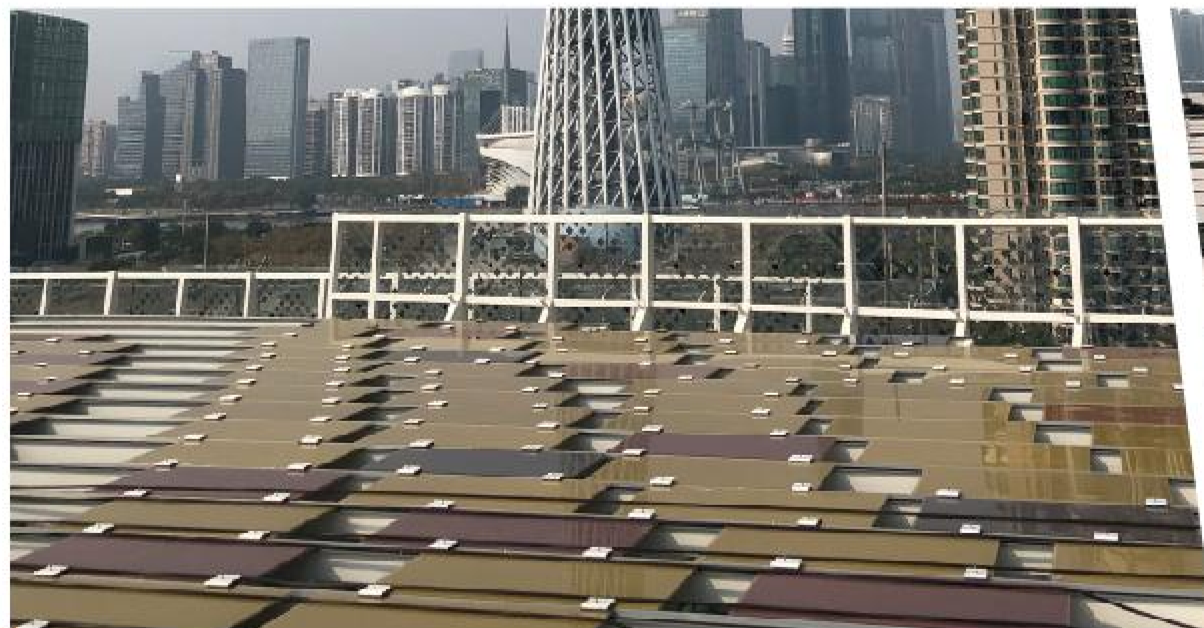

▶ Ningbo Shenzhou Textile Factory Roof Project

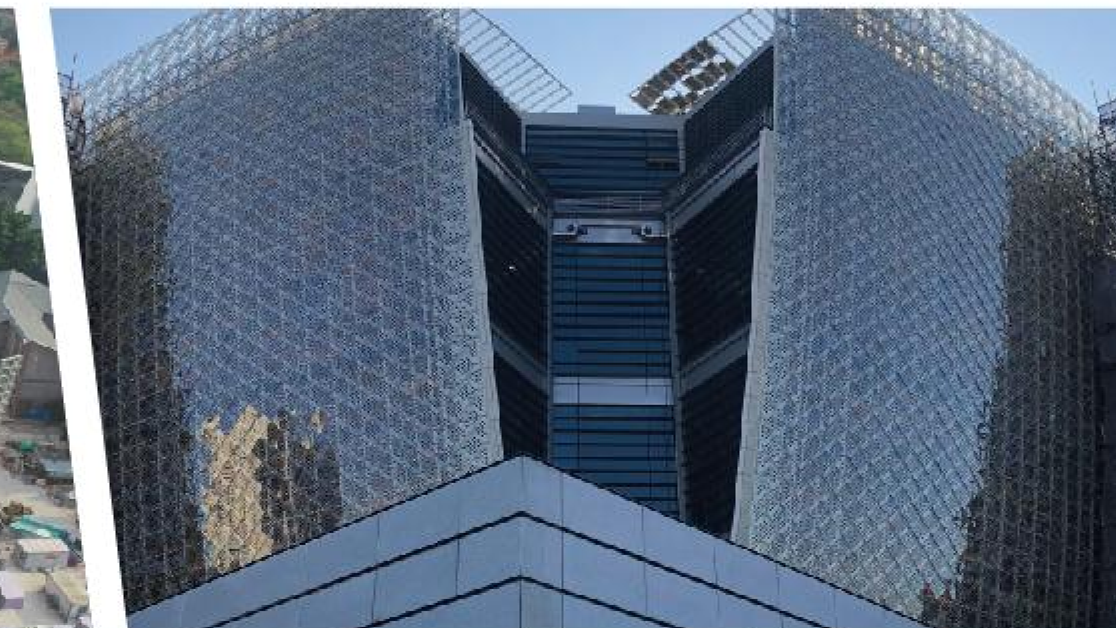

▶ Ningbo Xiangshan 5.7 MWp Project


▶ Shaoxing 2MWp Surface Power Station


▶ Hainan Province, Qinghai Province Project

Application Cases



▶ 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

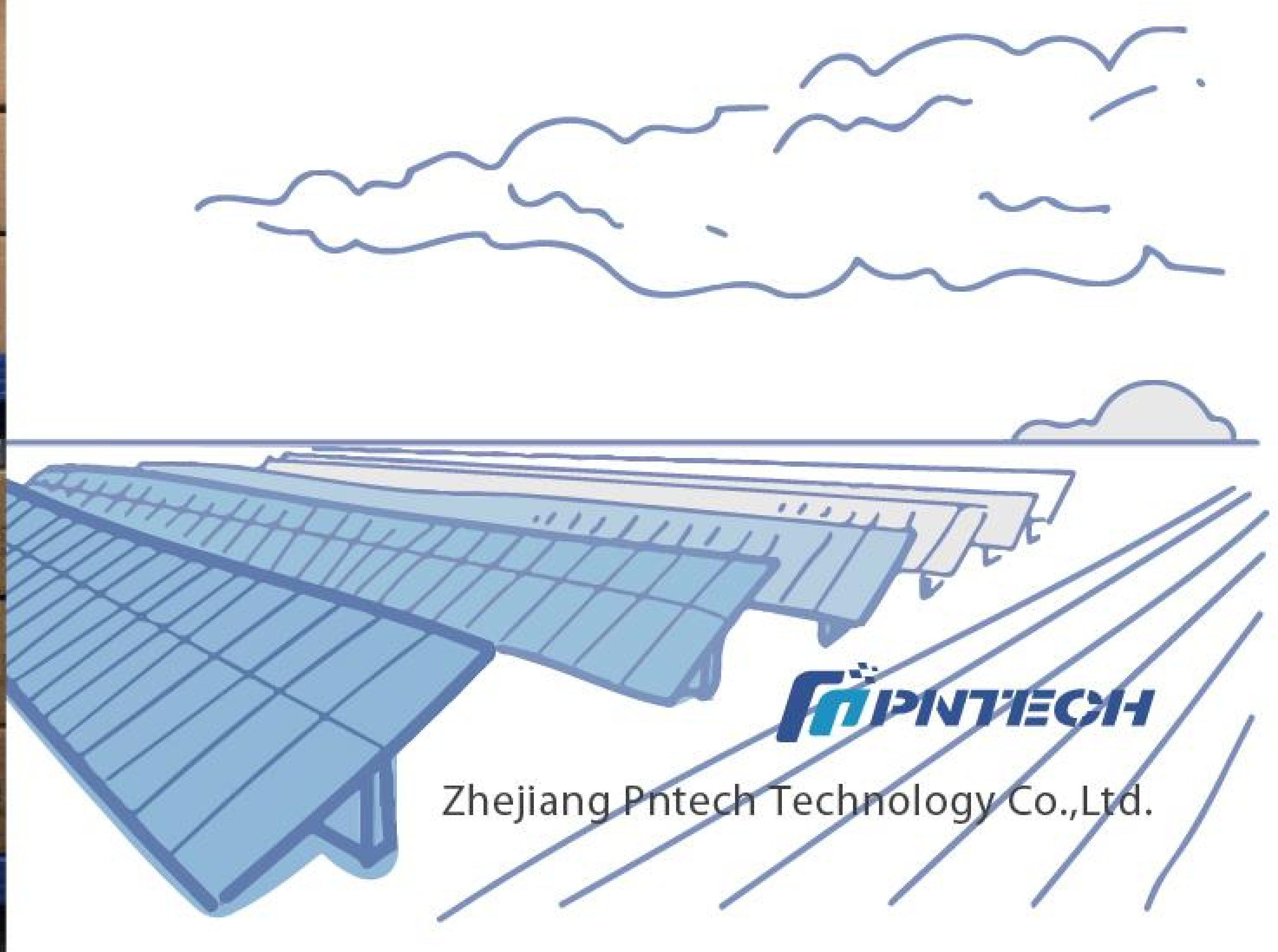
▶ Ningxia Project

INTEGRITY MANAGEMENT

QUALITY RESPONSIBILITY

BRING QUALITY HOME

ADD SUNSHINE TO PHOTOVOLTAIC



PNTECH

Zhejiang Pntech Technology Co.,Ltd.