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FOCUS ON ENTERPRISE WECHAT

PNTECH

ENVIRONMENTAL FRIENDLY

LOW CARBON

ENERGY

Zhejiang Pntech Technology Co.,Ltd.

COMPANY PROFILE

Zhejiang Pntech Technology Co.,Ltd.

Pntech, founded in 2011, is a high-tech enterprise specializing in solar accessories production, sales, research, and development, and services. The company's business includes solar photovoltaic cables, connectors, BIPV wiring harness adapters, and photovoltaic link applications. Pntech offers one-stop solar energy solutions, high-quality photovoltaic cable and accessories products, and installation and energy support programs.

As a professional solar photovoltaic power generation manufacturer, Pntech has received several accolades, including National High-tech Enterprise, member ofScience and Technology Innovation Committee, and the title "Entrepreneurial Star" of Zhejiang Province. The company has also passed multiple domestic and international certifications, including ISO 9001, ISO 14001, ISO 45001, EU CE, TUV-IEC 62852, TUV, China Quality CQC, and EU CPR. With 6 automatic production lines and 8 injection molding machines, Pntech has a monthly production capacity of 20,000 kilometers of photovoltaic cables and 2 million sets of connectors, exporting products to over 30 countries and regions across Europe, Southeast Asia, the Middle East, Australia, South America, and more.

01

HONOR OF PNTECH

QUALIFICATION CERTIFICATIONS

02

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

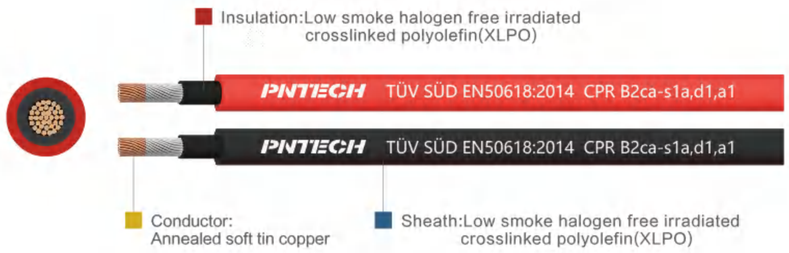
Zhejiang Pntech Technology Co.,Ltd.

H1Z2Z2-K

TÜV CE CPR RoHS

Approvals TÜV SÜD EN50618:2014 CPR B2ca-s1a,d1,a1

- UV resistance
- Highly Flame Retardant
- Low smoke, no halogen
- High and low temperatureresistance
- Anti-ageing



TECHNICAL DATA

Conductor: Annealed soft tin copper

Sheath/Insulation: XLPO

Rated voltage: AC U_0/U 1.0/1.0KV，DC1.5KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Approvals:

EN50618:2014

Temperature rating:

Ambient temperature: −40℃~+90℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Testing Standards:

Cold bending test: EN60811−504

Test under fire condition: EN60332−1−2

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

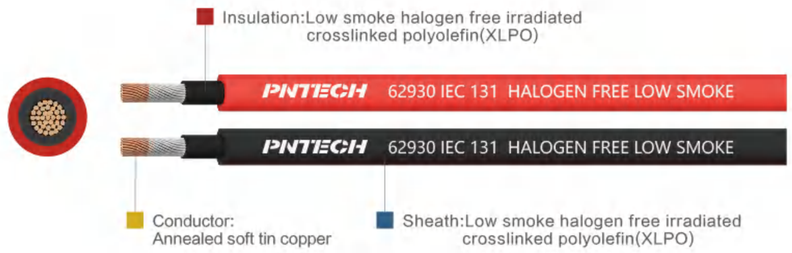
Cross section (mm^2)	Conductor construction (φn/mm±0.015)	Conductor stranded (φmm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (φmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
1.5	22x0.285	1.5	0.7	0.8	4.6	13.7	24
2.5	36x0.285	2.0	0.7	0.8	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	6.1	3.39	57
10	80x0.39	4.0	0.7	0.8	7.1	1.95	79
16	120x0.39	5.0	0.7	0.9	8.6	1.24	107
25	196x0.39	6.3	0.9	1.0	10.6	0.795	142
35	276x0.39	7.4	0.9	1.0	12.4	0.565	176

62930 IEC131

TÜVRheinland CE RoHS

Approvals TÜV Rheinland IEC 62930 131

- UV resistance
- Highly Flame Retardant
- Low smoke, no halogen
- High and low temperatureresistance
- Anti-ageing



TECHNICAL DATA

Conductor: Annealed soft tin copper

Sheath/Insulation: XLPO

Rated voltage: AC U_0/U 1.0/1.0KV，DC1.5KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Approvals:

IEC 62930:2017

Temperature rating:

Ambient temperature: −40℃~+90℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Testing Standards:

Cold bending test: IEC 60811−504

Test under fire condition: EN 60332−1−2

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm^2)	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	6.1	3.39	58
10	80x0.39	4.0	0.7	0.8	7.1	1.95	80
16	120x0.39	5.0	0.7	0.9	8.6	1.24	107
25	196x0.39	6.3	0.9	1.0	10.6	0.795	138
35	276x0.39	7.4	0.9	1.0	12.4	0.565	171

62930 IEC131

TÜVRheinland CE RoHS

Approvals TÜV Rheinland 62930 IEC 131 Double parallel solar cable

- UV resistance
- Highly Flame Retardant
- Low smoke, no halogen
- High and low temperatureresistance
- Anti-ageing

TECHNICAL DATA

Conductor: Annealed soft tin copper

Sheath/Insulation: XLPO

Rated voltage: AC U_0/U 1.0/1.0KV，DC1.5KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Approvals:

IEC 62930:2017

Temperature rating:

Ambient temperature: −40℃~+90℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Testing Standards:

Cold bending test: IEC 60811−504

Test under fire condition: EN 60332−1−2

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

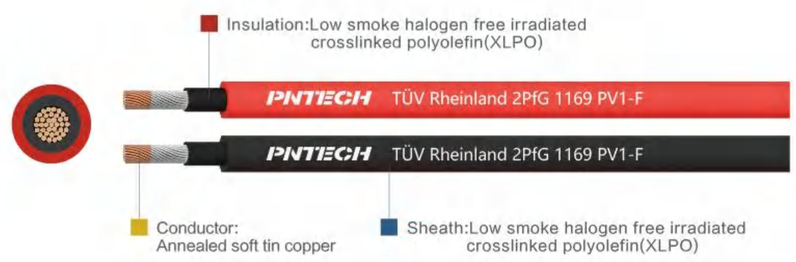
Cross section (mm²)	Conductor construction (∮n/mm±0.015)	Conductor stranded (∮mm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (∮mm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
2x2.5	36x0.285	2.0	0.7	0.8	5.1×10.5	8.21	33
2x4	56x0.285	2.4	0.7	0.8	5.5×11.8	5.09	45
2x6	84x0.285	3.0	0.7	0.8	6.1×12.8	3.39	58
2x10	80x0.39	4.0	0.7	0.8	7.1×15	1.95	80

PV1-F

TÜVRheinland CE RoHS

Approvals TÜV Rheinland 2PfG 1169

- UV resistance
- Highly Flame Retardant
- Low smoke, no halogen
- High and low temperatureresistance
- Anti-ageing



TECHNICAL DATA

Conductor: Annealed soft tin copper

Sheath/Insulation: XLPO

Rated voltage: AC U_0/U 0.6/1.0KV，DC1.0KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Approvals:

2 PfG 1169 / 08.07

Temperature rating:

Ambient temperature: −40℃~+90℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Testing Standards:

Cold bending test: EN60811−1−4

Test under fire condition: EN 60332−1−2

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

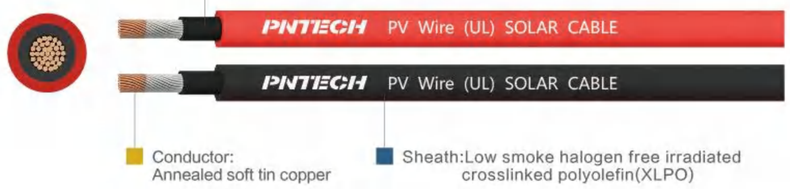
Cross section (mm²)	Conductor construction (∮n/mm±0.015)	Conductor stranded (∮mm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (∮mm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
1.5	22x0.285	1.5	0.5	0.5	4.3	13.7	24
2.5	36x0.285	2.0	0.5	0.5	4.8	8.21	33
4	56x0.285	2.4	0.5	0.5	5.1	5.09	44
6	84x0.285	3.0	0.5	0.5	5.9	3.39	57
10	80x0.39	4.0	0.5	0.5	6.9	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

CE RoHS

Approvals UL4703 PV 16AWG~2AWG

UV resistance
Highly Flame Retardant
Low smoke, no halogen
High and low temperatureresistance
Anti-ageing



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)

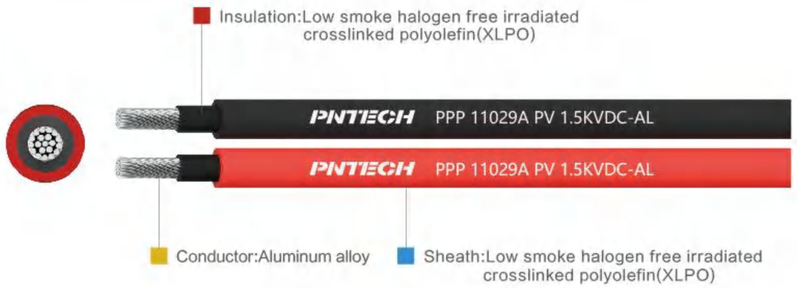
AWG	Nominal Area	Conductor constuction (ϕ n/mm ± 0.02)	1000V and 2000V Cable OD (ϕ mm ± 0.02)	Conductor MAX. Resistance AT 20℃ (Ω/km)
16	1.31	18 × 0.29	5	14.6
14	2.08	32 × 0.29	5.7	8.96
12	3.31	48 × 0.29	6.3	5.64
10	5.261	78 × 0.29	6.8	3.546
8	8.367	68 × 0.38	7.8	2.23
6	13.3	116 × 0.38	8.8	1.403
4	21.15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

PV 1500DC-AL

TÜV SÜD CE RoHS

Approvals PPP 11029A PV 1.5KVDC-AL Photovoltaic Aluminum Alloy Cable

UV resistance
Highly Flame Retardant
Low smoke, no halogen
High and low temperatureresistance
Anti-ageing



TECHNICAL DATA

Conductor: Aluminum alloy
Sheath/Insulation: XLPO
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
Approvals:
PPP 11029A:2019

Temperature rating:
Ambient temperature: -40℃~+90℃
The permitted short -circuit-temperature referring to a period of 5s is+200℃
Testing Standards:
Cold bending test: IEC 60811-504
Test under fire condition: EN 60332-1-2

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm^2)	Conductor construction (ϕ n/mm ± 0.015)	Conductor stranded (ϕ mm ± 0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (ϕ mm ± 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

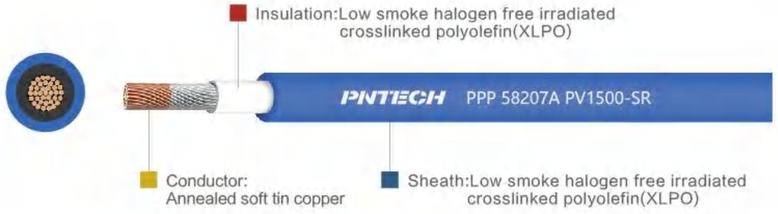
PV1500-SR

CE RoHS

Approvals PPP 58207A

AD8 Submersion

- UV resistance
- Highly Flame Retardant
- Low smoke, no halogen
- High and low temperatureresistance
- Anti-ageing
- Salt Spray Testing



TECHNICAL DATA

Conductor: Annealed soft tin copper

Sheath/Insulation: XLPO

Rated voltage: AC U_0/U 1.0/1.0KV，DC1.5KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Approvals:

EN50618:2014

Temperature rating:

Ambient temperature: −40℃~+90℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Testing Standards:

Cold bending test: EN60811−504

Test under fire condition: EN60332−1−2

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

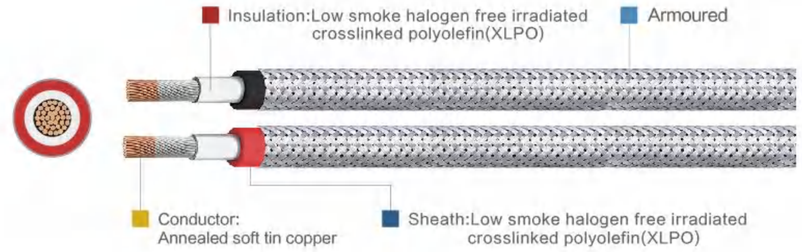
Cross section (mm²)	Conductor construction (ϕn/mm±0.015)	Conductor stranded (ϕmm±0.02)	Insulation mediun thickness (≥mm)	Sheath mediun thickness (≥mm)	Cable OD (ϕmm±0.2)	Conductor Dc Resistance (Ω/Km)	Current carring capacity AT 60° C(A)
1.5	22x0.285	1.5	0.7	0.8	4.6	13.7	24
2.5	36x0.285	2.0	0.7	0.8	5.1	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

H1Z2Z2-K

TÜV SÜD CE CPR RoHS

Approvals TÜV SÜD EN50618:2014

- UV resistance
- Highly Flame Retardant
- Low smoke, no halogen
- High and low temperatureresistance
- Anti-ageing



TECHNICAL DATA

Conductor: Annealed soft tin copper

Armoured: Stainless steel

Sheath/Insulation: XLPO

Rated voltage: AC U_0/U 1.0/1.0KV，DC1.5KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Approvals:

EN50618:2014

Temperature rating:

Ambient temperature: −40℃~+90℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Testing Standards:

Cold bending test: IEC 60811−504

Test under fire condition: EN 60332−1−2

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	5.2	13.7	24
2.5	36x0.285	2.0	0.7	0.8	5.7	8.21	33
4	56x0.285	2.4	0.7	0.8	6.1	5.09	44
6	84x0.285	3.0	0.7	0.8	6.7	3.39	57
10	80x0.39	4.0	0.7	0.8	7.7	1.95	79
16	120x0.39	5.0	0.7	0.9	9.2	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	13	0.565	176

GF-WDZCEER23 CE RoHS

Approvals CEEIA B218.2-2012

TECHNICAL DATA

Rated voltage: DC1.8KV

Voltage test on completed cable: AC6.5KV/5min，DC15KV/5min

Rated temperature:−40℃~+125℃

The permitted short −circuit−temperature referring to a period of 5s is+200℃

Flame Retardant Grade: Flame Retardant Class C, Fire Resistant

Finished cable ozone test: GB/T 2951.21−2008

Ageing properties: GB/T 2951.12−2008

Cold bending test: GB/T 2951.14−2008

Weather/UV Resistant: GB/T 12527−2008

Damp Heat Test: GB/T 2423.3−2006

HE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Armoured	Conductor construction (ϕn/mm±0.02)	Conductor stranded (ϕmm±0.02)	Insulation mediun thickness (mm)	Inner Sheath mediun thickness (mm)	Sheath mediun thickness (≥mm)	Cable OD (mm±0.5)	Cable OD (≤ Ω/Km)
2x1.5	Stainless steel strip	22x0.285	1.6	0.7	0.8	0.8	12.5	13.7
2x2.5		36x0.285	1.9	0.7	0.8	0.8	13.5	8.21
2x4		56x0.285	2.5	0.8	0.8	0.8	15	5.09
2x6		84x0.285	2.9	0.8	0.8	0.8	17	3.39

H07V-R CE RoHS

Approvals CE 1×4mm²~50mm²

TECHNICAL DATA

Rated voltage (V): U0/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)	Cable OD (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 temperature resistance, fireproof, anti-ultraviolet

25 YEARS OF QUALITY ADHERING TO THE SAME

MAKE PHOTOVOLTAIC POWER STATIONS SAFER

PNTECH

Zhejiang Pntech Technology Co.,Ltd.

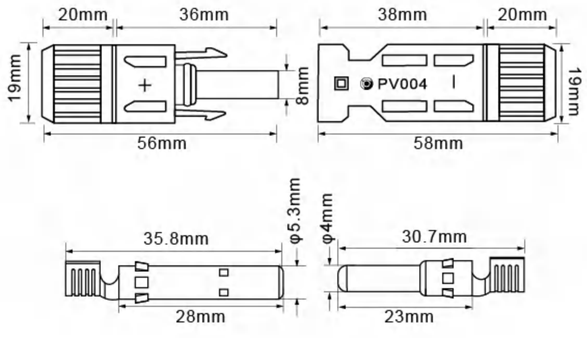
PV 004 *Solar PV Connector*

CE RoHS

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

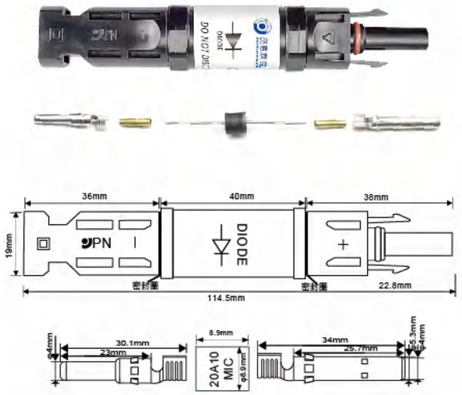


Feature

- 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



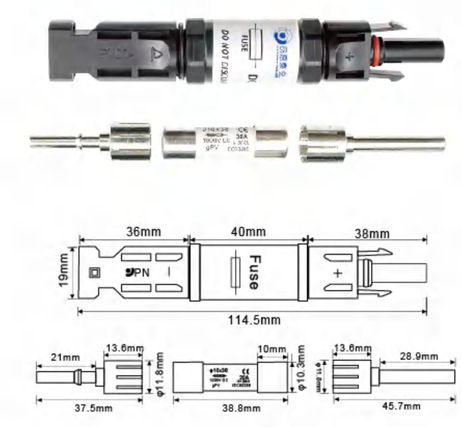
CE RoHS

Parameters

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

Fuse Connector PV004-F

Standard IEC 62852:2014/CE



CE RoHS

Parameters

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

Plate End Connector PV004-P

Standard IEC 62852:2014/CE

CE RoHS

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

2 to 1 T Branch Connector PV004-T2

Standard IEC 62852:2014/CE

CE RoHS

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

3 to 1 T Branch Connector PV004-T3

Standard IEC 62852:2014/CE

CE RoHS

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

4 to 1 T Branch Connector PV004-T4

Standard IEC 62852:2014/CE

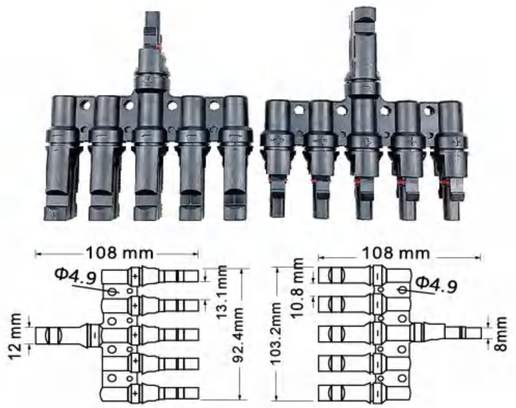
CE RoHS

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



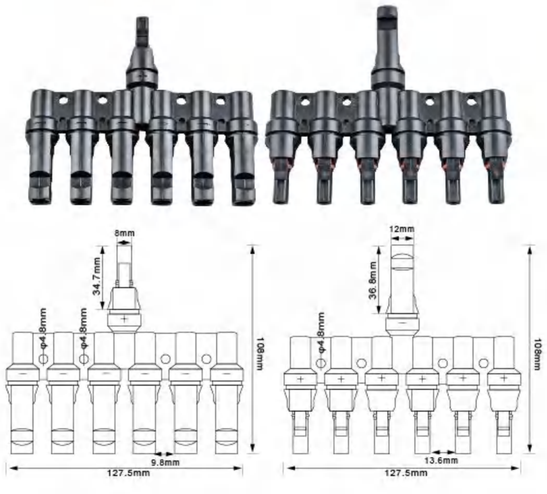
CE RoHS

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



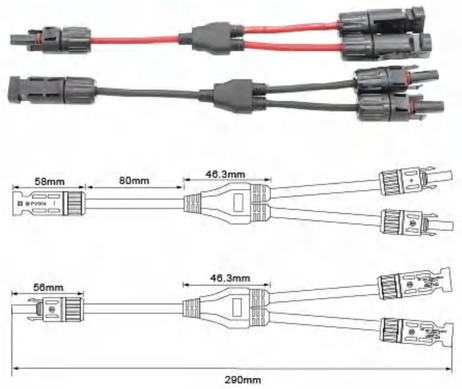
CE RoHS

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



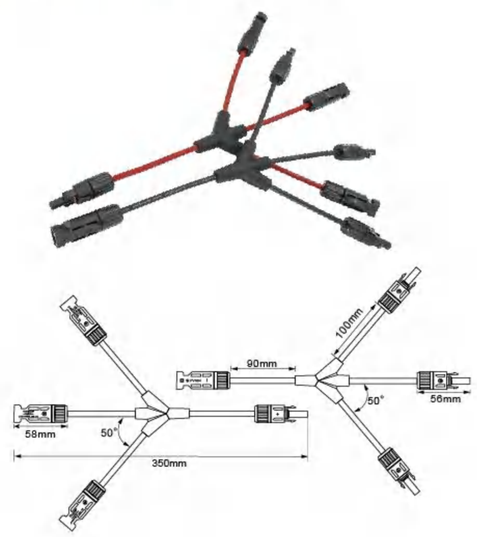
CE RoHS

Parameters

Type	PV004-2T1
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

3 to 1 Y Branch Connector PV004-3T1

Standard IEC 62852:2014/CE



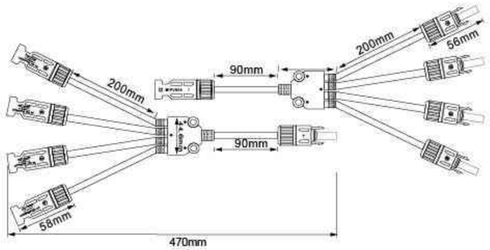
CE RoHS

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



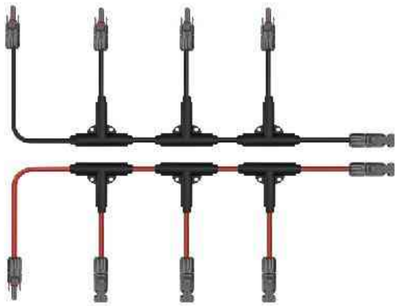
CE RoHS

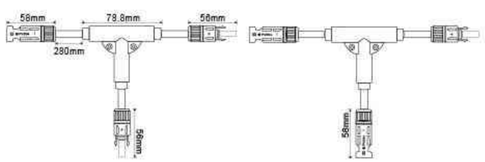
Parameters

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





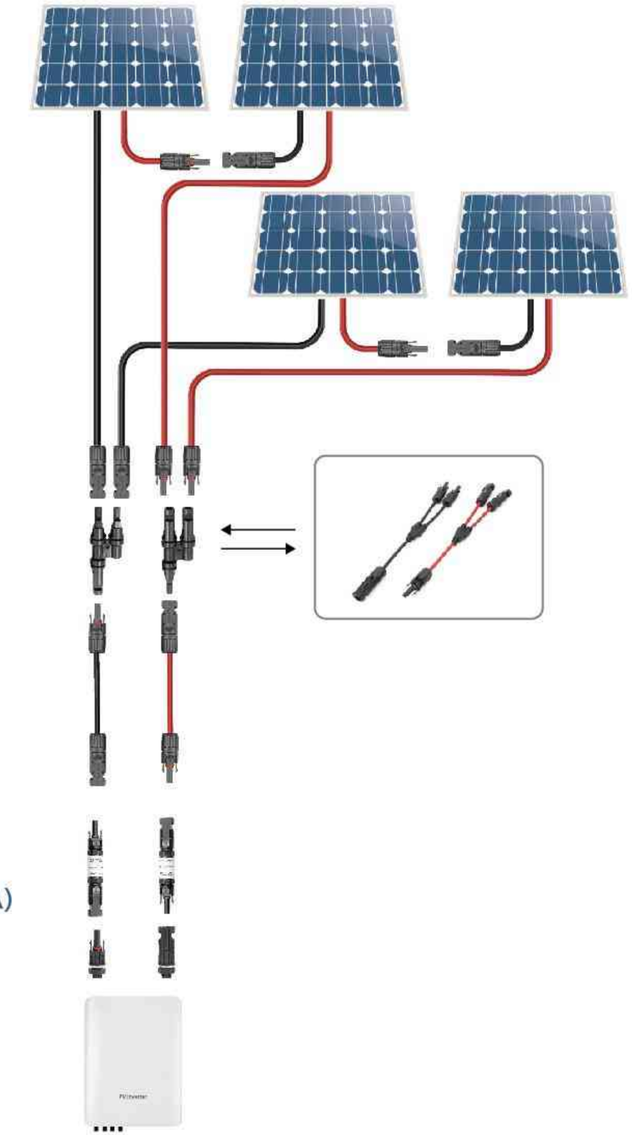
CE RoHS

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

1000V Series *Solar PV Connector*

- PV Connector
- T/Y/X Branch Connector
- SolarExtension Cable
- PV FUSE Holder Fuse Connector(FUSE 15-30A)
- Plate End Connector



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

25 YEARS OF QUALITY ADHERING TO THE SAME

MAKE PHOTOVOLTAIC POWER STATIONS SAFER

PNTECH

Zhejiang Pntech Technology Co.,Ltd.

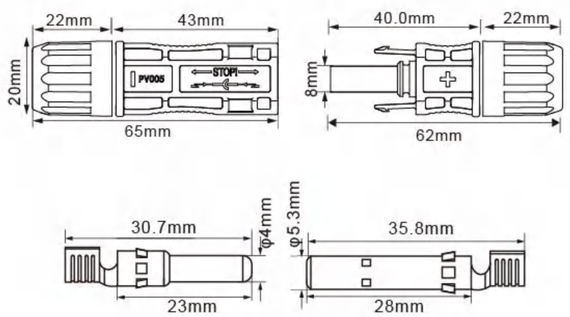
PV 005 *Solar PV Connector*

TÜVRheinland CE RoHS

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	IP65/IP68
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Cable Cross Section Area	2.5mm²,4mm²,6mm²
Insulation Material	PPE
Flame Class	UL94 V-0

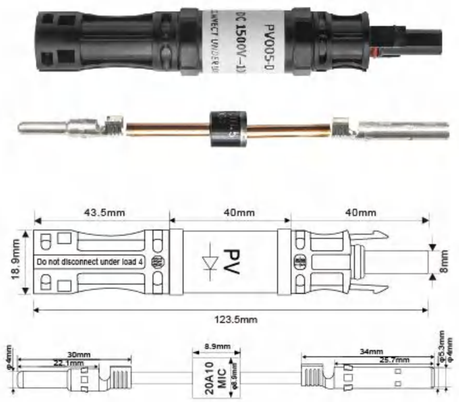


Feature

- 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



CE RoHS

Parameters

Type	PV005-D
Rated Voltage	1500V DC
Contact Materials	Tinned 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 *PV005-P*

Standard IEC 62852:2014/TÜV

TÜVRheinland CE RoHS

Parameters

Type	PV005-P
Rated Voltage	1500V DC
Contact Materials	Tinned copper
Rated Current	30A
Standard	IEC 62852:2014
Protection Degree	IP65/IP68
Contact Resistance	≤0.5mΩ
Ambient Temperature	-40℃~+85℃
Thread Size	12mm
Insulation Material	PPE
Flame Class	UL94 V-0

Fuse Connector

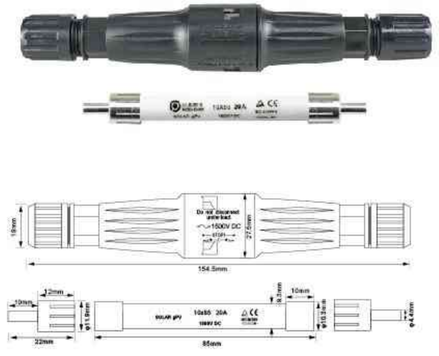
CE RoHS

Standard IEC 62852:2014

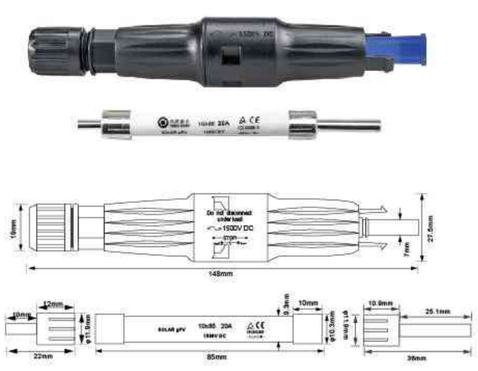
PV005-FA

PV005-FB

PV005-FC



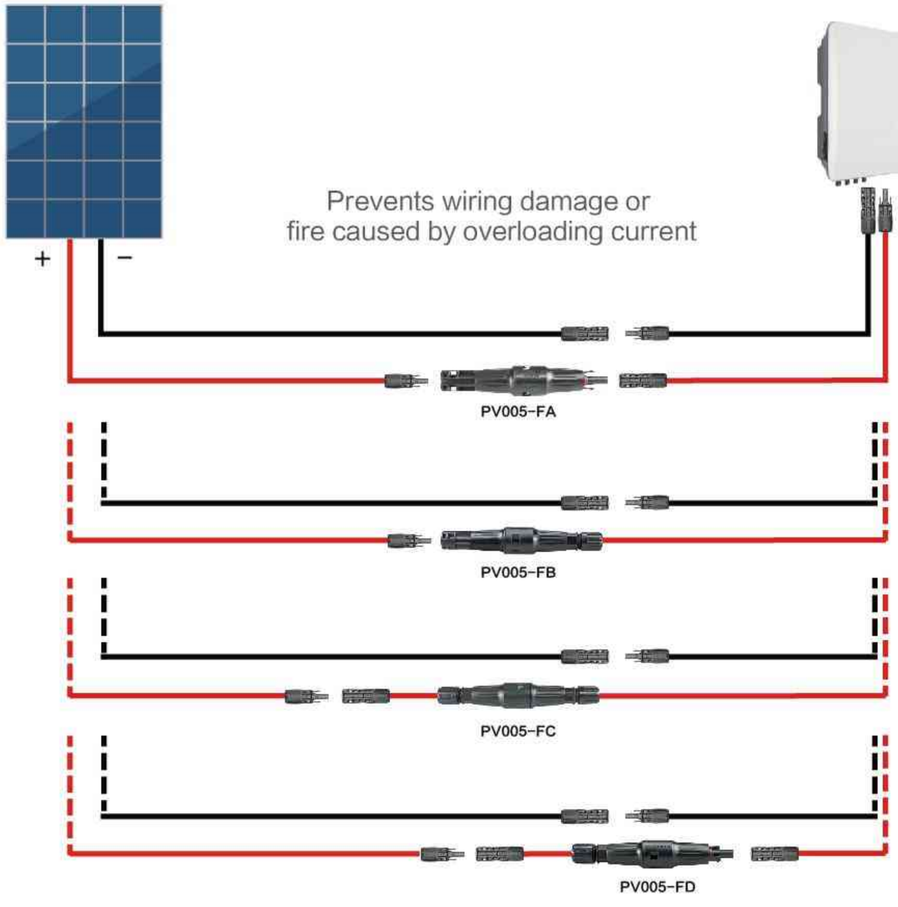
PV005-FD



Parameters

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

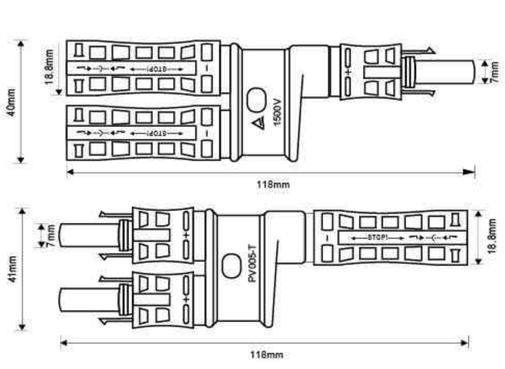
Fuse Product Usage Diagram



2 to 1 T Branch Connector PV005-T

CE RoHS

Standard IEC 62852:2014/CE



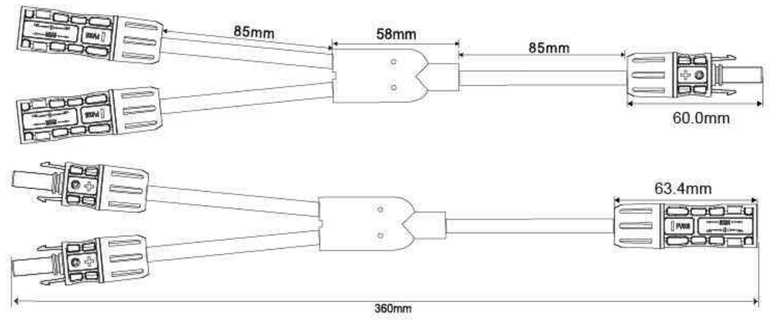
Parameters

- **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

CE RoHS

Standard IEC 62852:2014/CE

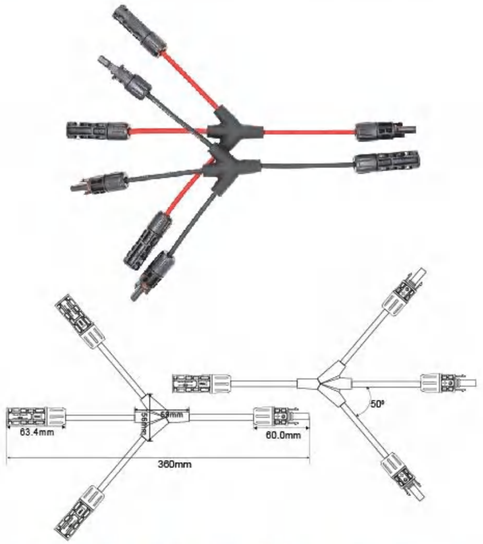


Parameters

- **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** PPE/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



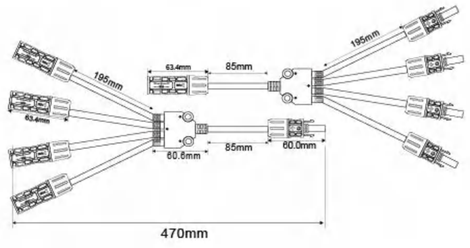
CE RoHS

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	PPE /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

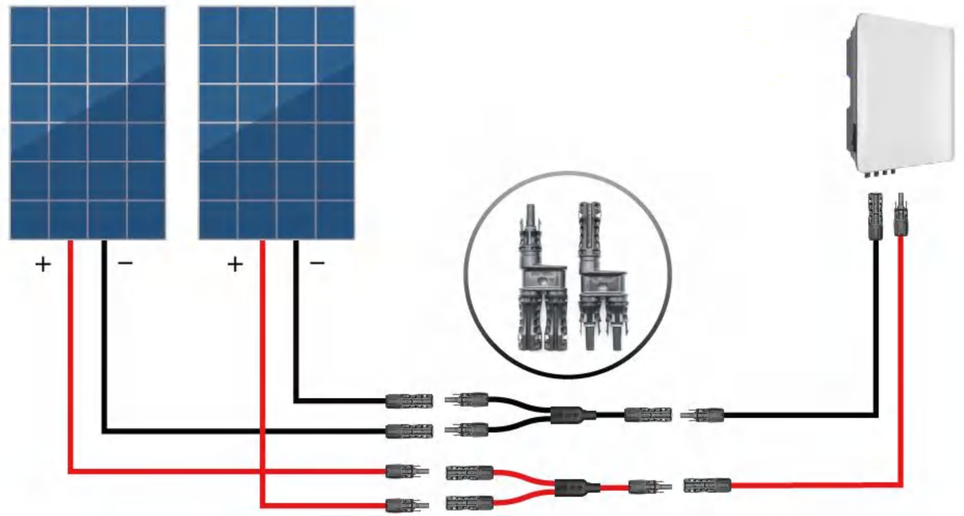


CE RoHS

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	PPE /XLPO
Flame Class	UL94 V-0
Input Cable	PV Cable 1×4mm²
Output Cable	PV Cable 1×6mm²

1500V Series *Solar PV Connector*



PRODUCT FEATURES

Converging PV connectors help to easily expand solar arrays in series or parallel configurations for flexible system design. They simplify installation, maintenance and compatibility of different solar panel brands and components.

Easier connection

· Photovoltaic connector design, simple and easy to connect circuits, improve space efficiency

Reduced wear and tear

· Safe and reliable connections minimise power loss and maintain overall system efficiency.

Excellent material

· The product is made of high quality materials for improved smoothness and sturdiness.

Flexible System Design

· Easily expand solar arrays in series or parallel configurations for flexible system design

SOLAR EXTENSION CABLE

FOUR REASONS FOR CHOOSING

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

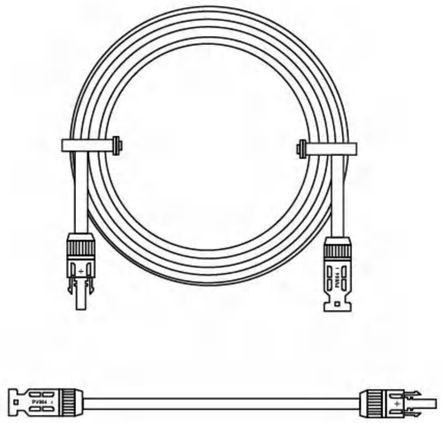
PNTECH

Zhejiang Pntech Technology Co.,Ltd.

Solar Extension Cable With Connector
Double Ends

Standard IEC 62852:2014/CE

CE RoHS



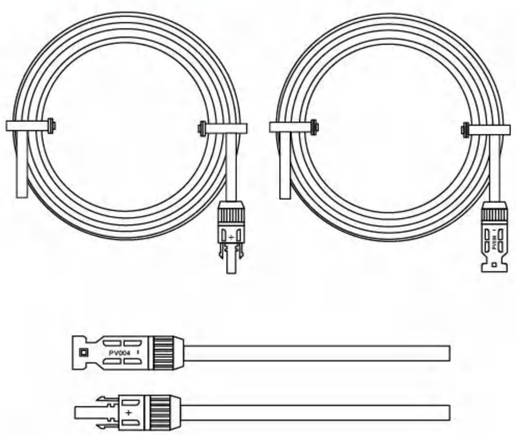
Parameters

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

CE RoHS



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

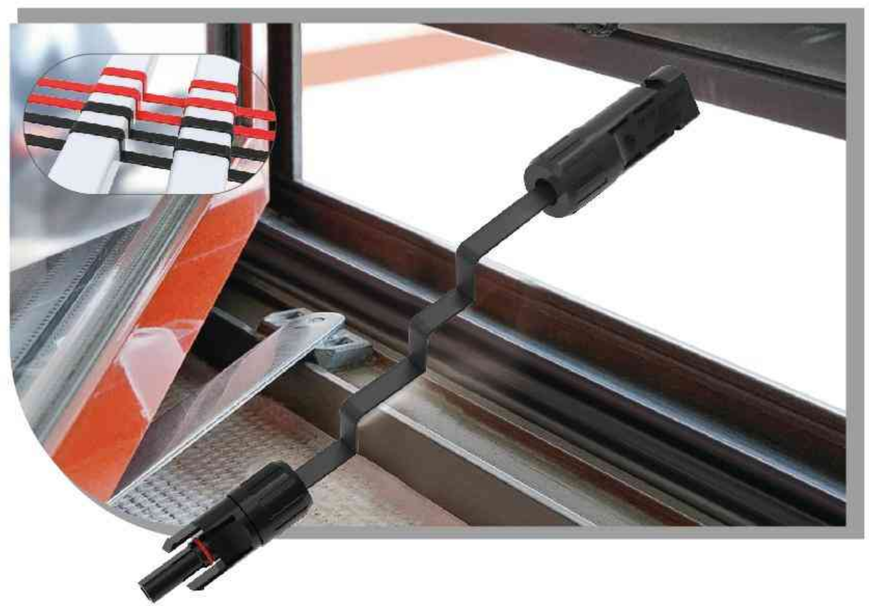
Double Ends

Custom Size

Single End

DESIGNATION	DIAGRAM	DESIGNATION	DIAGRAM
O Type DT		Energy Storage Battery Connection Cord	
Battery Brass Buckle		MC4 Dual Parallel Extension Cable	
Anderson Joint		Solar Street Light	
MC4 Dual Parallel Extension Cable		Automotive Junction Box	

TÜV CE RoHS



PRODUCT FEATURES

The flat wire passing through the window is suitable for leading wires from outdoors into the house, requiring no drilling and being durable. Furthermore, its use eliminates the need to drill holes in walls, doors, or windows during cable installation, providing a more convenient solution for cable installation.

Tinned Copper

· The copper core is produced with high-quality tinned copper, featuring low resistance, excel lent conductivity, and high safety.

Sheath

· PVC insulating material, flame retardant, environmentally friendly, high temperature, wear-resistant, corrosion-resistant.

Long service life

· flat design for easy and flexible installation, and excellent tensile strength.

High passability

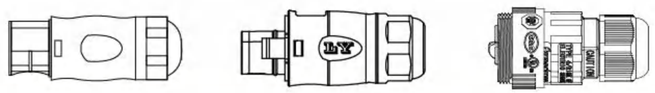
· which can meet the usage requirements in various narrow spaces.

TECHNICAL DATA

12AWG			
Conductor Material	Tinned plated copper	Min Tensile Strength(N/mm²)	⩾8.0
Construction	TS 144/0.15±0.005	Min Break Elongation Rate(%)	⩾125
Sheath Material	PVC	Flame Test	Vertical Combustion En60332-1-2
Rated Voltage(V)	450/750V	Theoretical Service Life (年)	25
Rated Temp(℃)	-20℃-90℃	Environ Ment Proection	Rohs2.0
Cond. Resistance(Ω/km,20℃)	⩽5.64	Length	Customisable
Voitage With Stand Test	3.5KV,5min	Colour	Customisable
Spark Electromechanical Voltage(KV)	7		

VDE

Approvals VDE H07RN-F 3x1.0mm²~3 x2.5mm²



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

PRODUCT FEATURES

A balcony photovoltaic system is an intelligent device that converts solar energy into electrical energy. Its primary purpose is to harness sunlight through photovoltaic panels to generate electricity for household use, thereby achieving energy conservation and minimizing energy waste. It offers the advantages of cost savings, convenient installation, and a plug-and-play function.

Balcony systems

THE STRUCTURE OF CABLE (Subject To The Latest Specifications)

Cross section (mm²)	Conductor construction (ϕn/mm±0.02)	Insulation medium thickness (≥mm)	Sheath medium 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

CE RoHS

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

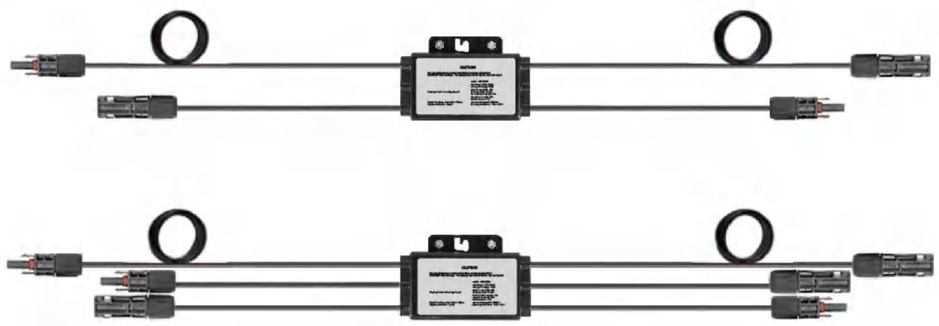
Maximum system voltage	1500V	Input cable length	500mm
Maximum Rated Input DC Power	600W	Output cable length	1000mm
Operation voltage range	7~60V	PV connector Model	PV005
Maximum input current	16A	Terminal compatibility	Compatible with MC4 connectors
Maximum output voltage	42V	Class of protection	IP65/IP68
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

TÜVRheinland CE RoHS

PN08xy

Corresponding current	20A/25A/30A	Connecting capacity	1x4mm2、12AWG
Rated voltage	1500V	Waterproof Structure	Potting sealant
Max working voltage	100V	Connecting capacity	Soldering
Ambient temperature	-40~+85℃	Insulation Material	PPE+PS
Degree of protection	IP65/P68(1m,1h)	Contact Materia	Copper tin plating
Pollution degree	class A	Volume Of Silicon Gel Up to	9mm-7.0g
Flame class	UL94-V05VA	Entry cable	180°

CE RoHS



Models	GS-RSD-80-20S	GS-RSD-80-20D	GS-RSD-80-25S	GS-RSD-80-25D
Technical Data				
No. of Input channels	Single Channel	Dual-channel	Single Channel	Dual-channel
No. of Output Channels	Single Channel			
Input Voltage	12-80V (Single Channel)			
Output Voltages	12-80V (Single Channel) / 12-160V (Dual-channel)			
Max. output current	20A		25A	
Max. short-circuit current	25A		30A	
Max. system voltage	1000V (1500V Selectable)			
Communication Method	PLC (SunSpec protocol)			
Shutdown Output Voltage	1V @ 10mA			
Power consumption	200 mW			
Mechanical parameters				
Input Connector	MC4 or MC4 compatible			
Input cable length	Single Channel 0.5 m / Dual-channel 0.5m (Support customisation)			
Output Connectors	MC4 or MC4 compatible			
Output cable length	Single Channel 1.2 m / Dual-channel 2.4m (Support customisation)			
Dimensions (without cable)	120 x 77 x 17mm (W*H*T)			
Environmental parameters				
Operating temperature range	-40° C to +85° C			
Outdoor rating	IP68 / NEMA6P			
Approve				
Security certification*	UL1741, CSA C22.2 No. 330-17, IEC/EN 62109-1			
Electromagnetic compatibility*	FCC Part15 Class B, ANSI C63.4, IEC/EN 61000-6-1/-2/-3/-4			
SUNSPEC&UL	YES			

PRODUCT FEATURES

Rapid Shutdown is the core equipment in the module rapid shutdown solution of PV power generation system, which is connected with PV modules to realise the rapid shutdown function at the module level, in order to achieve the purpose of safe, reliable and stable operation of PV power generation system.

Product Features

Fast shutdown: Component-level fast shutdown to ensure fire and O&M safety

Reliable communication: adopts broadband power line carrier communication technology

High efficiency: ultra-low power consumption, wide operating voltage range, maximum efficiency of 99.9 per cent

Convenient installation: compatible with bolt and snap fixing, plug and play

Active safety: real-time data monitoring, 0V shutdown voltage

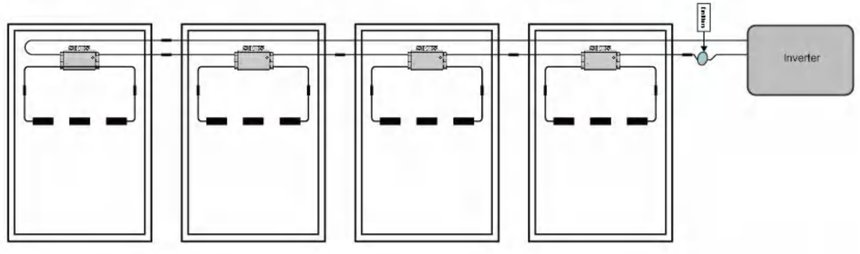
Flexible design: long string design

Highly reliable: IP68 dust and waterproof rating

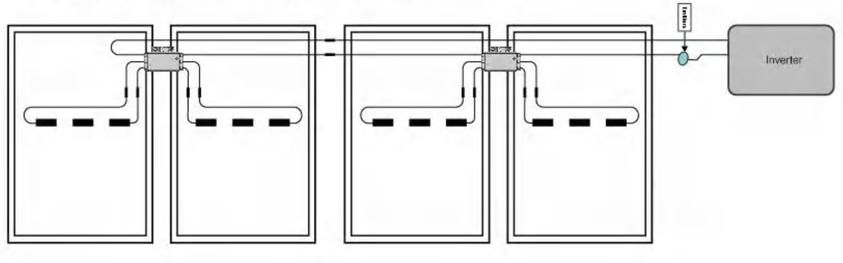
Intelligent O&M: Component-level data management and intelligent diagnostics

Connecting the cable

For a PV system using a one-on-one shutdown product, as shown in the figure below, connect the output terminals of the PV modules to the input terminals of the shutdown, and connect the output of the shutdown to the string circuit.



PV system using one-two shutdown products, as shown in the figure below, connect the output terminals of two adjacent PV modules to the two input terminals of PV1 & PV2 of the one-two shutdown respectively, and then connect the outputs of the shutdown to the string circuit.



Solar PV Professional Installation Tool Set (Model)

C4K-L

Crimping Pliers(A-2546B)
Screw Driver × 2
Cutting and stripping pliers
Wire Cutters
Nipper Pliers
Connector Spanner

C4K-S

Crimping Pliers(LY-2546B)
Wire Stripper
Cutting and stripping pliers
Connector Spanner

C4K-C

Crimping Pliers(A-2546B)
Wire Stripper
Wire Cutters
Connector Spanner

C4K-D

Crimping Pliers(LY-2546B)
Wire Stripper
Wire Cutters
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

▶ 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

▶ Jiangsu Shuning and Huawei Co-operation Project-1000kWp

▶ Ningbo Dongda Distributed Project Power Station

▶ Hebei Hengshui Adopt-a-Cow Dairy 3.2MW Project

▶ Zhejiang Xinyuan 0.63MWp Distributed Project

▶ 5MW project in Munich, Germany

▶ Ningbo Shuntian Liangyuan Distributed Project

INTEGRITY MANAGEMENT

QUALITY RESPONSIBILITY

BRING QUALITY HOME

ADD SUNSHINE TO PHOTOVOLTAIC