

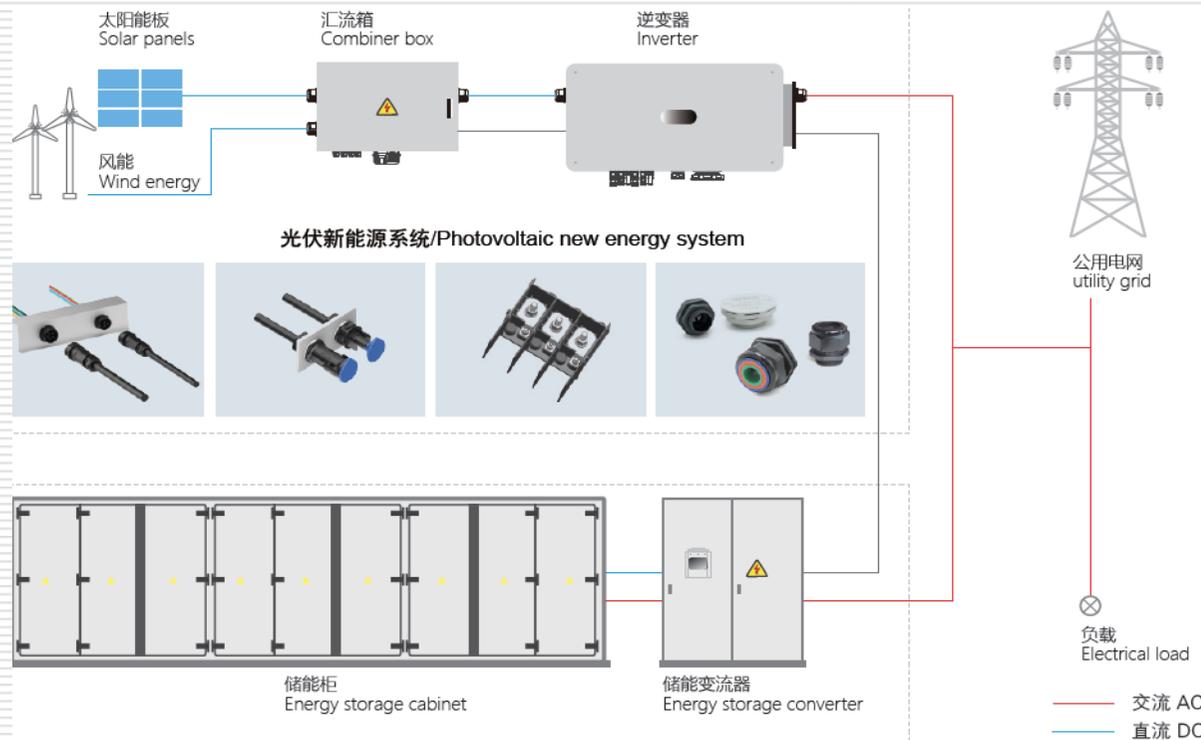
# *Introduction To Solar Products*

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- *Product Application Field*
- *PV4.0 Solar Cable Connector*
- *PV4.0 Solar Panel Connector*
- *PV4.0 Solar Fuse Connector*
- *PV4.0 Solar Diode Connector*
- *PV4.0 Solar Branch Connector*
- *PV4.0 Solar Branch Harness*
- *Solar AC Connector*
- *PV Tools Kit*
- *PV Solar Wire*

# Product Application Field

Mainly used in the fields of solar and wind power generation: Solar modules, wind turbines and junction boxes, combiner boxes, inverters, distribution Connection of cabinets and energy storage systems.



# PV4.0 Solar Cable Connector (1500 DC)

## Products:



## Part No:

➤ DS1162-01 Series

➤ For details:

[https://en.connfly.com/list\\_193/1394.html](https://en.connfly.com/list_193/1394.html)

## Product Specification:

- Rated current: 30A
- Rated voltage: 1500V DC
- Contact resistance: 0.5mΩ Max
- Degree of protection: IP67
- Flame class: UL94V-0
- Ambient temperature range: -40°C ~ +85°C
- Suitable cable cross sections: 2.5~6mm<sup>2</sup>/14~10AWG



**IP67 Rating**  
Waterproof and dustproof



**UV Resistant**

Anti-aging and durable

**Cold Resistant**

Temperature range from -40°C to +85°C

# *PV4.0 Solar Cable Connector (1500 DC) ---- (With Anti Retreat Structure)*

## *Products:*



## *Part No:*

➤ *DS1162-21 Series*

➤ *For details:*

<https://en.connfly.com/search/?keyword=ds1162&scode>

## *Product Specification:*

- *Rated current:30A/50A (Machine Pin)*
- *Rated voltage:1500V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*
- *Suitable cable cross sections:2.5~6mm<sup>2</sup>/14~10AWG*



# PV4.0 Solar Cable Connector (1000 DC)

## Products:



## Part No:

➤ DS1162-01 Series

➤ For details:

[https://en.connfly.com/list\\_193/1394.html](https://en.connfly.com/list_193/1394.html)

## Product Specification:

- Rated current: 30A
- Rated voltage: 1000V DC
- Contact resistance: 0.5mΩ Max
- Degree of protection: IP67
- Flame class: UL94V-0
- Ambient temperature range: -40°C ~ +85°C
- Suitable cable cross sections: 2.5~6mm<sup>2</sup>/14~10AWG



**IP67 Rating**  
Waterproof and dustproof



**UV Resistant**

Anti-aging and durable



**Cold Resistant**

Temperature range from -40°C to +85°C

# *PV4.0 Solar Panel Connector (1500 DC)*

## *Products:*



## *Part No:*

➤ *DS1162-01 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1394.html](https://en.connfly.com/list_193/1394.html)

## *Product Specification:*

- *Rated current:30A*
- *Rated voltage:1500V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*
- *Suitable cable cross sections:2.5~6mm<sup>2</sup>/14~10AWG*



# *PV4.0 Solar Panel Connector (1000 DC)*

## *Products:*



## *Part No:*

➤ *DS1162-01 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1394.html](https://en.connfly.com/list_193/1394.html)

## *Product Specification:*

- *Rated current:30A*
- *Rated voltage:1000V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*
- *Suitable cable cross sections:2.5~6mm<sup>2</sup>/14~10AWG*



# PV4.0 Solar Fuse Connector (1000 DC)

## Products:



## Part No:

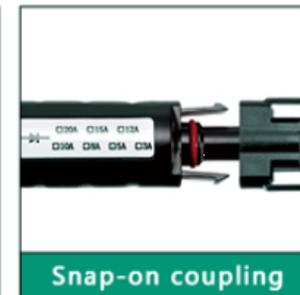
➤ DS1162-22 Series

➤ For details:

[https://en.connfly.com/list\\_193/1697.html](https://en.connfly.com/list_193/1697.html)

## Product Specification:

- Rated current: 10A/15A/20A/25A/30A
- Rated voltage: 1000V DC
- Contact resistance: 0.5mΩ Max
- Degree of protection: IP65
- Flame class: UL94V-0
- Ambient temperature range: -40°C ~ +85°C



# *PV4.0 Solar Diode Connector (1000 DC)*

## *Products:*



## *Part No:*

➤ *DS1162-23 Series*

➤ *For details:*

<https://en.connfly.com/search/?keyword=DS1162>

## *Product Specification:*

- *Rated current:10A/15A/20A/25A/30A*
- *Rated voltage:1000V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP65*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*



# *PV4.0 Solar Branch Connector (1500 DC) --- 2 TO 1*

## *Products:*



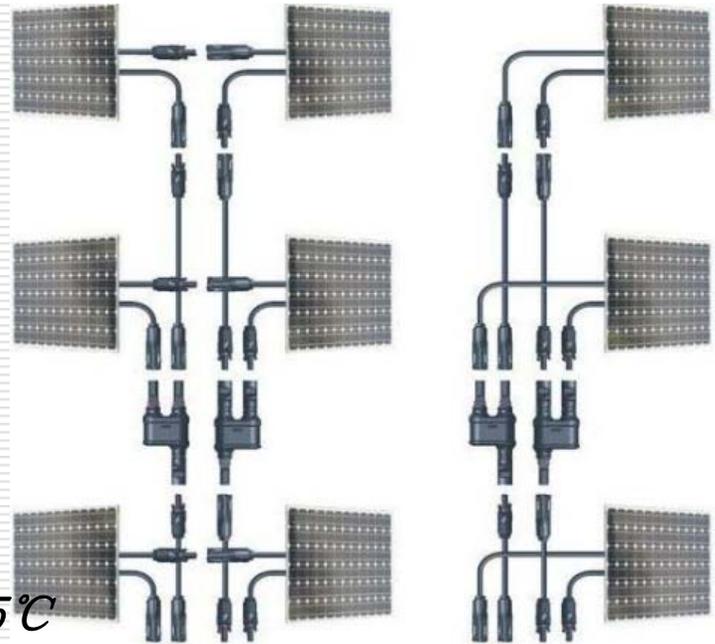
## *Product Specification:*

- *Rated current: 50A*
- *Rated voltage: 1500V DC*
- *Contact resistance: 0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class: UL94V-0*
- *Ambient temperature range: -40°C ~ +85°C*

## *Part No:*

- *DS1162-14 Series*
- *For details:*

[https://en.connfly.com/list\\_193/1694.html](https://en.connfly.com/list_193/1694.html)



# *PV4.0 Solar Branch Connector (1500 DC) --- 3 TO 1*

## *Products:*



## *Part No:*

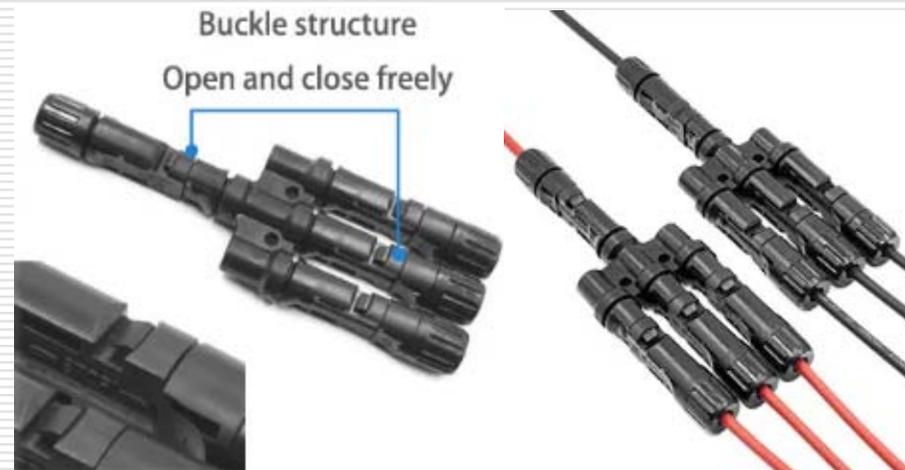
➤ *DS1162-14 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1694.html](https://en.connfly.com/list_193/1694.html)

## *Product Specification:*

- *Rated current: 50A*
- *Rated voltage: 1500V DC*
- *Contact resistance: 0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class: UL94V-0*
- *Ambient temperature range: -40°C ~ +85°C*



# *PV4.0 Solar Branch Connector (1500 DC) ---4 TO 1*

## *Products:*



## *Part No:*

➤ *DS1162-14 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1694.html](https://en.connfly.com/list_193/1694.html)

## *Product Specification:*

- *Rated current:50A*
- *Rated voltage:1500V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*



# *PV4.0 Solar Branch Connector (1500 DC) ---5 TO 1*

## *Products:*



## *Part No:*

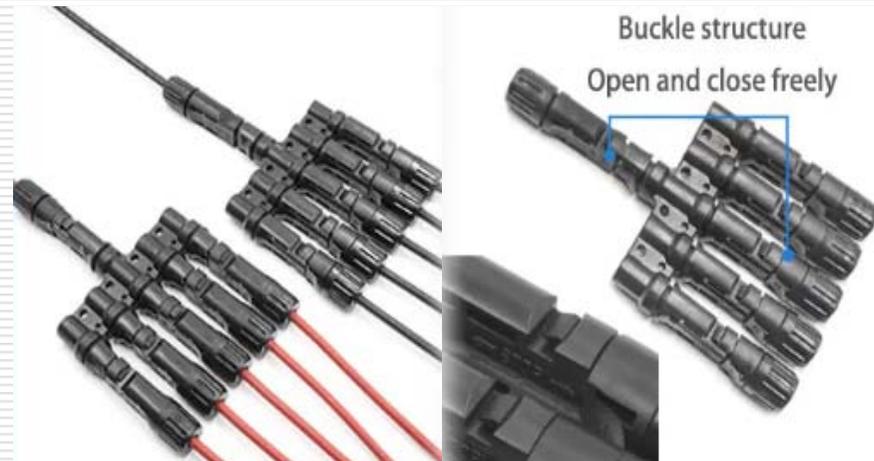
➤ *DS1162-14 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1694.html](https://en.connfly.com/list_193/1694.html)

## *Product Specification:*

- *Rated current:50A*
- *Rated voltage:1500V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*



# *PV4.0 Solar Branch Connector (1500 DC) ---6 TO 1*

## *Products:*



## *Part No:*

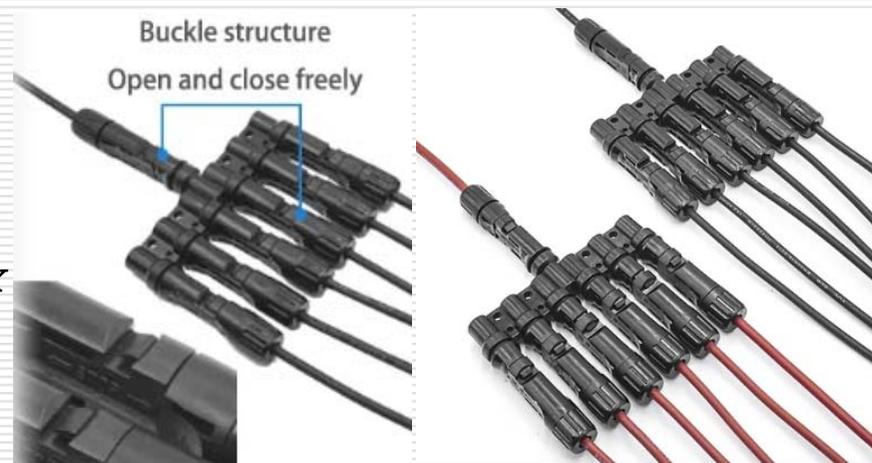
➤ *DS1162-14 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1694.html](https://en.connfly.com/list_193/1694.html)

## *Product Specification:*

- *Rated current:50A*
- *Rated voltage:1500V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*



# *PV4.0 Solar Branch Harness (1000 DC) ---2 TO 1*

## *Products:*



## *Part No:*

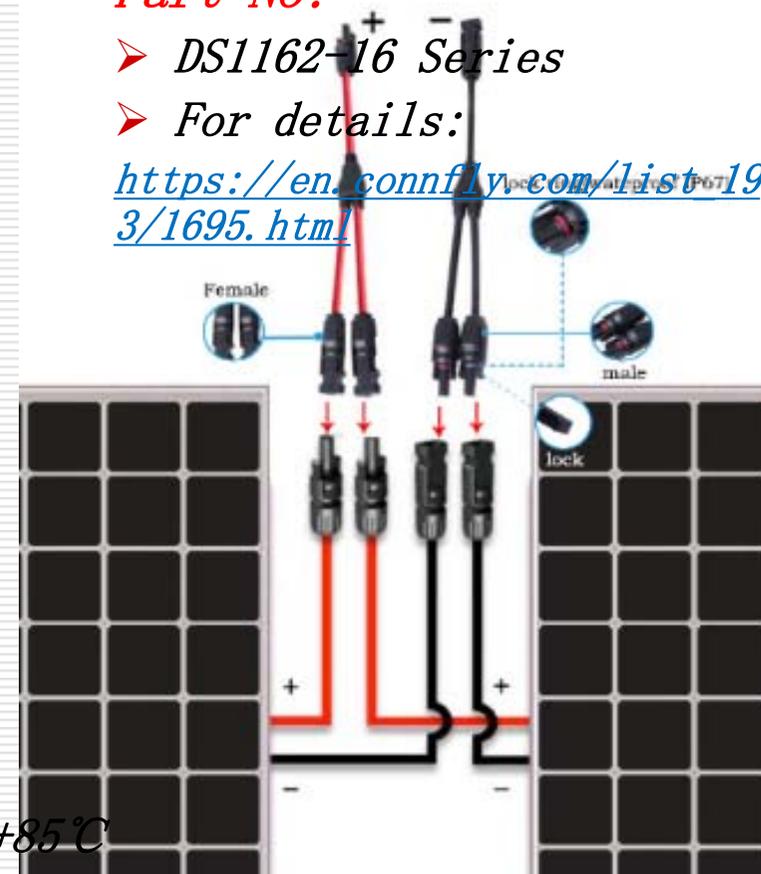
➤ *DS1162-16 Series*

➤ *For details:*

<https://en.connfly.com/list-193/1695.html>

## *Product Specification:*

- *Rated current:30A*
- *Rated voltage:1000V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*



# *PV4.0 Solar Branch Harness (1000 DC) ---3 TO 1*

## *Products:*



## *Part No:*

➤ *DS1162-16 Series*

➤ *For details:*

[https://en.connfly.com/list\\_193/1695.html](https://en.connfly.com/list_193/1695.html)

## *Product Specification:*

- *Rated current:30A*
- *Rated voltage:1000V DC*
- *Contact resistance:0.5mΩ Max*
- *Degree of protection: IP67*
- *Flame class:UL94V-0*
- *Ambient temperature range:-40℃~+85℃*



QUALITY TINNED COPPER

### **TINNED COPPER**

Tin plating process, oxidation resistance, good conductivity, 99.98% pure copper, low resistance.

INJECTION MOLDING

### **INJECTION MOLDING**

The confluence adopts injection molding crimping, which is tightly sealed, waterproof, wear-resistant and durable.

# PV4.0 Solar Branch Harness (1000 DC) ---4 TO 1

## Products:



## Part No:

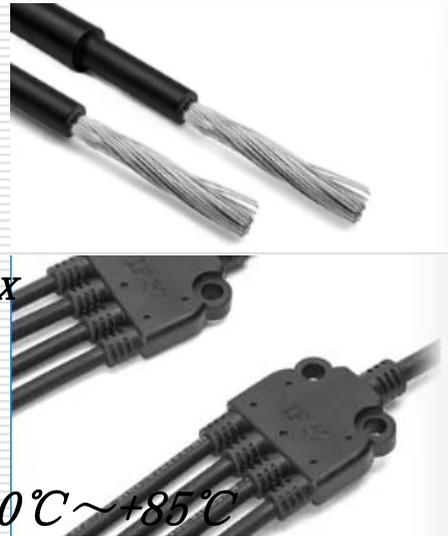
➤ DS1162-16 Series

➤ For details:

[https://en.connfly.com/list\\_193/1695.html](https://en.connfly.com/list_193/1695.html)

## Product Specification:

- Rated current: 30A
- Rated voltage: 1000V DC
- Contact resistance: 0.5mΩ Max
- Degree of protection: IP67
- Flame class: UL94V-0
- Ambient temperature range: -40°C ~ +85°C



QUALITY TINNED COPPER

### TINNED COPPER

Tin plating process, oxidation resistance, good conductivity, 99.98% pure copper, low resistance.

INJECTION MOLDING

### INJECTION MOLDING

The confluence adopts injection molding crimping, which is tightly sealed, waterproof, wear-resistant and durable.

# Solar AC Connector

## Products:



## Product Specification:

- Rated current: 50A
- Rated voltage: 500V AC
- Contact resistance: 0.25mΩ Max
- Degree of protection: IP68
- Flame class: UL94V-0
- Ambient temperature range: -40°C ~ +85°C

## Part No:

➤ DS1162-03 Series

➤ For details:

<https://en.connfly.com/search/?keyword=ds1162-03>



# PV Tools Kit

## Products:



### Part No:

➤ DS1162-20 Series

➤ For details:

<https://en.connfly.com/search/?keyword=ds1162>

## Products:



### Specification:

➤ Suitable cable cross sections:  $2.5 \sim 6 \text{mm}^2 / 14 \sim 10 \text{AWG}$

### Part No:

➤ DS1162-24 Series

➤ For details:

<https://en.connfly.com/search/?keyword=ds1162>

# PV Tools Kit

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## *Products:*



## *Specification:*

- *Suitable cable cross sections: 2.5~6mm<sup>2</sup>/14~10AWG*

## *Part No:*

- *DS1162-25 Series*
- *For details:*

<https://en.connfly.com/search/?keyword=ds1162>

## *Products:*



## *Specification:*

- *Suitable cable cross sections: 2.5~6mm<sup>2</sup>/14~10AWG*

## *Part No:*

- *DS1162-26 Series*
- *For details:*

<https://en.connfly.com/search/?keyword=ds1162>

# PV Tools Kit

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## *Products:*



## *Specification:*

- Suitable cable cross sections:  $2.5 \sim 6\text{mm}^2 / 14 \sim 10\text{AWG}$

## *Part No:*

- DS1162-29 Series
- For details:

<https://en.connfly.com/search/?keyword=ds1162>

## *Products:*



## *Specification:*

- Suitable cable cross sections:  $2.5 \sim 6\text{mm}^2 / 14 \sim 10\text{AWG}$

## *Part No:*

- DS1162-30 Series
- For details:

<https://en.connfly.com/search/?keyword=ds1162>

# *PV Tools Kit*

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## *Products:*



## *Part No:*

➤ *DS1162-29 Series*

➤ *For details:*

<https://en.connfly.com/search/?keyword=ds1162>

## *Specification:*

➤ *Suitable cable cross sections: 2.5~6mm<sup>2</sup>/14~10AWG*

# PV Solar Wire

## ---(UL 4703 PV WIRE)

### Products:



### Product Specification:

- Rated voltage:1000V AC
- Voltage test on completed cable:6.0KV AC
- Ambient temperature:-40° C to +90° C
- Service life:25 Years
- Weathering/UV-resistance:UL2556
- Fire test:UL1581 VW-1
- Heat distortion test:  
UL1581-560(121±2° C)x1h, 2000g, ≤50%

### Part No:

- DS1162-27 Series
- For details:

<https://en.connfly.com/search/?keyword=ds1162>

### The Structure of Cable:

Conductor		Conductor Stranded OD.max(mm)	Cable OD.(mm)	Max Cond Resistance (Ω/km,20°C)
AWG	No/mm(A)			
18	16/0.254	1.18	5.00	23.20
16	26/0.254	1.49	5.30	14.60
14	41/0.254	1.88	5.70	8.96
12	65/0.254	2.36	6.20	5.64
10	105/0.254	3.00	6.90	3.546
8	168/0.254	4.10	8.40	2.23
6	266/0.254	5.20	10.30	1.403
4	420/0.254	6.50	11.70	0.882
2	665/0.254	8.25	13.50	0.5548

# PV Solar Wire

—— (TUV PV1-F DOUBLE PARALLEL SOLAR CABLE)

## Products:



## Part No:

- DS1162-28 Series
- For details:

<https://en.connfly.com/search/?keyword=ds1162>

## The Structure of Cable:

## Product Specification:

- Rated voltage: 1000VAC, 1500VDC
- Voltage test on completed cable: 6.5KV AC
- Ambient temperature: -40° C to +90° C
- Service life: 25 Years
- Acid and alkali resistance test:  
EN60811-2-1
- Fire test: EN60332-1-2

Core*Cross section(mm)	Conductor construction Dim A(No./mm)	Insulation Thickness Dim B(mm)	Jacket Thickness Dim C(mm)	Cable OD Dim D*E(mm)	Max Cond Resistance (Ω/km,20°C)
2x1.5	30/0.25	0.70	0.80	5.0*10.3	13.7
2x2.5	49/0.25	0.70	0.80	5.2*10.8	8.21
2x4.0	56/0.285	0.70	0.80	5.5*11.2	5.09
2x6.0	84/0.285	0.70	0.80	6.2*12.5	3.39
2x10	84/0.4	0.70	0.80	7.5*15.2	1.95
2x15	128/0.4	0.70	0.80	9.6*19.7	1.24

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The End  
thanks a lot!

If you have any questions or suggestions please E-mail to:

[ding@connfly.com](mailto:ding@connfly.com)

Thanks a lot!