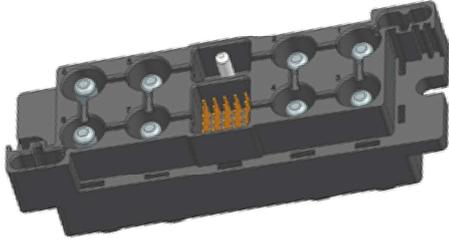


# HFLPR12 socket series

# POWER CONNECTOR



### Features

- The contact are made of copper alloys with high conductivity
- The use of crown springs for contact ensures contact reliability
- It has the characteristics of reliable connection, soft insertion, low contact resistance and high current carrying density
- Power distribution module for DC charging station, also suitable for industrial equipment electricity Source module
- Mating With:  
HFLPR12-TS0930VYB Power connector plug

**RoHS compliant**

### ELECTRICAL DATA

Rated Voltage	1500V
Rated current	160A
Voltage Proof	5700VAC
Contact Resistance	≤ 0.6mΩ
Insulation Resistance	≥ 1000MΩ

Notes: 1) The data shown above are initial values.

### STORAGE REQUIREMENT

Environment temperature	-10°C to +40°C
Humidity	80% Max
Ambient gas	No acidity, No alkalescence and other corrosive gas
Stockpile period	Doesn't exceed one year from production date

Notes: 1) The data shown above are initial values.

### CHARACTERISTICS

Temperature Range	-40°C to 125°C
Salt Mist	48h
Temperature life	168 hours at 125±5°C <sup>2)</sup>
Thermal Shock	-40°C(30 min), +125°C(30 min), 5 times <sup>2)</sup>
Mechanical Shock	Acceleration of 500m/s <sup>2</sup> , half sine wave, lasting 11 ms, ±X, ±Y, ±Z direction 3 times each, the current instantaneous break time is less than 1μs
Vibration	Frequency 10Hz ~ 55Hz ~ 10Hz, AM 0.75mm,each vertical direction lasts for 2 h,the current instantaneous break time is less than 1μs
Protection Grade	IP20
Quality	Approx.343.5g
Marking Mode	Laser etching
Durability	50 Times Min
Termination	Cable crimping

- Notes: 1) The data shown above are initial values.  
 2) The parts should not be damaged, and the contact resistance should meet the requirements of electrical performance parameters.  
 3) No physical damage, electrical and mechanical properties meet sequential testing.

### ORDERING INFORMATION

	<b>HFLPR12</b>	<b>-Z</b>	<b>P</b>	<b>09</b>	<b>30</b>	<b>V</b>	<b>Y</b>	<b>B</b>
Type								
Type of Connector	Z: Socket							
Type of Contact	P: Contact pin							
No.of Power Contact	09: 9 Power Contacts							
No.of Signal Contact	30: 30 Signal Contacts							
Structural Form	V: Vertical							
Power pin wiring method	Y: Crimping cables							
Signal pin wiring method	B: Welding							



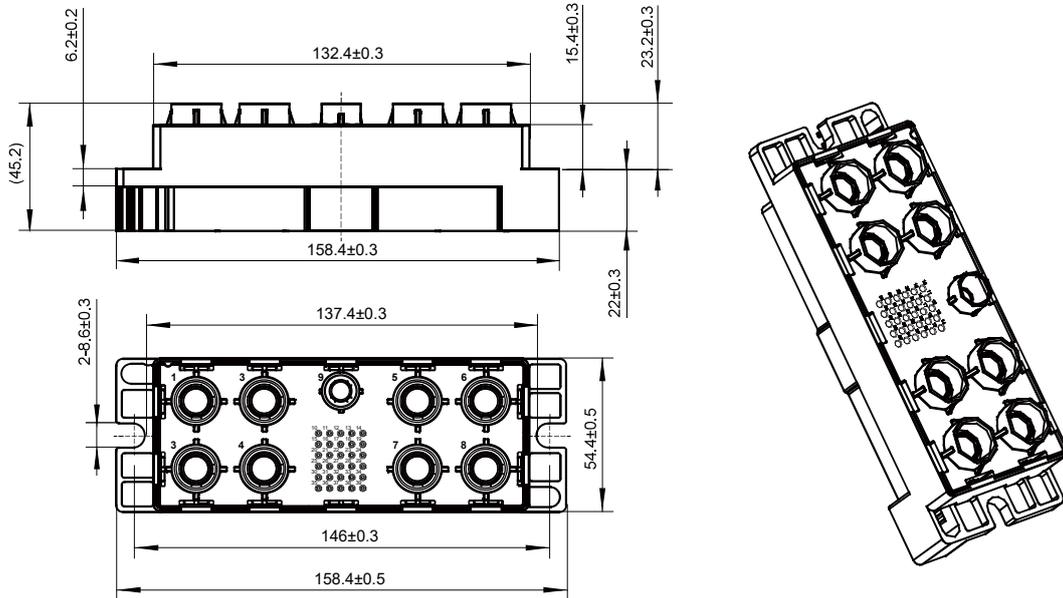
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 2.00

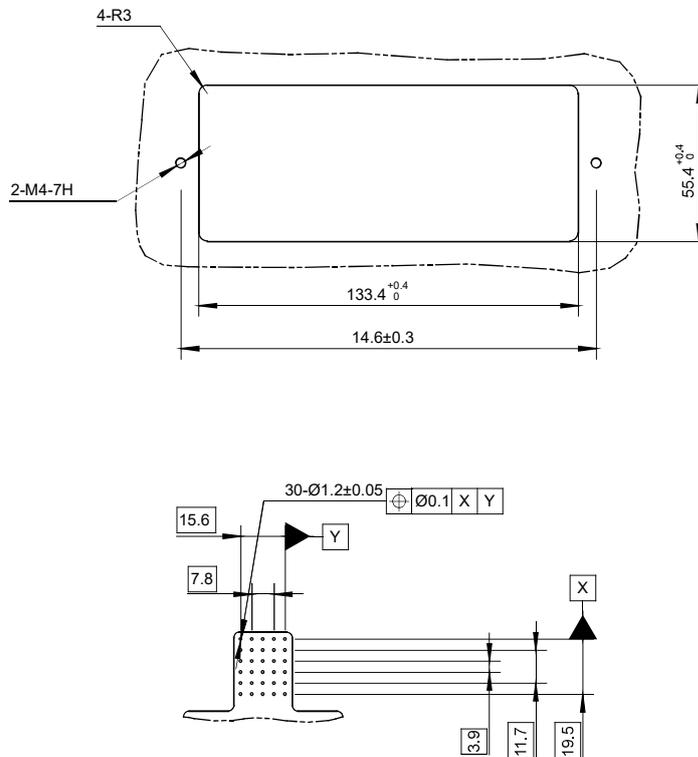
# OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

## Outline Dimensions



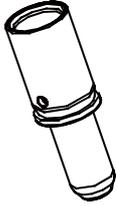
## PCB Layout (Bottom view)



## DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø8 Pin



Ø5 Pin



Ø1.02 Pin



Assembly screw M4



## SELECTION OF PARTS

Serial No.	Part And Components Name	Material	Finishing	Notes
1	Ø8 Pin 1 (long)	Copper Alloy	Silver plated	Suitable for 35mm <sup>2</sup> cable
2	Ø8 Pin 1 (short)	Copper Alloy	Silver plated	Suitable for 35mm <sup>2</sup> cable
3	Ø8 Pin 2 (long)	Copper Alloy	Silver plated	Suitable for 25mm <sup>2</sup> cable
4	Ø8 Pin 2 (short)	Copper Alloy	Silver plated	Suitable for 25mm <sup>2</sup> cable
5	Ø5 Pin	Copper Alloy	Silver plated	Suitable for 16mm <sup>2</sup> cables
6	Ø1.02 Pin	Copper Alloy	Gold plated	/
7	Assembly screw M4	Mild steel	Galvanizing	/

## PRECAUTIONS FOR USE

**1. Adapter cable:**

35mm<sup>2</sup> or 25mm<sup>2</sup> (Recommended: Ø8 Pin 1 is suitable for 35mm<sup>2</sup> cable, Ø8 Pin 2 is suitable for 25mm<sup>2</sup> cable, customer's choice according to requirements.);

**2. Whether the power Pin is reliable, refer to the minimum pulling force requirements:**

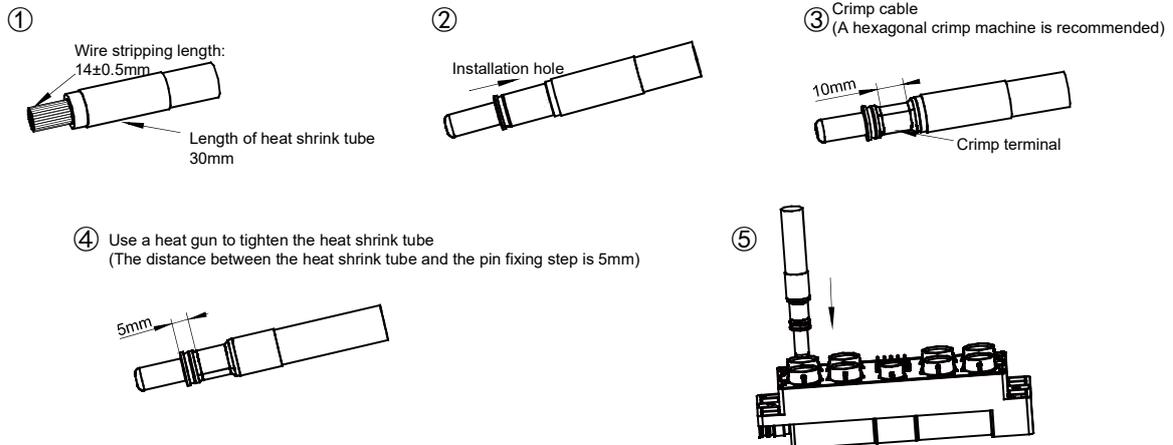
Ø8 Pin 1 crimp 35mm<sup>2</sup> cable, minimum pulling force 2200N

Ø8 Pin 2 crimp 25mm<sup>2</sup> cable, minimum pulling force 1600N

Ø5 Pin crimp 16mm<sup>2</sup> cable, minimum pulling force 1300N

**4. The operation process is as follows:**

**Ø8 Power Pin Cable (crimp) ❖❖❖**



**Disclaimer**

The specification is for reference only. Specifications subject to change without notice.

We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact Hongfa for the technical service. However, it is the user's responsibility to determine which product should be used only.

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