

HFLPR12 plug 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-ZP0930VYB Power connector socket

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 ²⁾
Thermal Shock	-40°C(30 min), +125°C(30 min), 5 times ²⁾
Mechanical Shock	Acceleration of 500m/s ² , 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.309.5g
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

	HFLPR12	-T	S	09	30	V	Y	B
Type								
Type of Connector	T: Plug							
Type of Contact	S: Receptacle							
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							



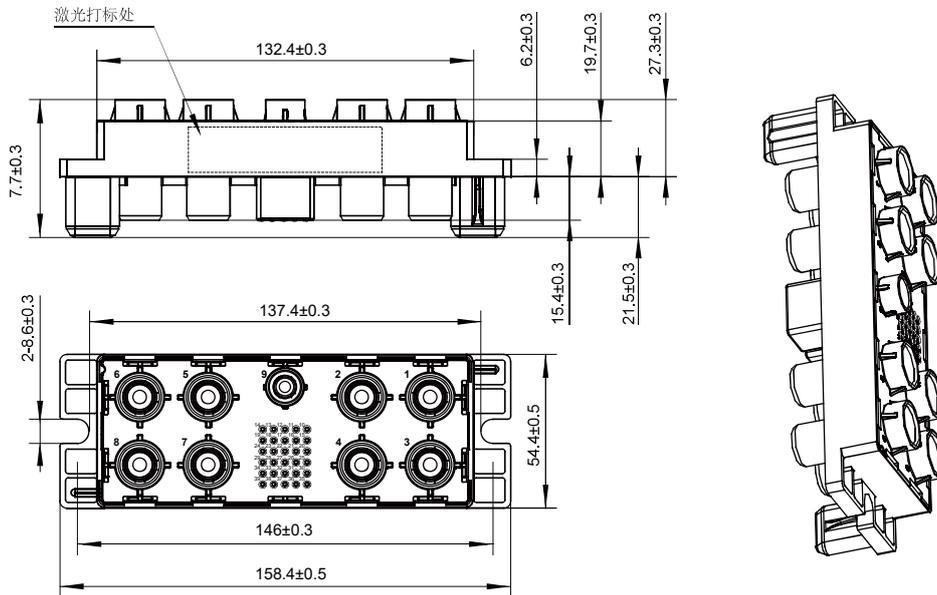
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 2.00

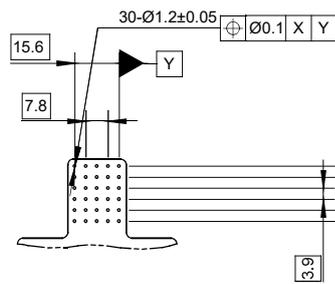
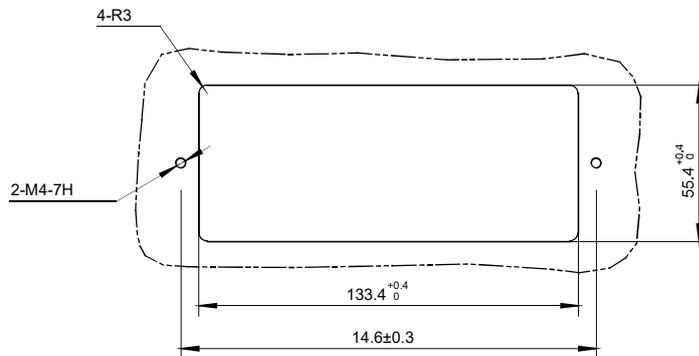
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



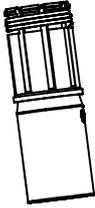
PCB Layout (Bottom view)



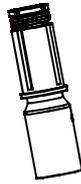
DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø8
Socket component



Ø5
Socket component



Ø1.02
Socket component



Assembly screw M4



SELECTION OF PARTS

Serial No.	Part And Components Name	Material	Finishing	Notes
1	Ø8 Socket component 1	Copper Alloy	Silver plated	Suitable for 35 sq. ft. cable
2	Ø8 Socket component 2	Copper Alloy	Silver plated	Suitable for 25 sq. ft. cable
3	Ø5 Socket component	Copper Alloy	Silver plated	Suitable for 16 sq. ft. cables
4	Ø1.02 Socket component	Copper Alloy	Gold plated	/
5	Assembly screw M4	Mild steel	Galvanizing	/

PRECAUTIONS FOR USE

1. Adapter cable:

35mm² or 25mm² (Recommended: Ø8 Socket component 1 is suitable for 35mm² cable, Ø8 Socket component 2 is suitable for 25mm² cable, customer's choice according to requirements.);

2. Whether the power Socket component is reliable, refer to the minimum pulling force requirements:

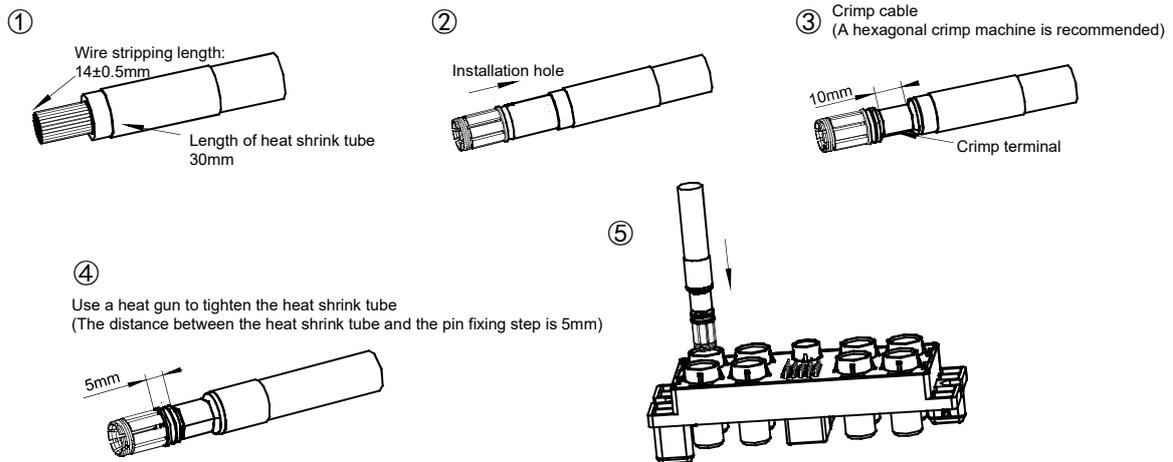
Ø8 Socket component 1 crimp 35mm² cable, minimum pulling force 2200N

Ø8 Socket component 2 crimp 25mm² cable, minimum pulling force 1600N

Ø5 Socket component crimp 16mm² cable, minimum pulling force 1300N

4. The operation process is as follows:

Ø8 Power Socket component 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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