

HFLPR1 socket series

POWER CONNECTOR



Features

- The socket is made of copper and wound spring structure, which integrates the current carrying capacity of copper and the elastic force of spring, greatly improving the current carrying capacity
- It has the characteristics of reliable connection, soft insertion, low contact resistance and high current carrying density
- Used for charging station, UPS power supply, Electric power supply and their control signals
- Mating With: HFLPR1 plug series power connector

RoHS compliant

ELECTRICAL DATA

Rated Voltage	600V
Rated current	60A
Voltage Proof	3000VAC
Contact Resistance	0.4mΩ max.
Insulation Resistance	1000MΩ min.

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

CHARACTERISTICS

Temperature Range	-40°C ~ 180°C
Salt Mist	72h
Humidity Temperature	25°C ~ 40°C, Relative Humidity Refer to GB2423.04, 10 times ³⁾
Temperature life	96 hours at 125°C(+/-5°C) ³⁾
Thermal Shock	-40°C(30 min), +125°C(30 min), 5 times ³⁾
Mechanical Shock	Acceleration of 50g, half sine wave, lasting 11 ms, ±X, ±Y, ±Z direction 3 times each, the current instantaneous break time is less than 1μs ²⁾
Vibration	Frequency 10Hz~55Hz~10Hz, displacement amplitude 1.52mm, each vertical direction lasts for 55 min, the current instantaneous break time is less than 1μs ²⁾
Protection Grade	/
Quality	Approx.21.6g
Marking Mode	Laser etching
Durability	100 Times Min
Termination	Cable crimping

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

- 2) Meet the parts without damage, Insulation resistance and withstand voltage meet the requirements of electrical performance parameters.
3) No physical damage, electrical and mechanical properties meet sequential testing.

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.

ORDERING INFORMATION

Type	HFLPR1-	Z	S	04	V	Y
Type of Connector	Z: Socket					
Type of Contact	S: Receptacle					
No.of Power Contact	04: Fully loaded with 4 Power Contacts					
Structural Form	V: Vertical					
Power pin wiring method	Y: Crimping cables					



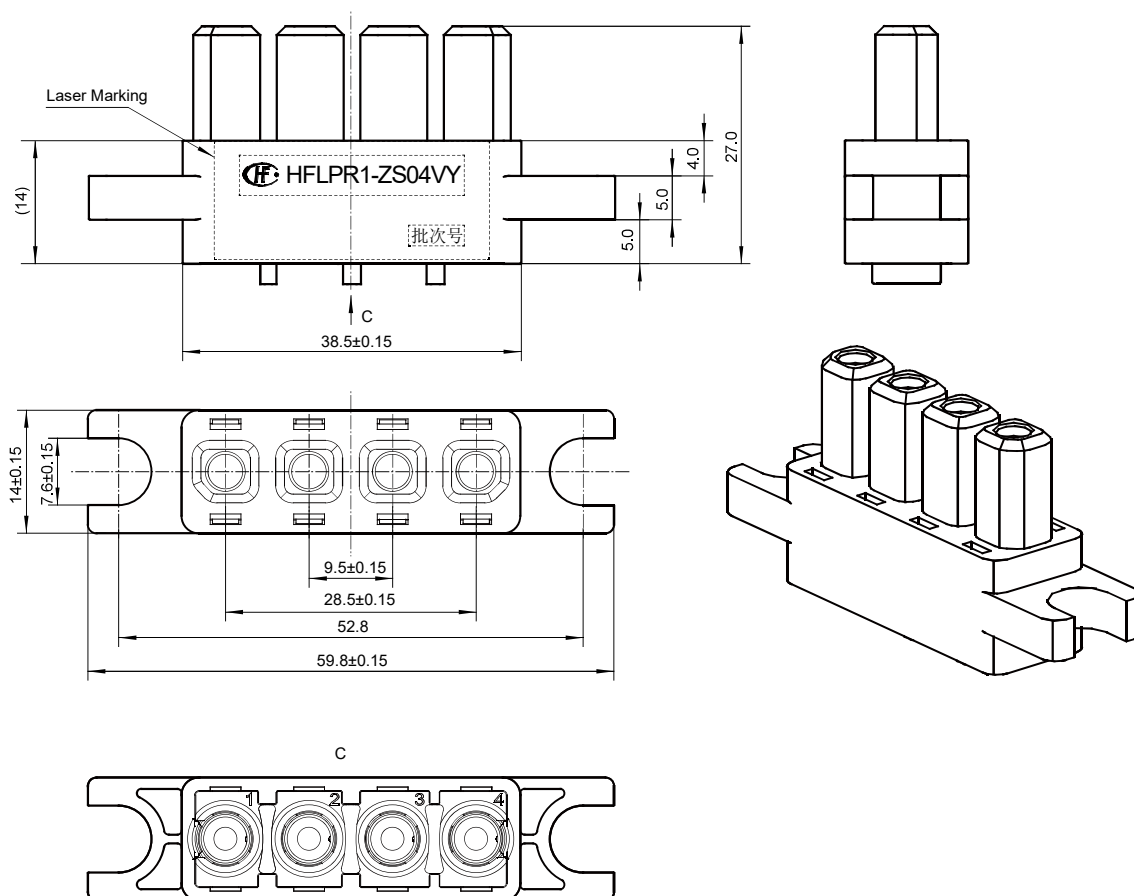
HONGFA POWER CONNECTOR SOCKET

2024 Rev. 1.00

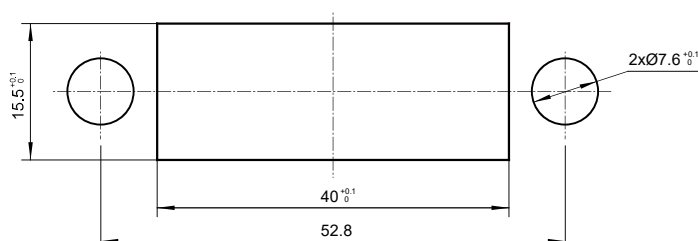
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



PCB Layout (Bottom view)

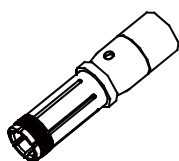


DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø3.6 Socket component

Assembly screw M4



SELECTION OF PARTS

Serial No.	Part And Components Name	Material	Finishing
1	Ø3.6 Socket component	/	/
2	Assembly screw M4	Steel	galvanizing

PRECAUTIONS FOR USE

1. Adapter cable:

8mm² ~ 10mm² (Recommended: flame-retardant cable with Voltage Resistance of 600VDC, Temperature Resistance of -40°C to 150°C and Conductor Cross Section of 10mm²).

Example: ISO6722 AC600V 150°C Single core unshielded 10mm², SUL3289 AWG8).

2. Recommendation for heat shrink tube: Temperature Resistance $\geq 125^{\circ}\text{C}$, Voltage Resistance 2500VAC/1min, Thickness $\geq 0.3\text{mm}$ after heat shrink;

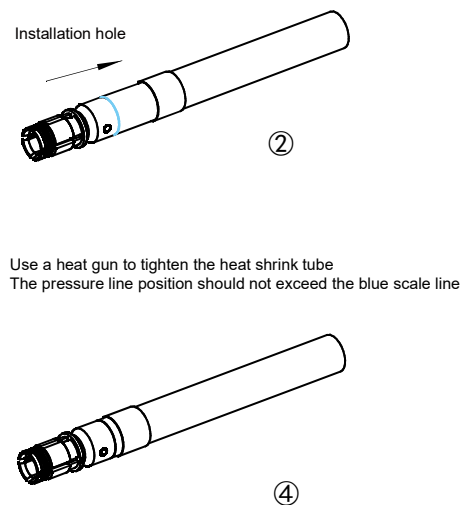
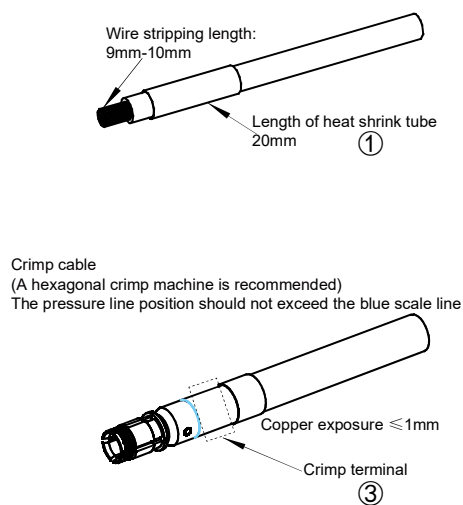
3. Whether the metal jack press line is reliable, refer to the minimum pulling force requirements:

Conductor Cross Section 10mm², minimum pulling force 400N

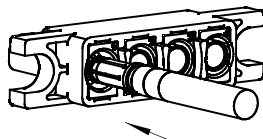
4. Outside diameter of metal terminal covered with heat shrink tube after heat shrink: $\leq \varnothing 7.5\text{mm}$

5. The operation process is as follows:

Connect the AC input cable (crimp)



Power cord production



Disclaimer

The specification is for reference only. See to "Terminology and Guidelines" for more information. 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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