

HFLPR13 socket series

POWER CONNECTOR



Features

- The socket contact uses red copper with coiled spring structure, integrating high current-carrying capacity and spring elasticity for greatly improved current rating
- Features reliable connection, smooth mating, low contact resistance and high current density.
- Suitable for charging piles, UPS, power supplies and control signals
- Mating With:
HFLPR13-TP04RB Power connector plug

RoHS compliant

ELECTRICAL DATA

Rated Voltage	1000V
Rated current	150A
Voltage Proof	3000VAC
Contact Resistance	$\leq 0.4\text{m}\Omega$
Insulation Resistance	$\geq 3000\text{M}\Omega$

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

STORAGE REQUIREMENT

Environment temperature	-10°C to $+40^{\circ}\text{C}$
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
Damp heat, cyclic	25°C to 55°C , Relative humidity $\geq 95\%\text{RH}$, 6 cycles ⁽³⁾
Temperature life	168 hours at $125\pm 2^{\circ}\text{C}$ ⁽³⁾
Thermal Shock	-40°C (30 min), $+125^{\circ}\text{C}$ (30 min), 5 times ⁽³⁾
Mechanical Shock	Acceleration of 30m/s^2 , half sine wave, lasting 11ms, $\pm X$, $\pm Y$, $\pm Z$ direction 3 times each, the current instantaneous break time is less than $1\mu\text{s}$
Vibration	Frequency $10\text{Hz} \sim 55\text{Hz} \sim 10\text{Hz}$, AM 0.75mm , each vertical direction lasts for 2h, the current instantaneous break time is less than $1\mu\text{s}$
Protection Grade	IP20
Quality	Approx. 86.8g
Marking Mode	Laser etching
Durability	500 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

Type	HFLPR13	-Z	S	04	V	Y
Type of Connector	Z: Socket					
Type of Contact	S: Female					
No. of Power Contact	04: 4 Power Contacts					
Structural Form	V: Vertical					
Power pin wiring method	Y: Crimping cables					



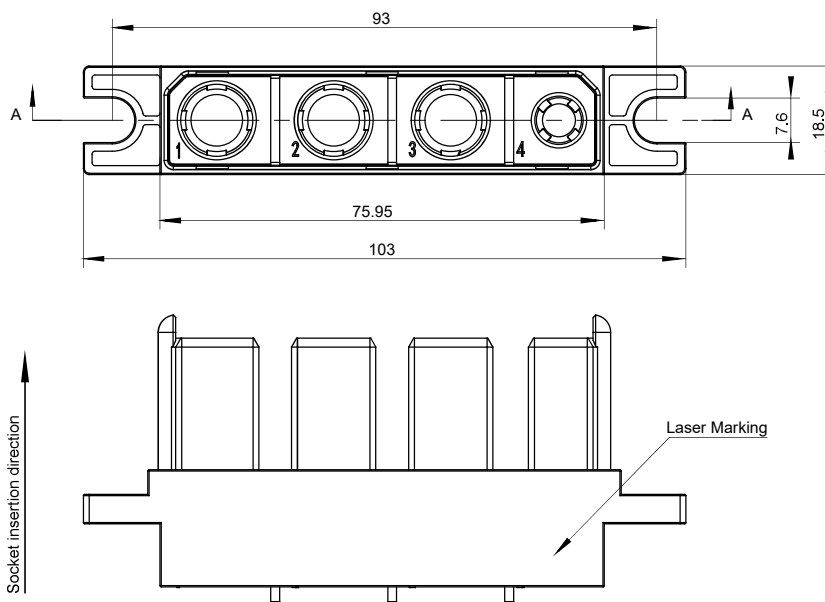
HONGFA POWER CONNECTOR SOCKET

2026 Rev. 1.00

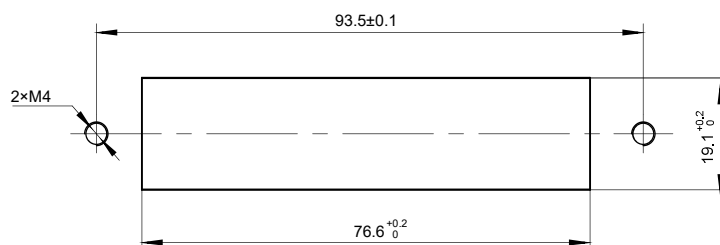
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



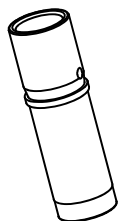
PCB Layout
(Bottom view)



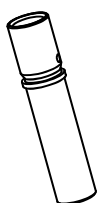
DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø8 Female



Ø5 Female



Assembly screw M4



SELECTION OF PARTS

Serial No.	Part And Components Name	Material	Finishing
1	Ø8 Female	Copper Alloy	Silver plated
2	Ø5 Female	Copper Alloy	Silver plated
3	Assembly screw M4	35#	Zinc plated

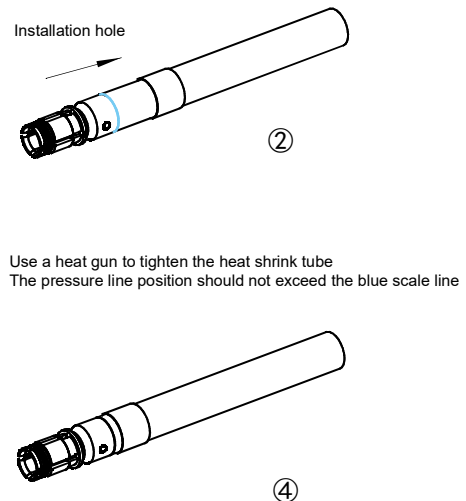
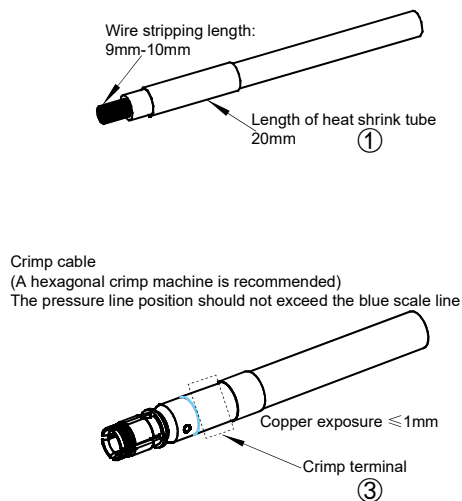
PRECAUTIONS FOR USE

1. Adapter cable:

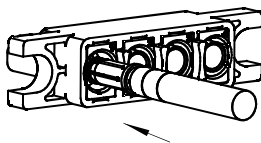
Ø8 power contact: 35mm² / 2AWG; Ø5 ground contact: 16mm² / 5AWG.

2. The operation process is as follows:

Connect the AC input cable (crimp) ❖❖❖



Power cord production ❖❖❖



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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