

HFLXPR3-F4V-1

POWER CONNECTOR SOCKET



Features

- The contact are made of copper alloys with high conductivity
- It has the characteristics of reliable connection, soft insertion, low contact resistance and high current carrying density
- The use of crown springs for contact ensures contact reliability
- Power distribution module for DC charging station, also suitable for industrial equipment electricity Source module
- Mating With: HFLXPR3-M4V-1 Power connector plug

RoHS compliant

ELECTRICAL DATA

| | | |
|-----------------------|--------------------------------------|------------|
| Rated Voltage | | 1000VAC |
| Rated current | | 150A |
| Voltage Proof | Normal | 3000VAC |
| | After environmental test | 1500VAC |
| | After temperature and humidity cycle | 1500VAC |
| Contact Resistance | Normal | 0.5mΩ Max |
| | After environmental test | 0.6mΩ Max |
| Insulation Resistance | Normal | 3000MΩ Min |
| | After environmental test | 100MΩ Min |
| | Test voltage (DC) | 500V±50V |

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

STORAGE REQUIREMENT

| | |
|-------------------------|---|
| Environment temperature | -10℃ to +40℃ |
| 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 | -55℃ to 125℃ |
| Voltage surge | / |
| Salt Mist | 48h |
| Humidity Temperature | 40℃, 90% to 95%RH, 96h; No damage to parts ⁽²⁾ |
| Temperature life | 432 hours at 125℃ ⁽²⁾ |
| Thermal Shock | -55℃(30 min), +125℃(30 min), 15℃/min, 5 times ⁽³⁾ |
| Mechanical Shock | Acceleration of 100g, half sine wave, lasting 11 ms, ±X, ±Y, ±Zdirection 3 times each, the current instantaneous break time is less than 1μs ⁽²⁾ |
| Vibration | Frequency 10Hz~55Hz~10Hz, displacement amplitude 0.75mm, 55Hz~2000Hz~55Hz, acceleration of 15g, the current instantaneous break time is less than 1μs ⁽²⁾ |
| Protection Grade | / |
| Quality | Approx.73g |
| Marking Mode | Laser etching |
| Durability | 500 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) The parts should not be damaged, and the contact resistance should meet the requirements of electrical performance parameters.

4) Meet the parts without damage, withstand voltage meet the requirements of electrical performance parameters.

ORDERING INFORMATION

| | | | | | |
|-----------------|---------------|----|---|---|----|
| Type | HFLXPR3 | -F | 4 | V | -1 |
| Type of Contact | F: Female | | | | |
| No.of Contact | 4: 4 Contacts | | | | |
| Structural Form | V: Vertical | | | | |
| Extension No. | 1: Extension | | | | |



HONGFA RELAY

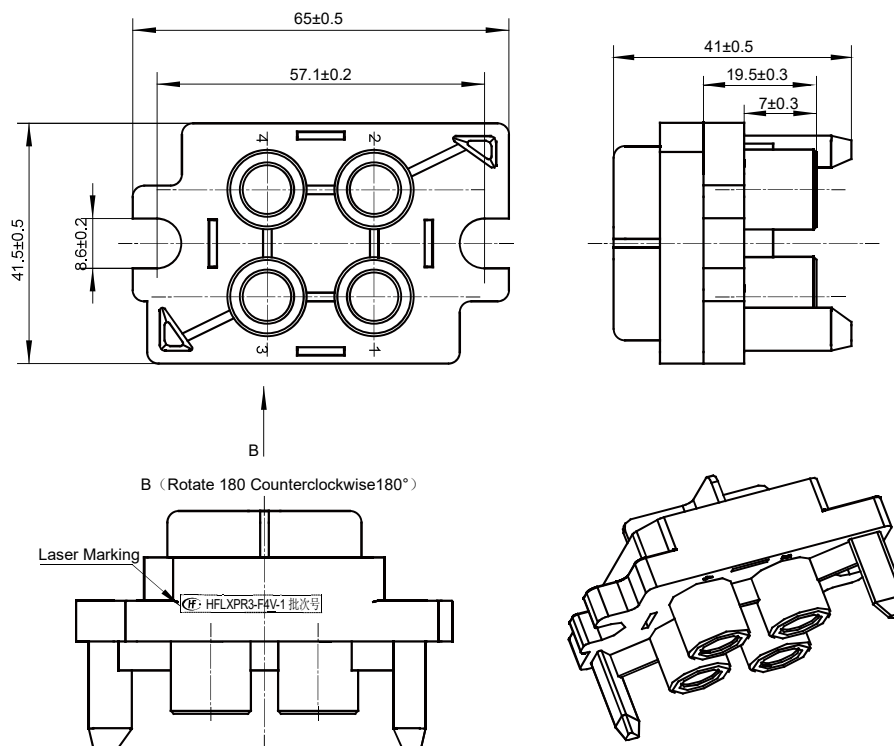
ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000 CERTIFIED

2023 Rev. 1.00

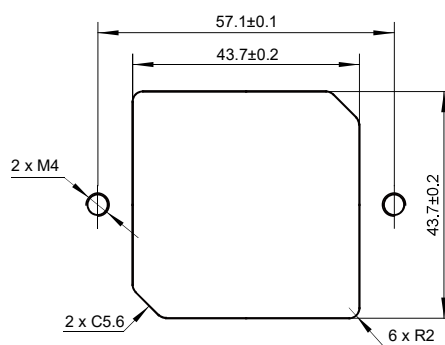
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



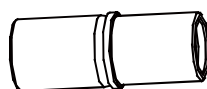
PCB Layout (Bottom view)



DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø8 Socket



SELECTION OF PARTS

| Serial No. | Part And Components Name | Material | Finishing |
|------------|--------------------------|--------------|---------------|
| 1 | Mounting Plate | PBT | / |
| 2 | Cover Plate | PBT | / |
| 3 | Ø8 Crown Spring | Copper Alloy | Silver plated |
| 4 | Ø8 Socket | Brass | Silver plated |
| 5 | 2# Claw | Copper Alloy | Cu/Ct-P |

PRECAUTIONS FOR USE

1. Adapter cable:

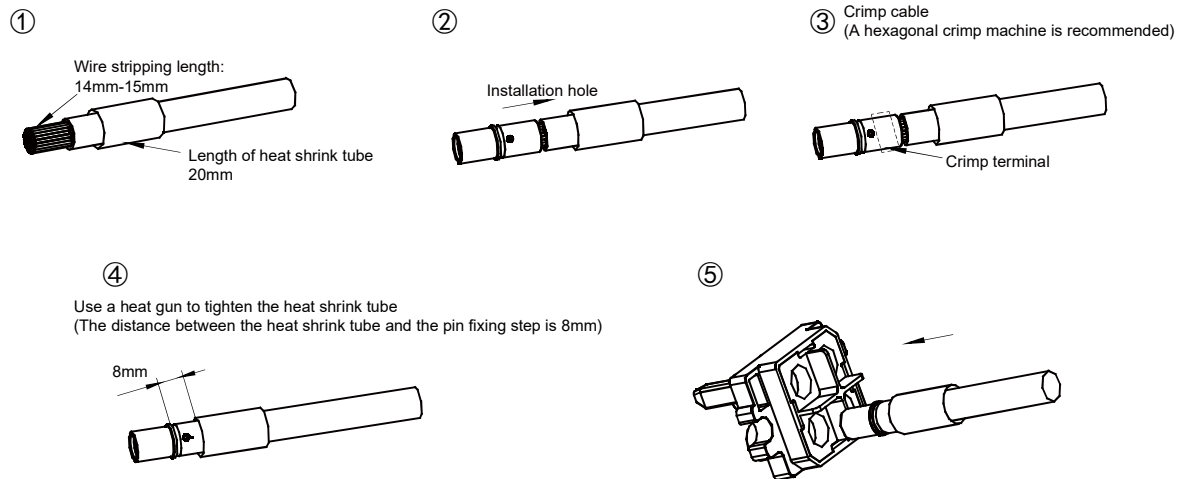
35mm²(Recommended: flame-retardant cable with rated voltage of 300V to 600VAC and temperature resistance of 125°C);

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

Conductor Cross Section 35mm², minimum pulling force 2058N

3. Outside diameter of metal terminal covered with heat shrink tube after heat shrink: ≤12.0mm

4. The operation process is as follows:



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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