HFLPR9 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:
  HFLPR9 plug series power connector

RoHS compliant

ELECTRICAL DATA

Rated Voltage	Power: 1000V; Signal: 60V
Rated current	Power: 135A; Signal: 60A
Voltage Proof	Between power：3000V; Between signals:1000V: Between power and signal：3000V
Contact Resistance	⩽ 0.6mΩ
Insulation Resistance	⩾3000MΩ

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℃
Salt Mist	48h
Constant heat and humidity	40℃，Relative humidity of 95%, steady-state damp heat effect for 96 h[2)]
Temperature life	168 hours at 125±5℃[2)]
Thermal Shock	-55℃(30 min)，+125℃(30 min)，5 times[2)]
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
Vibration	Frequency 10Hz ~ 500Hz ~ 10Hz, displacement amplitude 1.52mm,each vertical direction lasts for 55 min,the current instantaneous break time is less than 1μs
Protection Grade	/
Quality	Approx.59.1g
Marking Mode	Laser etching
Durability	1000 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

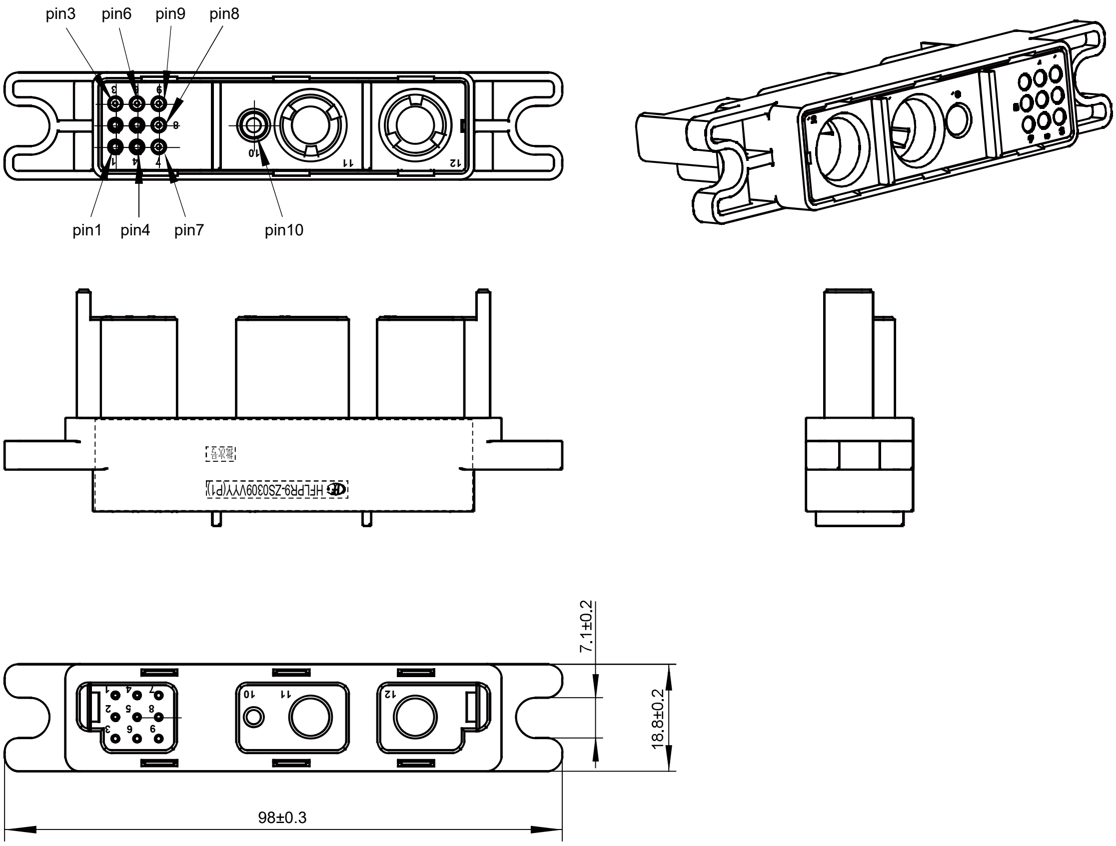
HFLPR9-	Z	S	03	09	V	Y	Y	(XXX)

Type	
Type of Connector	**Z:** Socket
Type of Contact	**S:** Receptacle
No.of Power Contact	**03:** Fully loaded with 3 Power Contacts
No.of Signal Contact	**09:** Fully loaded with 9 Signal Contacts
Structural Form	**V:** Vertical
Power pin wiring method	**Y:** Crimping cables
Signal pin wiring method	**Y:** Crimping cables
Special code	**XXX:** Customer special requirement

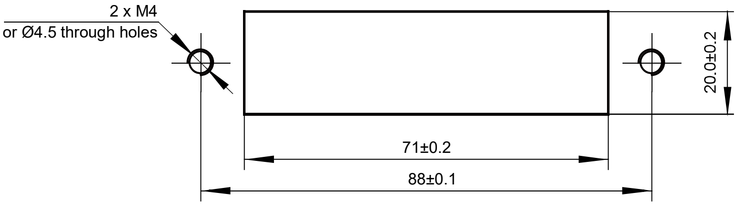
OUTLINE DIMENSIONS AND PC BOARD LAYOUT

Unit: mm

Outline Dimensions



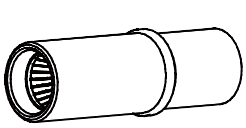
PCB Layout
(Bottom view)



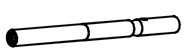
DIMENSION OF RELATED ACCESSORY(Package delivery)

Unit: mm

Ø6.35 Socket component



Ø1.02 Socket component



Assembly screw M4

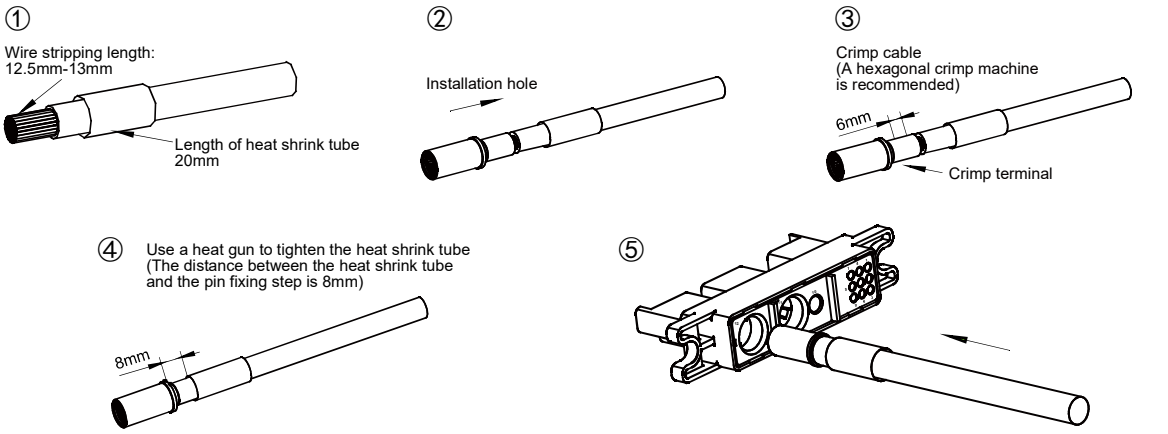
SELECTION OF PARTS

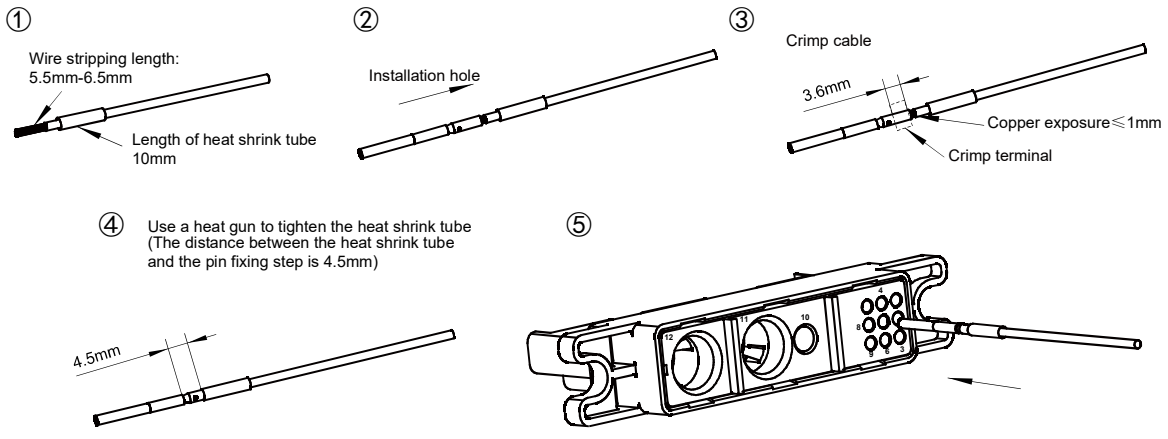
Serial No.	Part And Components Name	Material	Finishing
1	Ø6.35 Socket	/	/
2	Ø1.02 Socket	/	/
3	Assembly screw M4	Steel	Galvanized

PRECAUTIONS FOR USE

1. Adapter cable：
   Power: 20mm² ~ 26mm²(Recommended: 6AWG flame-retardant cable with rated voltage of 1000VAC ~ 1500VAC and temperature resistance of 125°C);
   Signal: 24AWG (Recommended: flame-retardant cable with rated voltage of 300VAC and temperature resistance of 80°C);
2. Whether the metal jack press line is reliable, refer to the minimum pulling force requirements：
   Ø6.35 Socket:712N；Ø1.02 Socket：28N.
3. Outside diameter of metal terminal covered with heat shrink tube after heat shrink：
   Ø6.35 Socket：≤Ø11mm；Ø1.02 Socket：≤Ø1.7mm。
4. The operation process is as follows：

Connect the DC input cable (crimp)





Disclaimer

The specification is for reference only. SSpecifications 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.