

HFLPR9 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: HFLPR9 socket 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	$\leq 0.6m\Omega$
Insulation Resistance	$\geq 3000M\Omega$

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

CHARACTERISTICS

Temperature Range	-55°C to 125°C
Salt Mist	48h
Constant heat and humidity	40°C, Relative humidity of 95%, steady-state damp heat effect for 96 h ²⁾
Temperature life	168 hours at 125±5°C ²⁾
Thermal Shock	-55°C(30 min), +125°C(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. 58.4g
Marking Mode	Laser etching
Durability	1000 Times Min
Termination	PCB

- 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.

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	HFLPR9-	T	P	03	09	R	B	B	(XXX)
Type of Connector	T: Plug								
Type of Contact	P: Contact pin								
No. of Power Contact	03: Fully loaded with 3 Power Contacts								
No. of Signal Contact	09: Fully loaded with 9 Signal Contacts								
Structural Form	R: Right angle								
Power pin wiring method	B: PCB								
Signal pin wiring method	B: PCB								
Special code	XXX: Customer special requirement								



HONGFA RELAY

ISO9001, IATF16949, ISO14001, ISO45001, IECQ QC 080000, ISO/IEC 27001 CERTIFIED

2024 Rev. 3.00

