

POWER CONNECTOR



www.hongfa.com



HONGFA
GROUP

INTRODUCTION

Hongfa Group, listed as stock code 600885, is a professional enterprise specializing in the research, development, production, and sales of relays. Established in 1984, after more than 40 years of effort, Hongfa has evolved into the world's largest relay manufacturer, with over 30 wholly-owned and holding subsidiaries, and an annual production capacity of 3 billion relays. Additionally, Hongfa manufactures connectors, low-voltage electrical equipment, contactors, capacitors, precision parts, automation equipment, and other products.

Sichuan Hongfa, situated in the Zhongjiang High-tech Zone of Deyang City, Sichuan Province, was established in 2006. It is a state-level high-tech enterprise focusing on the research, development, production, and sales of power relays and precision connectors. As a wholly-owned subsidiary of Hongfa Group invested in Sichuan, our product range encompasses communication connectors, power connectors, and more. Sichuan Hongfa's power connector products find wide application in automotive charging piles, industrial equipment, power supply communication, server power supply, and other sectors.

Hongfa has always been dedicated to enhancing the competitiveness and energy efficiency of the new energy industry, focusing on the global mainstream demand for "environmental protection, science and technology, low carbon, and green." Relying on advanced intelligent manufacturing technology, we provide customers with comprehensive and reliable solutions in the field of new energy vehicles.

Looking ahead, Hongfa will spare no effort to establish three domestic R&D and production bases. As one of the core bases in the west among these three, Hongfa will continue to embody the enterprise spirit of "continuous progress, never satisfied," striving to become a model in the global micro home appliance relay industry and a professional connector manufacturing supplier.

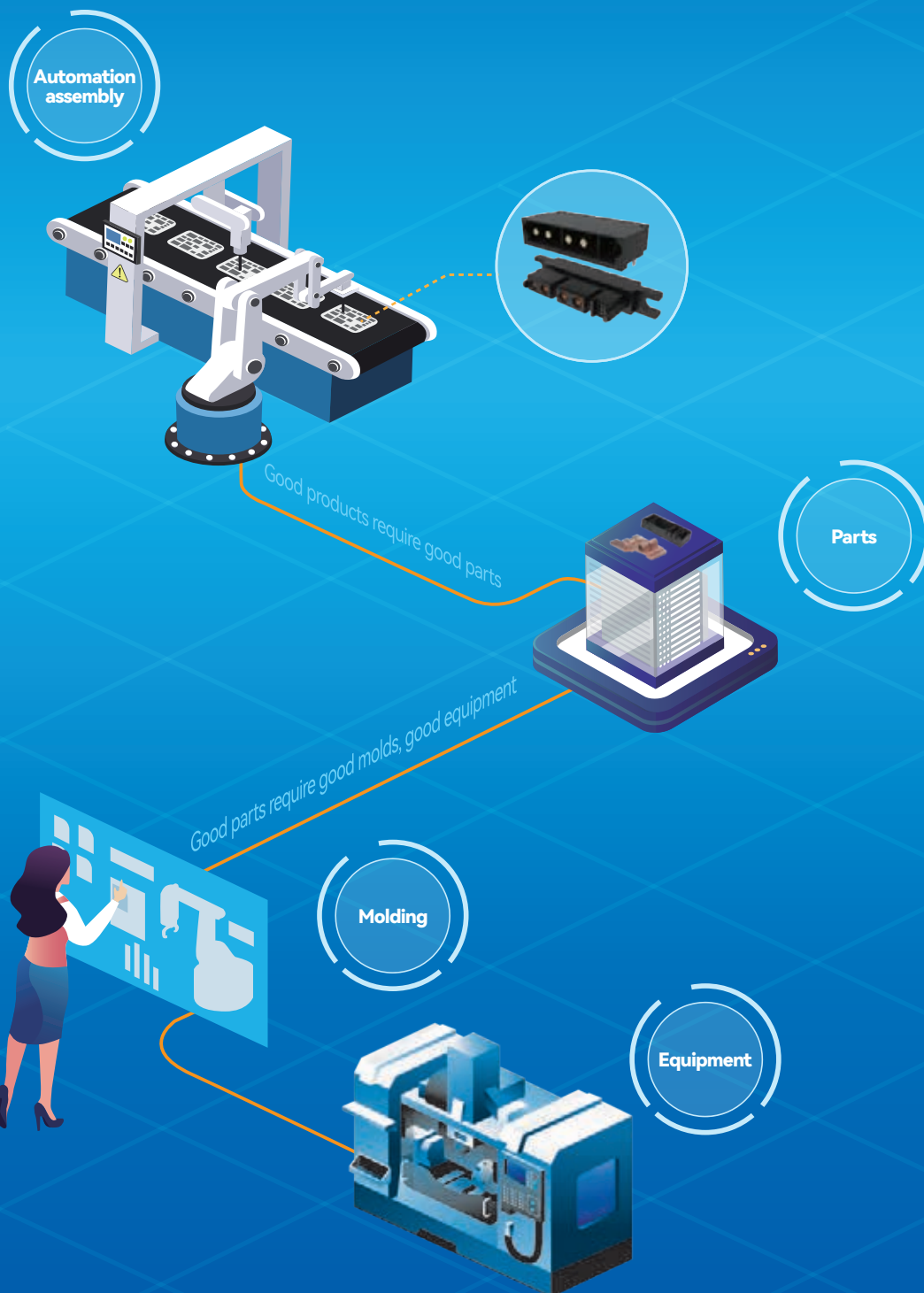
Sichuan Hongfa is willing to join hands with you to create brilliance together!



HONGFA TECHNOLOGY
FOR A BETTER LIFE

Manufacturing Industry Chain

"Hongfa started from the quality control and production efficiency of the entire industrial chain, creating an independent supporting industry chain of molded parts equipment manufacturing and automated assembly, establishing core advantages that are difficult to emulate.





High-precision mold manufacturing

Over **70 sets** of world-class mold processing equipment



High-quality parts matching

555+ARBURG Injection Molding Machines
30+BRUDERER High Precision and High-speed Punches



Leading Machining center

Mazak 5-axis Precision Machining Center
HONGFA Forging System
TSUGAMI Precision Automatic Lathes
Brother Universal Compact Machining Center



Leading surface treatment technology

20+ Electroplating lines
Gema Powder spraying line



Automatic Assembly

300+ Automatic production lines
over **80%** Automation level



LEADING TEST CENTER

Network Analyzer 67G max
Environmental Reliability
Material and Plating analysis





Product Overview

- Board-to-Wire connectors. Developed for charging modules, also applicable to energy storage and photovoltaic power modules
- 4 Power contact, Matching the design requirements of 20kW to 60kW power modules
- Blind-insert design, convenient plug in and out, reliable contact, easy maintenance
- Withstand high temperatures and salt spray, suitable for use in harsh environments
- Compliant with RoHS requirements
- Compliant with UL, TÜV requirements

Advantages

- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- High-strength, high-temperature-resistant plastic housing, with a maximum operating temperature of up to 180°C
- Provides flexible solutions for multiple current levels

SPEC

Product Series	Position	Rated Current	Rated voltage	Voltage Proof	Operation Temp	Terminal type
HFLXPR1	4P	60A	600Vac	3000Vac	-40℃ ~ 180℃	Plug: PCB Soldering Receptacle: Power: Crimping Signal: PCB Soldering
HFLPR1-1	4P	45A			-40℃ ~ +125℃	
HFLXPR5	4P	80A				
HFLPR8	4P	135A				



Product Overview

- Board-to-Wire connectors
- 4 High-Current Power contact, Meeting High-Current Input and Output Requirements
- Blind-insert design, convenient plug in and out, reliable contact, easy maintenance
- Withstand high temperatures and salt spray, suitable for use in harsh environments
- Compliant with RoHS requirements

Advantages

- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Position	Rated Current	Rated voltage	Voltage Proof	Operation Temp	Terminal type
HFLXPR2	4P+8S	P:70A S:3A	1000Vdc	3000Vac	-40℃ ~ 180℃	Plug: PCB Soldering Receptacle: Power: Crimping Signal: PCB Soldering
HFLXPR2-3 HFLXPR2-1	4P+8S	P:85A S:3A			-40℃ ~ +125℃	
HFLXPR6	6P+8S	P:80A S:3A				
HFLPR9	2P+9S	P:135A S:3A				

Power Distribution Unit (PDU)



Product Overview

- Board-to-Wire connectors
- 4 High-Current Power contact, Meeting High-Current Input and Output Requirements
- Blind-insert design, convenient plug in and out, reliable contact, easy maintenance
- Withstand high temperatures and salt spray, suitable for use in harsh environments
- Compliant with RoHS requirements

Advantages

- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Position	Rated Current	Rated voltage	Voltage Proof	Operation Temp	Terminal type
HFLXPR3	4P	150A	1000Vdc	3000Vac	-40°C ~ 125°C	Crimping

Product Application



DC Charger

Power Cube



Charger Power Module



Power Distribution Unit (PDU)



DC Charging Pile Solution

Power Connector



AC: HFLPR1/5/8
600Vac, 45A~135A

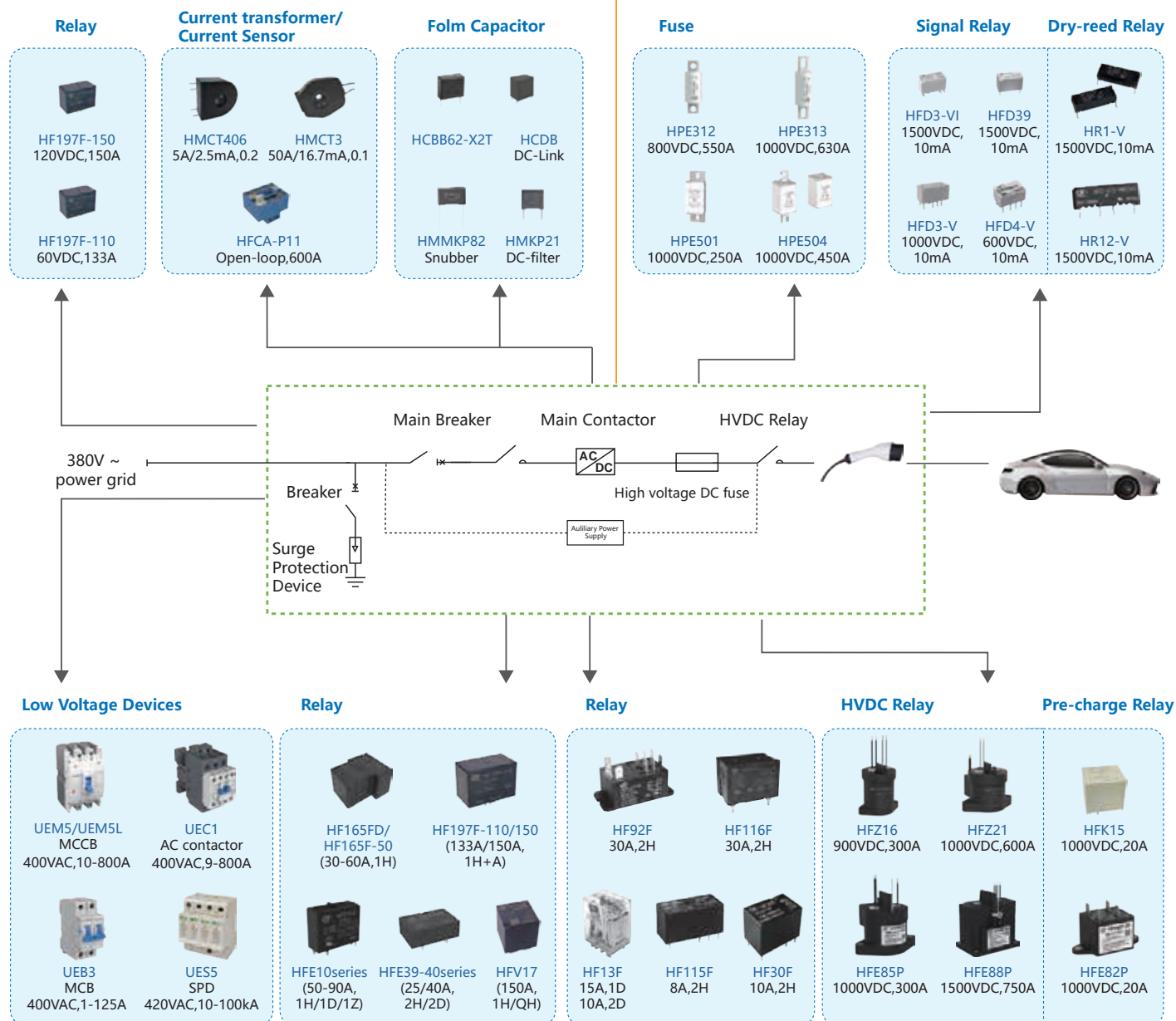


DC+Signal: HFLPR2/6/9
1000Vdc, 60A~135A



PDU: HFLPR3
1000VDC, 150A

Suitable for 20~60kW charging modules



ESS(Energy storage system) Connector



Product Overview

- For fast and safe installation of energy storage systems
- Can be rotated 360° before locked
- Touch-protected and no incorrect plugging
- Compliant with RoHS requirements
- Compliant with UL requirements
- IP67 Waterproof

Advantages

- Patented multi-contact spring structure, low contact resistance and high reliability
- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- Self-locking fixed design ensures reliability
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Type	Rated Current	Cable Size	Rated Voltage	Voltage Proof	Operation Temp	Protection Grade	Terminal type
HFLPC2-A16	Ø6	80A	16mm ²	1500Vdc	6800Vac	-40℃ ~ +125℃	IP67	Crimping Threaded Post Busbar
HFLPC2-A25		120A	25mm ²					
HFLPC2-B35	Ø8	150A	35mm ²					
HFLPC2-B50		200A	50mm ²					
HFLPC2-C70	Ø10.3	250A	70mm ²					
HFLPC2-C95		300A	95mm ²					
HFLPC2-D120	Ø12	350A	120mm ²					





Product Overview

- Wire-to-Wire connector and panel mounted
- Used for UPS or PCS equipment with hybrid power and signal contacts
- Withstand high temperatures and salt spray, suitable for use in harsh environments
- Compliant with RoHS requirements

Advantages

- Sufficient signal contacts position
- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Position	Rated Current	Rated Voltage	Voltage Proof	Operation Temp	Terminal type
HFLPR12	9P+30S	P:80~160A S:5A	P:1500Vdc S:100Vdc	5700Vac	-40°C ~ +125°C	Crimping

Product Application



HVCB



PCS



Battery Module

Utility Storage System

Power Connector



Fuse



Current Sensor



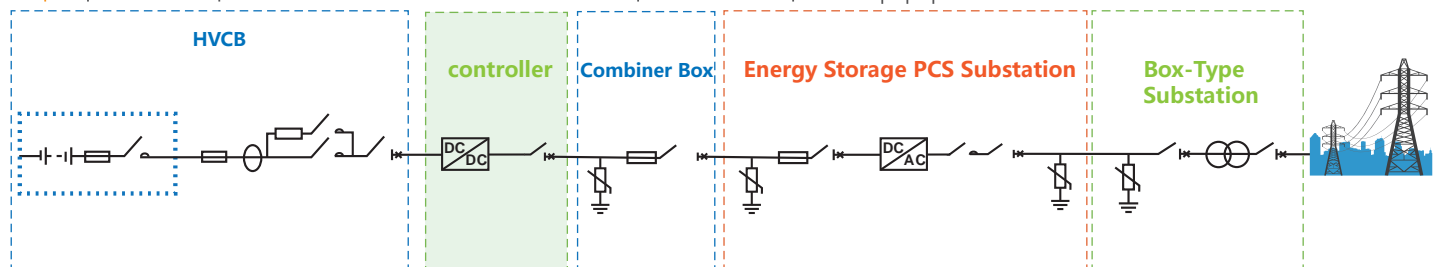
Film Capacitor



Current Transformer



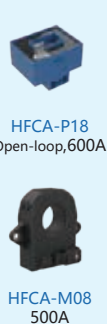
Power Transfer



Signal Relay



Current sensor



HVDC Relay



DC /MCCB



DC Disconnect



Signal Relay



AC ACB



Commercial Storage System

Power Connector



HFLPC2-A/C
1500VDC,80-300A

Fuse



Current Sensor



Film Capacitor



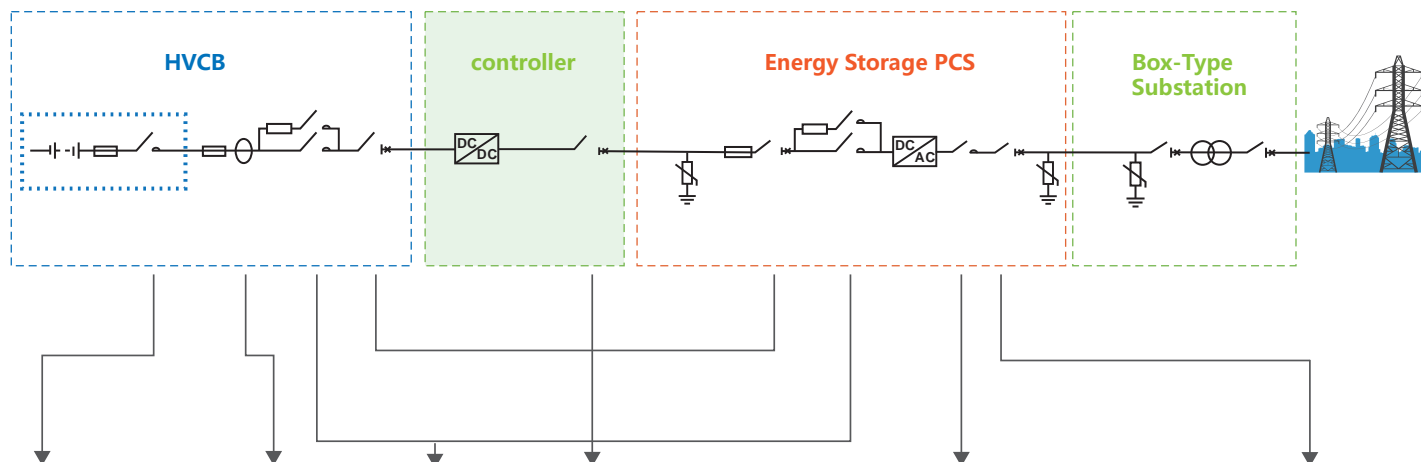
Current transformer



Signal Relay



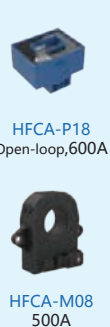
Power Transfer



Signal Relay



Current Sensor



HVDC Relay



Precharge Relay



DC/MCCB



Power Relay/Latching Relay



AC/ACB



Connector for server power supplier



Product Overview

- Board-to-Board Receptacle,Compliant with CRPS requirements
- Adapted to main server power supply
- Compliant with RoHS requirements

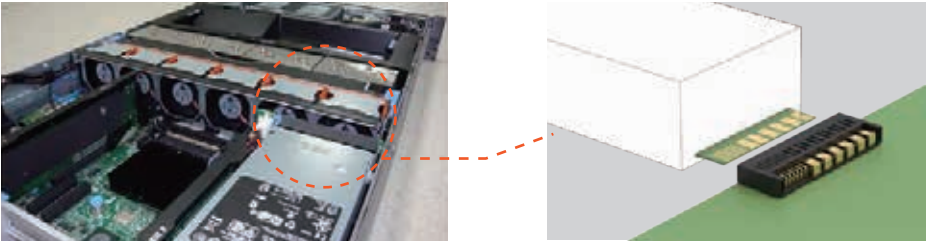
Advantages

- Sufficient signal contacts position
- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Position	Rated Current	Rated Voltage	Voltage Proof	Operation Temp	Terminal type
HFLPP1	50	7A	250Vdc	1000Vac	-5℃ ~ +105℃	Board Mount
HFLPP3	40(16P +24S)	AC:25A DC:60A S:3A	AC:300Vac DC:60Vdc S:60Vdc	2000Vac	-40℃ ~ +95℃	

Product Application





Product Overview

- Printed Circuit Board connector
- Adapted to 3kW and 4kW Communication power supplier
- Busbar mounted power contacts and crimped signal wires
- Withstand high temperatures and salt spray, suitable for use in harsh environments
- Compliant with UL requirements
- Compliant with RoHS requirements

Advantages

- Sufficient signal contacts position
- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- Contact made by precision high-speed punch
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Rated Current	Rated Voltage	Voltage Proof	Operation Temp	Durability	Terminal type
HFLXPR7	AC:30A DC:100A S:1A	AC:420Vac DC:420Vdc S:72Vdc	4000Vac max	-40°C ~ +125°C	>500 Cycles	Power: Screws Signal: Crimping



Product Overview

- Board-to-Wire connectors
- Adapted to rectifier module of DC Screen
- Withstand high temperatures and salt spray, suitable for use in harsh environments
- Compliant with RoHS requirements

Advantages

- Sufficient signal contacts position
- Utilizes high-conductivity materials, with high current-carrying capacity, low temperature rise, and low loss
- High-strength, high-temperature-resistant plastic housing

SPEC

Product Series	Rated Current	Rated Voltage	Voltage Proof	Operation Temp	Durability	Terminal type
HFLXPR4	7P+11S	P:35A S:5A	250Vac	2500Vac	-55°C ~ +125°C	Plug: PCB Soldering Receptacle: Crimping





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