

LP SERIES
LP Shortcut
Waterproof Connector

LP waterproof connector application type

CNLINKO 's LP series multi-application waterproof connector adopts its own patented snap-button connection method, which can realize one-key unplugging and one-handed operation, and is suitable for various fast and efficient operation scenarios. It adopts multiple patented waterproof structure design, which has high waterproof performance and can avoid the intrusion of external water liquid; the overall appearance design of this series is simple and elegant, in line with the principle of ergonomic design, and can meet the requirements of anti-interference, high strength, and high corrosion resistance in different scenarios.

Series product information:

Series code:	LP- 12 、LP- 16 、LP- 20 、LP- 24 、LP- 28
Hole size:	Please refer to the external dimension drawing for detailed hole size.
Application types:	Multi-pin type (2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 19, 24 pin and customized 3+2, 2+6, 2+7, 2+1+5 pin, etc.) Signal (RJ45, optical fiber) Data (USB2.0, USB3.0, HDMI2.0,HDMI2.1, Type-C)
Material type:	Plastic type, plastic + metal type, metal type

Introduction:

Product types include power, multi-pin, hybrid, USB2.0, USB3.0, HDMI, Type-c, RJ45, optical fiber eight types. Plastic shell, light weight, good toughness, metal shell, high impact strength, using snap-lock, one-handed operation, simple operation, safe and reliable.

Main body material, process and surface treatment:

Shell:	Material: Engineering Plastic/Metal	Surface treatment: Chrome plating
	Production Process: Die-casting and injection	

Module material, process and surface treatment:

Contact:	Material: Male/Female Pin (Copper Alloy)	Production Process: Machining & Stamping
	Surface Treatment: Gold plated over nickel	
LC Fiber Contact Material:	Male/Female end (High Modulus Glass Fiber)	
Insulator:	Material: Engineering Plastic	Production process: injection molding

Packaging and Storage:

The product is in a sealed bag, with a small box in the large box, and a label on the small box. The label indicates the product name, model, batch number, and number of products. Packaged products are recommended to be stored in a warehouse with an ambient temperature of 25°C±3°C,a relative humidity of ≤72%, and no acidic, alkaline and other corrosive gases in the surrounding air. Other storage environments may affect product life.

Check the official website LP series area:

Scan the QR code below to check the LP area of CNLINKO's official website. If you have any doubts, you can contact the online customer service for more detailed product information.



QR code of LP series



Installation Video of LP Series

Applications



LP-24 series products are used in a mechanical equipment control box

Features Overview



Easy to use, fast and convenient

LP series adopts snap connection design, easy to use, one-handed operation, fast and convenient.



High waterproof performance

The product can reach the IP65 protection level or above in the connected state. At present, it is standard IP65. Users can choose IP67 or IP68 level according to their needs.



Cold and heat resistance

Can adapt to a wide range of high and low temperature ambient temperatures: -25~+85°C for plastic and -40~+85°C for metal.



More efficient and reliable transmission

The contact parts are made of high-end imported copper alloy, and the surface is gold-plated to ensure long-term stability of the contact resistance value and efficient and reliable transmission performance of the connector.

Type and Style



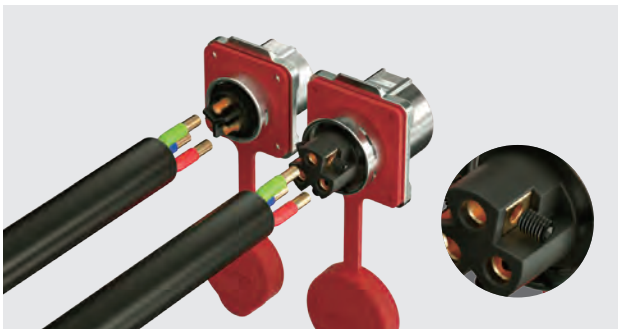
Multiple styles

All-plastic/all-metal/semi-metal three types are available, which can meet the differentiated needs of users for high corrosion resistance, anti-interference, and high strength.



Flexible installation

The LP series has four installation methods: single-hole threaded receptacle, four-hole flange receptacle, two-hole flange receptacle, and floating connection. Users can choose according to actual application scenarios.



Users can choose a variety of wiring methods

The LP series provides product types with three connection methods: locking screw, riveting and soldering. Locking screw is quick and convenient, and soldering is more reliable.



Color can be customized, your exclusive style

The LP series can now provide customized services in white, blue and other colors of the shell body to meet the personalized needs of users.

Product Structure Image

Dozens of high-quality parts are precisely engaged to ensure the safety and stability of the connector.



Series Infographic



LP-12 Series Information Overview			P23
Product application type:	Power: 2/3/4 pins		
	Signal: 5/6/7/8 pins		
	Voltage Rating: 125V (2~6pins) , 100V (7~8pins)		
	Current Rating: 5A (2~6pins) , 3A (7~8pins)		
Cable O.D	Multi-pin type: Φ3.5~4.5mm、Φ4.5~5.5mm、Φ5.5~6.5mm		
Details page:	Product Parameter Map: P23	Dimension Drawing: P27	

LP-16 Series Information Overview			P29
Product application type:	Power: 2/3/4 pins	Data: Type-c	
	Signal: 5/7/8/9 pins, RJ45, Optical fiber		
	Voltage Rating: 400V (2~4pins) , 250V (5、7~9pins)		
	Current Rating:10A (2~4pins) , 5A (5、7~9pins)		
Cable O.D	Multi-pin type: Φ3.0~5.0mm、Φ5.0~7.0mm、Φ7.0~9.0mm		
Details page:	Product Parameter Map: P29	Dimension Drawing: P35	

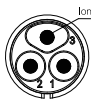
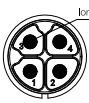
LP-20 Series Information Overview			P37
Product application type:	Power: 2/3/4 pins		
	Signal: 5/7/9/12/14 pin		
	Voltage Rating: 500V (2~5、7pins) , 300V (5pins) , 250V (8-pins hybrid、9、12、14pins)		
	Current Rating: 20A (2~4pins) , 10A (5、7pins) , 20A+5A (8-pins hybrid) , 10A+5A (5-pins hybrid) , 5A (9、12、14pins)		
Cable O.D:	Multi-pin type: Φ5.0~6.5mm、Φ6.5~8.5mm、Φ8.5~10.0mm、Φ10.0~12.0mm		
Details page:	Product Parameter Map: P37	Dimension Drawing: P41	

LP-24 Series Information Overview			P43
Product application type:	Power: 2/3/4 pins	Signal: 10/12/19/24 pins, RJ45, optical fiber	
	Data: USB, HDMI		
	Voltage Rating: 500V (2~4pins) , 400V (10、12pins) , 300V(2、3pins) , 250V (19、24pins) , 230V (3pins)		
	Current Rating:45A(3pins), 35A(2、3pins), 25A(2~4pins), 10A(10、12pins), 5A(19、24pins)		
Cable O.D	Multi-pin type:Φ5.0~7.0mm、Φ7.0~10.5mm、Φ10.5~14.0mm		
	Data type: Φ5.0~Φ7.0mm (USB、HDMI)		
	Signal type: Φ5.0~Φ7.0mm (RJ45) , Φ4.5~Φ6.0mm (Optical fiber)		
Details page:	Product Parameter Map: P43	Dimension Drawing: P45	

LP-28 Series Information Overview			P47
Product application type:	Power: 2/3 pins		
	Signal: 8 pins		
	Voltage Rating: 500V (2~3pins) , 300V (8pins)		
	Current Rating: 50A(2、3pins) , 15A(8pins)		
Cable O.D:	Multi-pin type: Φ10.0~15.0mm, Φ15.0~17.5mm, Φ17.5~20.5mm		
Details page:	Product Parameter Map: P47	Dimension Drawing: P48	

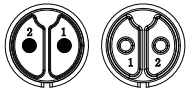
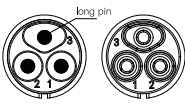
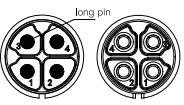
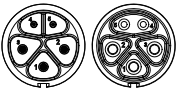
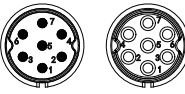
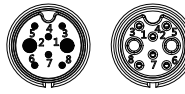
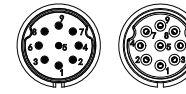
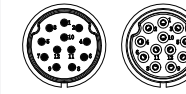
LP-20 Datasheet

LP-20

LP20 Power/Signal	Product Series		LP-20																				
	Pin Number		2PIN		3PIN		4PIN		5PIN		5PIN		7PIN		8PIN		9PIN		12PIN		14PIN		
	Contact Layout		 Male	 Female	 Male	 Female	 Male	 Female	 Male	 Female	 Male		 Female	 Male	 Female	 Male	 Female	 Male	 Female	 Male	 Female	 Male	 Female
	Current Rating(A)		20		20		20		10		10/5		10		20/5		5		5		5		
	Voltage Rating(V)		500		500		500		500		300		500		250		250		250		250		
	Cable O.D(mm)		φ5.0~φ6.5		φ6.5~φ8.5		φ8.5~φ10.0		φ10.0~φ12.0		φ5.0~φ6.5		φ6.5~φ8.5		φ8.5~φ10.0		φ10.0~φ12.0						
	Wire Gauge		2.5~4.0mm²/14-12AWG		2.5~4.0mm²/14-12AWG		2.5~4.0mm²/14-12AWG		1.0~1.5mm²/ 18-16AWG		1.0~1.5mm²/ 18-16AWG 0.34~0.5mm²/22-20AWG		1.0~1.5mm²/ 18-16AWG		2.5~4.0mm²/14-12AWG 0.34~0.5mm²/22-20AWG		0.34~0.5mm²/22-20AWG		0.34~0.5mm²/22-20AWG		0.34~0.5mm²/22-20AWG		
	Protection Level		Connection Status IP68										Connection Status IP68										
	Terminal Type		Soldering/Screwing		Soldering/Screwing		Soldering		Soldering		Soldering		Soldering		Soldering		Soldering		Soldering		Soldering		
	Illustration	Material	Part No																				
Plug	Metal + Plastic	Male	LP-20-C02PE-01-001A	LP-20-C03PE-01-001A	LP-20-C04PE-01-001A	LP-20-C05PE-01-001A	LP-20-C05PE-01-051A		LP-20-C07PE-01-001A	LP-20-C08PE-01-051	LP-20-C09PE-01-001A	LP-20-C12PE-01-001A	LP-20-C14PE-01-001A										
		Female	LP-20-J02PE-01-002A	LP-20-J03PE-01-003A	LP-20-J04PE-01-002A	LP-20-J05PE-01-002A	LP-20-J05PE-01-0XXA		LP-20-J07PE-01-002A	LP-20-J08PE-01-051A	LP-20-J09PE-01-002A	LP-20-J12PE-01-002A	LP-20-J14PE-01-001A										
Plug	Metal	Male	LP-20-C02PE-03-001A	LP-20-C03PE-03-001A	LP-20-C04PE-03-001A	LP-20-C05PE-03-001A	LP-20-C05PE-03-0XXA		LP-20-C07PE-03-001A	LP-20-C08PE-03-001A	LP-20-C09PE-03-001A	LP-20-C12PE-03-001A	LP-20-C14PE-03-001A										
		Female	LP-20-J02PE-03-001A	LP-20-J03PE-03-001A	LP-20-J04PE-03-001A	LP-20-J05PE-03-001A	LP-20-J05PE-03-0XXA		LP-20-J07PE-03-001A	LP-20-J08PE-03-001A	LP-20-J09PE-03-001A	LP-20-J12PE-03-001A	LP-20-J14PE-03-001A										
Single hole straight receptacle		Male	LP-20-C02SX-03-101A	LP-20-C03SX-03-101A	LP-20-C04SX-03-101A	LP-20-C05SX-03-101A	LP-20-C05SX-03-151A		LP-20-C07SX-03-101A	LP-20-C08SX-03-151	LP-20-C09SX-03-101A	LP-20-C12SX-03-101A	LP-20-C14SX-03-101A										
		Female	LP-20-J02SX-03-101A	LP-20-J03SX-03-101A	LP-20-J04SX-03-101A	LP-20-J05SX-03-101A	LP-20-J05SX-03-151A		LP-20-J07SX-03-101A	LP-20-J08SX-03-151	LP-20-J09SX-03-101A	LP-20-J12SX-03-101A	LP-20-J14SX-03-101A										
Two-hole flange receptacle		Male	LP-20-C02SX-03-201A	LP-20-C03SX-03-201A	LP-20-C04SX-03-201A	LP-20-C05SX-03-201A	LP-20-C05SX-03-2XXA		LP-20-C07SX-03-201A	LP-20-C08SX-03-251	LP-20-C09SX-03-201A	LP-20-C12SX-03-201A	LP-20-C14SX-03-201A										
		Female	LP-20-J02SX-03-201A	LP-20-J03SX-03-201A	LP-20-J04SX-03-201A	LP-20-J05SX-03-201A	LP-20-J05SX-03-2XXA		LP-20-J07SX-03-201A	LP-20-J08SX-03-251	LP-20-J09SX-03-201A	LP-20-J12SX-03-201A	LP-20-J14SX-03-201A										
Four-hole flange receptacle		Male	LP-20-C02SX-03-401A	LP-20-C03SX-03-401A	LP-20-C04SX-03-401A	LP-20-C05SX-03-401A	LP-20-C05SX-03-4XXA		LP-20-C07SX-03-401A	LP-20-C08SX-03-451A	LP-20-C09SX-03-401A	LP-20-C12SX-03-401A	LP-20-C14SX-03-401A										
		Female	LP-20-J02SX-03-401A	LP-20-J03SX-03-401A	LP-20-J04SX-03-401A	LP-20-J05SX-03-401A	LP-20-J05SX-03-451A		LP-20-J07SX-03-401A	LP-20-J08SX-03-451	LP-20-J09SX-03-401A	LP-20-J12SX-03-401A	LP-20-J14SX-03-401A										

LP-20 Datasheet

LP-20

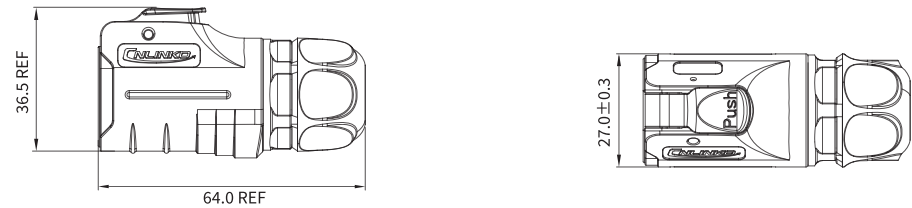
LP20 Power/Signal	Product Series		LP-20					LP-20				
	Pin Number		2PIN	3PIN	4PIN	5PIN	5PIN	7PIN	8PIN	9PIN	12PIN	14PIN
	Contact Layout		 Male Female	 Male Female	 Male Female	 Male Female	 Male Female	 Male Female	 Male Female	 Male Female	 Male Female	 Male Female
	Current Rating(A)		20	20	20	10	10/5	10	20/5	5	5	5
	Voltage Rating(V)		500	500	500	500	300	500	250	250	250	250
	Cable O.D(mm)		φ5.0~φ6.5	φ6.5~φ8.5	φ8.5~φ10.0	φ10.0~φ12.0	φ5.0~φ6.5		φ6.5~φ8.5	φ8.5~φ10.0	φ10.0~φ12.0	
	Wire Gauge		2.5-4.0mm ² /14-12AWG	2.5-4.0mm ² /14-12AWG	2.5-4.0mm ² /14-12AWG	1.0-1.5mm ² / 18-16AWG	1.0-1.5mm ² / 18-16AWG 0.34-0.5mm ² /22-20AWG	1.0-1.5mm ² / 18-16AWG	2.5-4.0mm ² /14-12AWG 0.34-0.5mm ² /22-20AWG	0.34-0.5mm ² /22-20AWG	0.34-0.5mm ² /22-20AWG	0.34-0.5mm ² /22-20AWG
	Protection Level		Connection Status IP68					Connection Status IP68				
	Terminal Type		Soldering/Screwing	Soldering/Screwing	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering
Illustration	Material	Part No										
Plug	Plastic	Male	LP-20-C02PE-02-001A	LP-20-C03PE-02-001A	LP-20-C04PE-02-001A	LP-20-C05PE-02-001A	LP-20-C05PE-02-0XXA	LP-20-C07PE-02-001A	LP-20-C08PE-02-051	LP-20-C09PE-02-001A	LP-20-C12PE-02-001A	LP-20-C14PE-02-001A
		Female	LP-20-J02PE-02-001A	LP-20-J03PE-02-001A	LP-20-J04PE-02-001A	LP-20-J05PE-02-001A	LP-20-J05PE-02-0XXA	LP-20-J07PE-02-001A	LP-20-J08PE-02-051	LP-20-J09PE-02-001A	LP-20-J12PE-02-001A	LP-20-J14PE-02-001A
In-line receptacle		Male	LP-20-C02PP-02-001A	LP-20-C03PP-02-001A	LP-20-C04PP-02-001A	LP-20-C05PP-02-001A	LP-20-C05PE-02-0XXA	LP-20-C07PP-02-001A	LP-20-C08PP-02-001A	LP-20-C09PP-02-001A	LP-20-C12PP-02-001A	LP-20-C14PP-02-001A
		Female	LP-20-J02PP-02-001A	LP-20-J03PP-02-001A	LP-20-J04PP-02-001A	LP-20-J05PP-02-001A	LP-20-J05PE-02-0XXA	LP-20-J07PP-02-001A	LP-20-J08PP-02-001A	LP-20-J09PP-02-001A	LP-20-J12PP-02-001A	LP-20-J14PP-02-001A
Single hole straight receptacle		Male	LP-20-C02SX-02-101A	LP-20-C03SX-02-101A	LP-20-C04SX-02-101A	LP-20-C05SX-02-101A	LP-20-C05SX-02-1XXA	LP-20-C07SX-02-101A	LP-20-C08SX-02-151A	LP-20-C09SX-02-101A	LP-20-C12SX-02-101A	LP-20-J12SX-02-101A
		Female	LP-20-J02SX-02-101A	LP-20-J03SX-02-101A	LP-20-J04SX-02-101A	LP-20-J05SX-02-101A	LP-20-J05SX-02-1XXA	LP-20-J07SX-02-101A	LP-20-J08SX-02-151	LP-20-J09SX-02-101A	LP-20-J12SX-02-101A	LP-20-J14SX-02-101A

LP-20 Dimension Drawing (unit: mm)

Metal Plug



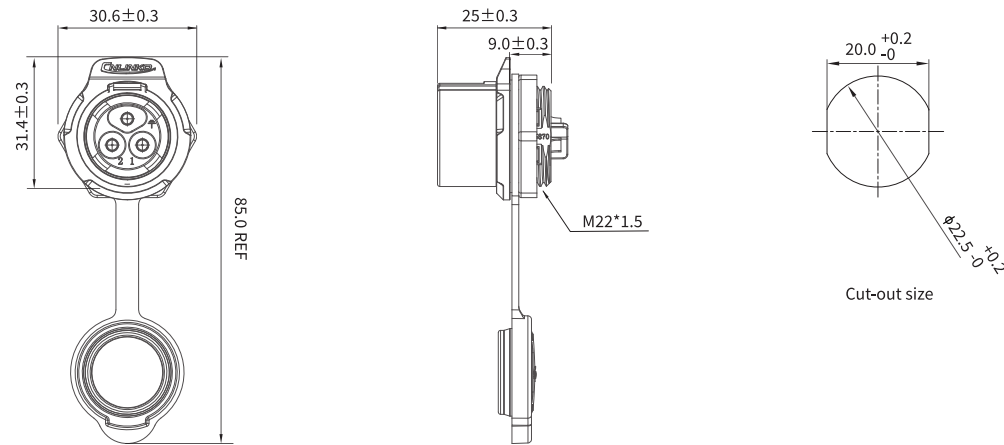
Plastic Plug



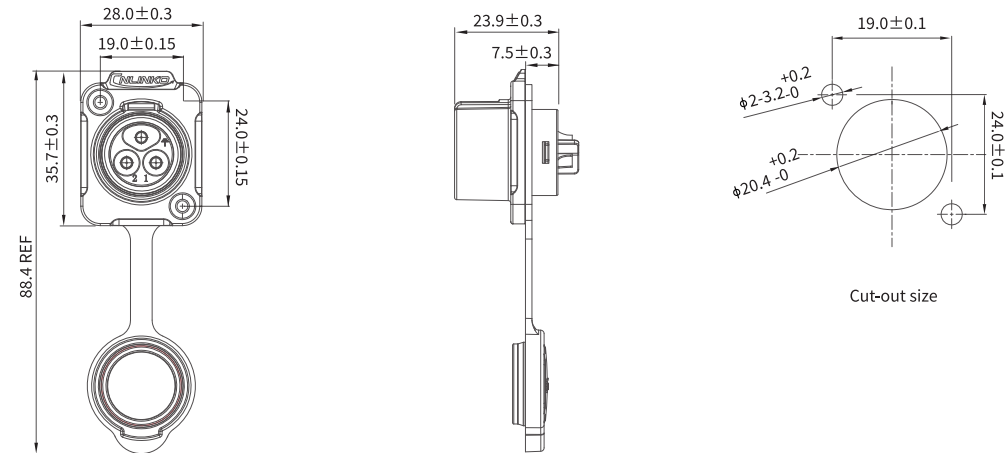
In-line receptacle



Single hole straight receptacle



Two-hole flange receptacle



Four-hole flange receptacle

