YM SERIES

YM Circular Plastic
Waterproof Connector

YM waterproof connector application type

Cnlinko's The newest Product YM (M20, M24) series waterproof connectors use PBT engineering performance injection molding material as the component raw material, and the all-plastic shell design, Make the product more anti-corrosion and safer. The whole adopts a unique spring-type rotary locking connection. Sophisticated internal construction, rugged housing construction,It provides a safe and stable connection and transmission performance to ensure the stability of the electrical performance of the device during use.

- Series product information:

Series code:	YM- 20 、YM- 24
Hole size:	Please refer to the external dimension drawing for detailed hole size.
Application types:	·Multi-PIN (2,3,4,5,6,7,9,10,12,14,19,24pin and customized 3+2,2+6,2+1+5 pins etc) ·Signal Type (RJ45, Optical Fiber) ·Data Type (USB2.0, USB3.0, HDMI)
Material type:	Plastic type

- Introduction:

The Product include power, multi-core, hybrid, USB2.0, USB3.0, HDMI, RJ45, optical fiber eight categories. Adopt military standard three-point screw lock. Plastic dust cover, unique rotary outer ring locking method, can realize one-handed plugging operation.

- Main body material, process and surface treatment:

Shell:	Material: Engineering Plastic	Production process: Injection molding

- 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 YM series area:

Scan the QR code below to check the YM 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 YM series

Installation Video of YM Series

Applications

YM-20 series products are used in a water wading equipment

Features Overview

High corrosion resistance

The shell is made of high-performance outdoor engineering plastic material, which can adapt to various,highly corrosive application environments.

Weight

All-plastic structure design, light weight and sturdy.

Secure connection and secure locking

With bayonet connection and three-point locking structure design, the holding force is large and the connection is super stable.

High protection level

In the connected state, it has the highest protection level of IP68, which can adapt to all kinds of wading or wet environments.

Type and Style

High corrosion resistance

YM series are all plastic models and are made of high-performance engineering plastic materials, which are the first choice in highly corrosive application scenarios.

Flexible installation

YM series has three installation methods: single-hole panel receptacle, four-hole flange receptacle, and wire-to-wire Floating connector.

Multiple wiring modes

YM series provides product types with locking screw and soldering connection. Screw locking is quick and convenient, and soldering is more reliable.

Color customizable

At present, the main colors of YM24 series shells include red, yellow, blue and green. We can also customize other colors to meet the individual 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

YM-20 Series Information Overview P55

Product application type:	Power: 2/3/4 Pins	
	Signal: 5/7/9/12/14 pins	
	Voltage Rating: 500V (2~5、7pins) , 300V (3pins) , 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: P55	Dimension Drawing: P57

YM-24 Series Information Overview P59

Product application type:	Power: 2/3/4 pins	
	Signal: 10/12/19/24 pins, RJ45, Optical fiber	Data: USB, HDMI
	Voltage Rating: 500V (2~4、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	
	Signal type：Φ5.0~7.0mm (RJ45) , Φ5.0~7.0mm (Optical fiber)	
	Data type:Φ5.0~7.0mm (USB、HDMI)	
Details page:	Product Parameter Map: P59	Dimension Drawing: P61

Main feature：

- Multi-style inner core design, multi-PIN, signal RJ45, optical fiber, data USB, HDMI, etc.
- Which has good fire resistance, compression resistance, deformation resistance;
- Gold-plated contacts, high corrosion resistance and electrical conductivity;
- Unique docking design, stable extension of infinite cable length;
- The signal transmission is fast and stable, and the data transmission can reach 10Gbps.

YM-24 Datasheet

YM-24

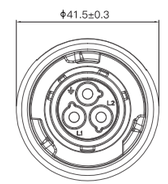
YM24 Power/Signal													
	Product Series	YM-24				YM-24							
	Pin Number	2PIN		3PIN		3PIN	4PIN	10PIN	12PIN	19PIN	24PIN	RJ45	
	Contact Layout	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female	Male Female		
	Current Rating(A)	25	35	25	35	45	25	10	10	5	5	1.5	
	Voltage Rating(V)	500	300	500	300	230	500	500	500	250	250	125	
	Cable O.D(mm)	ϕ5.0～ϕ7.0	ϕ7.0～ϕ10.5	ϕ10.5～ϕ14.0				ϕ5.0～ϕ7.0	ϕ7.0～ϕ10.5	ϕ10.5～ϕ14.0			
	Wire Gauge	2.5~4.0mm²/14~12AWG	6.0~8.0mm²/10~8AWG	2.5~4.0mm²/14~12AWG	6.0~8.0mm²/10~8AWG	8(power cord)~10(single cord) mm²8~6AWG	2.5~4.0mm²/14~12AWG	1.0~1.5mm²/ 18~16AWG	1.0~1.5mm²/ 18~16AWG	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	Soldering/Screwing	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	Soldering	CAT.3~CAT.6	
Illustration	Material	Part No				Part No							
Plug	Plastic	Male	YM-24-C02PE-02-001	YM-24-C02PE-02-035	YM-24-C03PE-02-001	YM-24-C03PE-02-035	YM-24-C03PE-02-050	YM-24-C04PE-02-001	YM-24-C10PE-02-001A	YM-24-C12PE-02-001A	YM-24-C19PE-02-001A	YM-24-C03PE-02-050	YM-24-C/RJ45/ 015/PE-42-001
		Female	YM-24-J02PE-02-001	YM-24-J02PE-02-035	YM-24-J03PE-02-001	YM-24-J03PE-02-035	YM-24-J03PE-02-050	YM-24-J04PE-02-001	YM-24-J10PE-02-001A	YM-24-J12PE-02-001A	YM-24-J19PE-02-001A	YM-24-J03PE-02-050	—
In-line receptacle		Male	YM-24-C02PP-02-001	YM-24-C02PP-02-035	YM-24-C03PP-02-001	YM-24-C03PP-02-035	YM-24-C03PP-02-050	YM-24-C04PP-02-001	YM-24-C10PP-02-001A	YM-24-C12PP-02-001A	YM-24-C19PP-02-001A	YM-24-C03PP-02-050	—
		Female	YM-24-J02PP-02-001	YM-24-J02PP-02-035	YM-24-J03PP-02-001	YM-24-J03PP-02-035	YM-24-J03PP-02-050	YM-24-J04PP-02-001	YM-24-J10PP-02-001A	YM-24-J12PP-02-001A	YM-24-J19PP-02-001A	YM-24-J03PP-02-050	—
Single hole straight receptacle		Male	YM-24-C02SX-02-101	YM-24-C02SX-02-135	YM-24-C03SX-02-101	YM-24-C03SX-02-135	YM-24-C03SX-02-150	YM-24-C04SX-02-101	YM-24-C10SX-02-101A	YM-24-C12SX-02-101A	YM-24-C19SX-02-101A	YM-24-C03SX-02-150	—
		Female	YM-24-J02SX-02-101	YM-24-J02SX-02-135	YM-24-J03SX-02-101	YM-24-J03SX-02-135	YM-24-J03SX-02-150	YM-24-J04SX-02-101	YM-24-J10SX-02-101A	YM-24-J12SX-02-101A	YM-24-J19SX-02-101A	YM-24-J03SX-02-150	YM-24-J/RJ45/ 213/SX-42-102
Four-hole flange receptacle		Male	YM-24-C02SX-02-401	YM-24-C02SX-02-435	YM-24-C03SX-02-401	YM-24-C03SX-02-435	YM-24-C03SX-02-450	YM-24-C04SX-02-401	YM-24-C10SX-02-401A	YM-24-C12SX-02-401A	YM-24-C19SX-02-401A	YM-24-C03SX-02-450	—
		Female	YM-24-J02SX-02-401	YM-24-J02SX-02-435	YM-24-J03SX-02-401	YM-24-J03SX-02-435	YM-24-J03SX-02-450	YM-24-J04SX-02-401	YM-24-J10SX-02-401A	YM-24-J12SX-02-401A	YM-24-J19SX-02-401A	YM-24-J03SX-02-450	YM-24-J/RJ45/ 213/SX-42-402

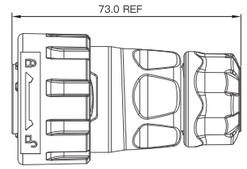
YM-24 Dimension Drawing (unit: mm)

YM24 Power/Signal	Product Series	YM-24				
	Pin Number	USB2.0	USB3.0	HDMI2.0	HDMI2.1	Optical fiber
	Contact Layout					
	Current Rating(A)	1.5	1.8	0.5	0.5	—
	Voltage Rating(V)	5	5	5	5	—
	Cable O.D(mm)		ϕ5.0～ϕ7.0	ϕ7.0～ϕ10.5	ϕ10.5～ϕ14.0	
	Wire Gauge	—	—	—	—	—
	Protection Level	Connection Status IP68				
	Terminal Type	480 Mbps	5.0 Gbps	18 Gbps	48 Gbps	plug-in loss≤0.35dB return loss≥50dB

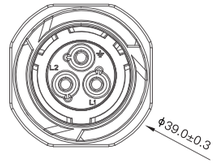
Illustration	Material	Part No				
Plug	Plastic	Male	YM-24-USB2-MP-MP-1M-001	YM24-USB3-MP-MP-1M-001	YM24-HDMI-MP-MP-1M-001	YM24-HDMI-MP-MP-1M-003	YM-24-C/LC/016/PE-42-002 YM-24-C/LC/016/PE-42-001
		Female	—	—	—	—	—
In-line receptacle		Male	—	—	—	—	—
		Female	—	—	—	—	—
Single hole straight receptacle		Male	—	—	—	—	—
		Female	YM-24-J/USB2/213/SX-42-101A	YM-24-J/USB3/213/SX-42-101A	YM-24-J/HDMI2/213/SX-42-101	YM-24-J/HDMI21/213/SX-42-101	YM-24-J/LC/213/SX-42-102 YM-24-J/LC/213/SX-42-101
Four-hole flange receptacle		Male	—	—	—	—	—
		Female	YM-24-J/USB2/213/SX-42-401A	YM-24-J/USB3/213/SX-42-401A	YM-24-J/HDMI2/213/SX-42-401	YM-24-J/HDMI21/213/SX-42-401	YM-24-J/LC/213/SX-42-402 YM-24-J/LC/213/SX-42-401

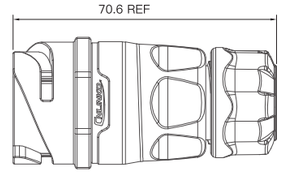
Plug



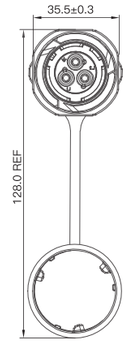


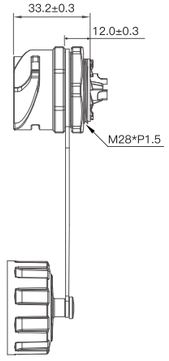
In-line receptacle

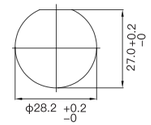




Single hole straight receptacle

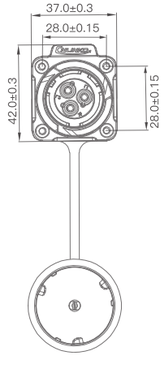


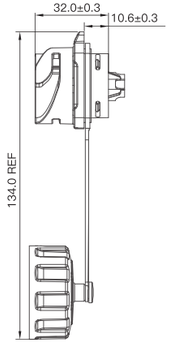


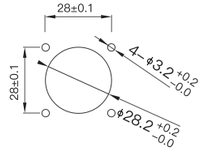


Cut-out size

Four-hole flange receptacle







Cut-out size