

# CIRCULAR CONNECTOR





Shenzhen Anknor Technology Co., Ltd. (ANKNOR) is a wholly-owned subsidiary of MOFLON, a global manufacturer of high-end precision rotary connectors. ANKNOR focuses on the research, development, production, and sales of high-precision connector products, committed to providing customized and highly reliable connection solutions for global customers.

MOFLON, with its factory located in Shajing, Shenzhen, employs over 500 people and has an annual sales revenue exceeding 300 million RMB. With a 20,000 square meter high-tech factory, MOFLON is dedicated to high-end manufacturing, driving industry development with high-quality products. Its products are widely exported to developed countries in Europe, America, and Japan, and have entered the European and American aerospace and military industries. MOFLON has established long-term and friendly cooperative relationships with many internationally renowned brands. Over 60% of its products are customized, widely used in robotics, CCTV camera systems, packaging machinery, medical instruments, and automation systems. The company has also obtained ISO 9001, UL, CE, and other relevant certifications.

Leveraging the strong resources of its parent company, ANKNOR can undertake highly demanding and complex special customization needs, continuing the parent company's advantage of over 60% customized product sales. Its products include standard and customized high-precision conductive slip rings and standard and customized industrial connectors, possessing characteristics such as high precision, high stability, and strong adaptability, with performance comparable to international advanced levels.

ANKNOR's products are applied in various high-end fields, including aerospace, marine, military, robotics, automotive, medical instruments, intelligent manufacturing, automation systems, weaponry, railways, oil exploration, wind power generation, and agricultural informatization.

In the future, ANKNOR will use its parent company's technological expertise as a solid foundation, with innovation as its core driving force, to build a benchmark brand in its niche market, creating more valuable connection solutions for global customers and jointly exploring new opportunities in the industry

# Office environment



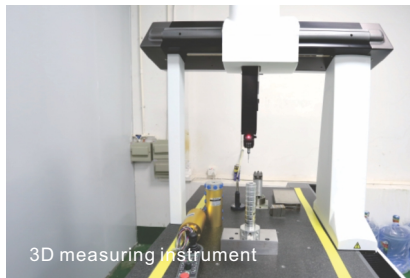
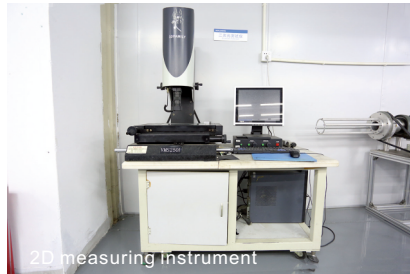
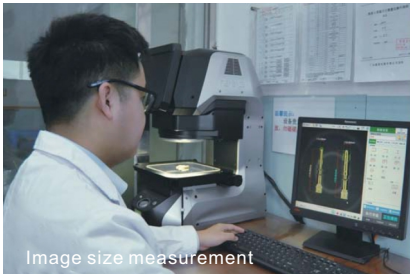
# PRECISE

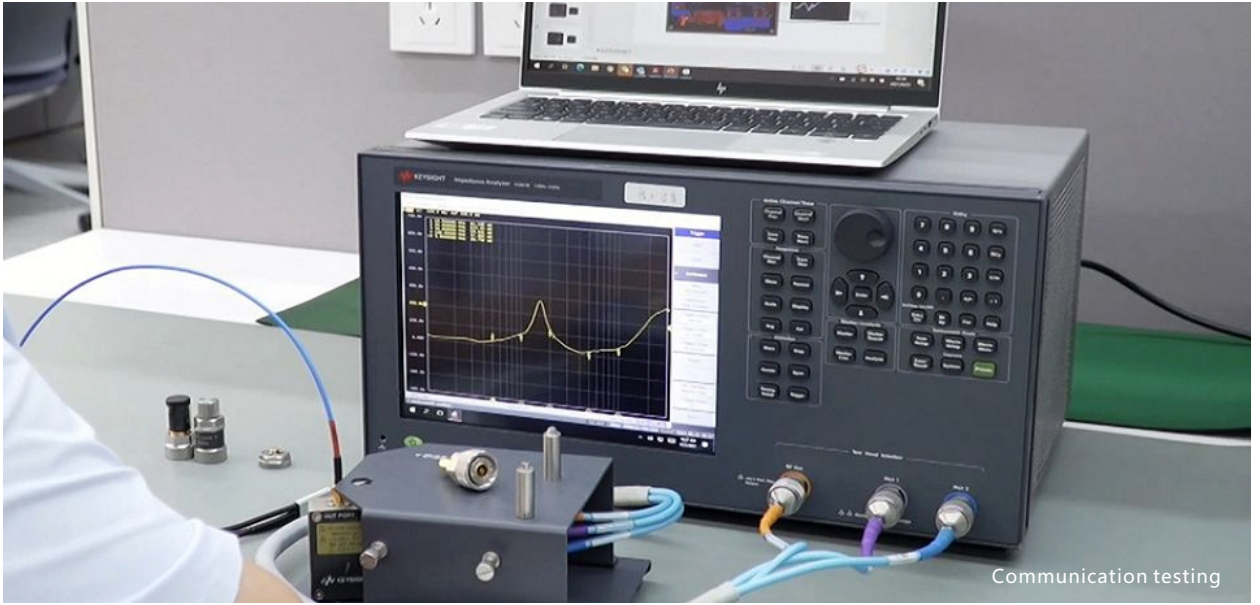
Precise Production Control, High Quality and Efficiency



# QUALITY

Rigorous testing ensures product quality





# HONOR

Honors and Qualifications



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# ALP SERIES

## Quick waterproof connector

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### Product Introduction

ALP series multi application waterproof connectors adopt independent patented snap on connection method, which can achieve one click plugging and unplugging and one hand operation, suitable for various fast and efficient operation scenarios. The product adopts a multiple patented waterproof structure design, with high waterproof performance, which can prevent external water and liquid from entering; The overall appearance design of the ALP series is simple and atmospheric, in line with ergonomic design principles, and can meet differentiated demands such as anti-interference, high strength, and high corrosion resistance in different scenarios.

The product types include power supply, multi-core, hybrid USB2.0, USB3.0, HDMI, RJ45, Fiber optic, Type-C nine major categories. Plastic shell, light weight, good toughness, metal shell, high impact strength, adopts snap lock, can be operated with one hand, easy to operate, safe and reliable.

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The pictures are for reference only

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## Series product information

Series code	ALP-12、ALP-16、ALP-20、ALP-24、ALP-28
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multiple PIN types (2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 14, 19, 24 cores and customized 3+2, 2+6, 2+7, 2+1+5 cores, etc.) Signal type (RJ45, fiber optic) Data Class (USB 2.0, USB 3.0, HDMI 2.0, HDMI 2.1, Type-c)
Material type	Plastic type, plastic+metal type, metal type

## Main material, process and surface treatment

shell	Material	Production process	Surface treatment
	engineering plastic/metal	Die-casting and injection molding	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold silver plating
LC optical fiber contact	Male/Female End (High Modulus Glass Fiber)		
Insulator	Engineering plastic	Injection molding	

## Packaging and storage

The product is packaged in a self-sealing bag, with small packaging boxes inside the larger packing box. Labels are attached to the small packaging boxes, indicating the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.



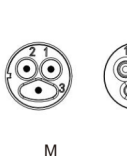

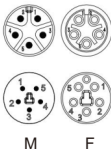
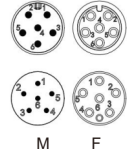
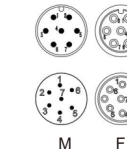
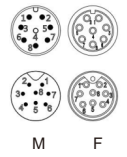
# ALP-12 Model

## Quick waterproof connector

### ALP-12 Overview of series information

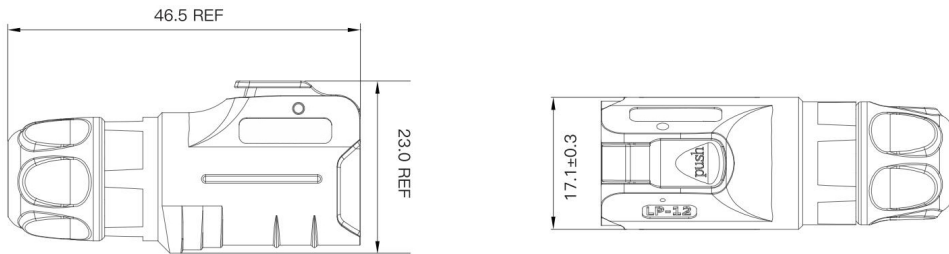
Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4-Cores Signal: 5/6/7/8-PIN	125V (2~6 PIN) 100V (7~8 PIN)	5A (2~6 PIN) 3A (7~8 PIN)	Applicable wire diameters Φ3.5~4.5mm, Φ4.5~5.5mm, Φ5.5~6.5mm

### Parameter Information

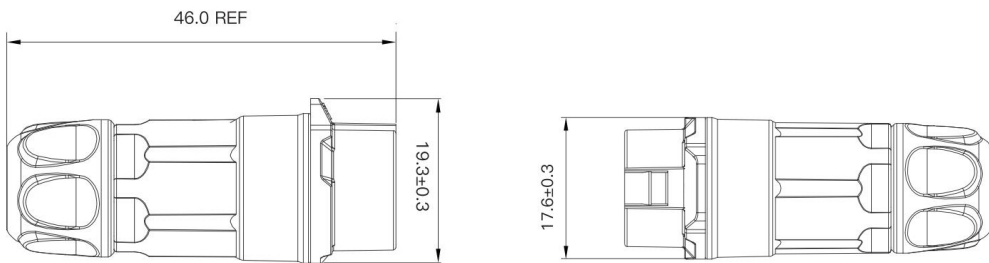
	Product Series	ALP-12			
	PIN	2 PIN	3 PIN		4 PIN
ALP12 Power/Signal	Terminal Arrangement				
	Rated current(A)	5	5	5	5
	Rated voltage(V)	125	125	125	125
	Applicable wire diameters (mm)	Φ3.5~4.5mm, Φ4.5~5.5mm, Φ5.5~6.5mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG
	Protection level	Connection status IP68			
	Wiring type	Welding	Welding	Thread sewing	Welding
	PIN	5 PIN	6 PIN	7 PIN	8 PIN
	Terminal Arrangement				
	Rated current(A)	5	5	3	3
	Rated voltage(V)	125	125	100	100
	Applicable wire diameters (mm)	Φ3.5~4.5mm, Φ4.5~5.5mm, Φ5.5~6.5mm (Optional)			
Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AVG	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.25~0.34mm <sup>2</sup> / 24~22AWG	0.25~0.34mm <sup>2</sup> / 24~22AWG	
Protection level	Connection status IP68				
Wiring type	Welding	Welding	Welding	Welding	

## Product appearance and dimension drawing

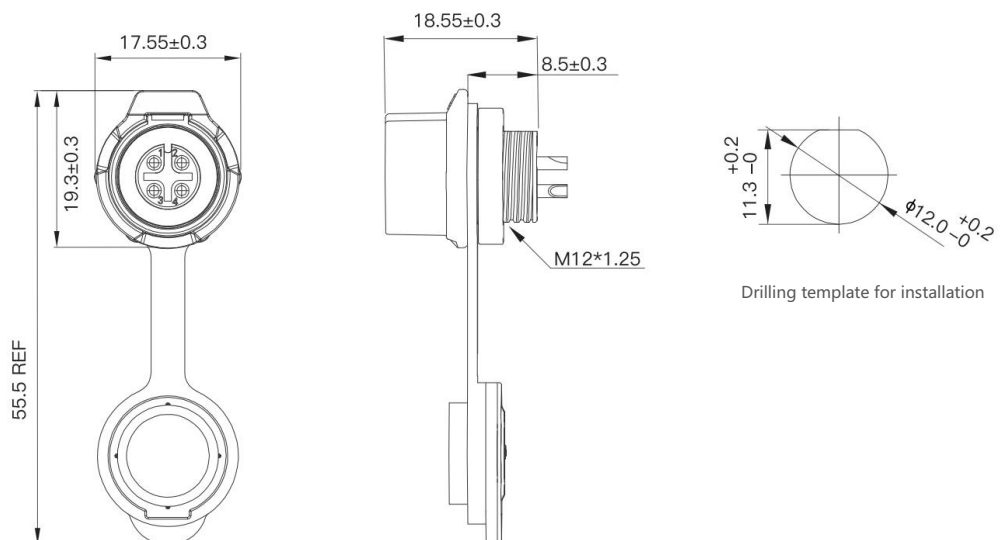
### Plastic plug



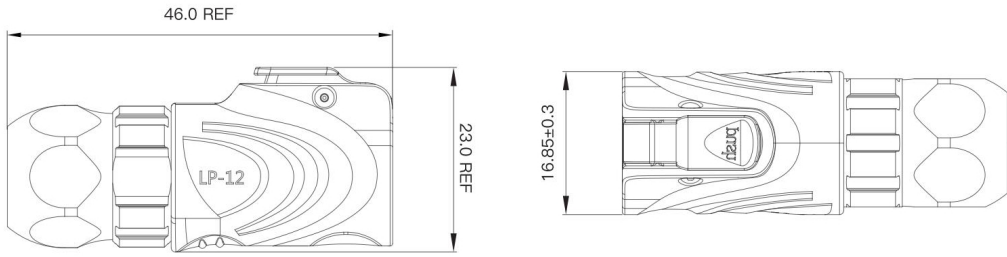
### Socket



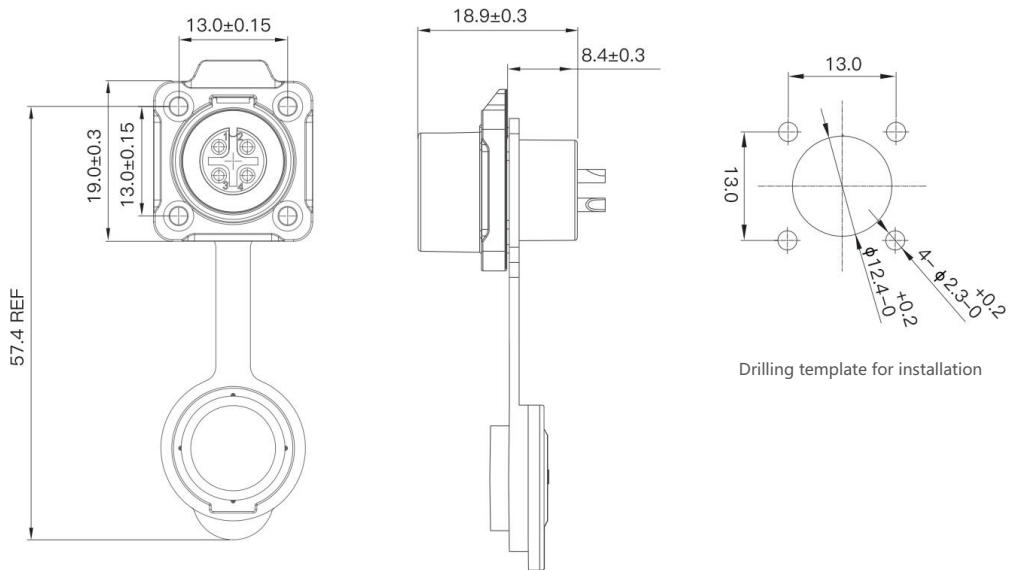
### Single-hole straight socket



### Metal plug



### Four-hole flange socket



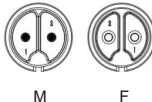
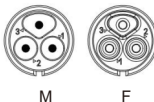
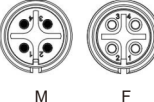
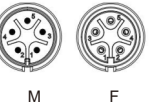
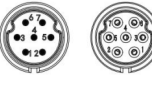
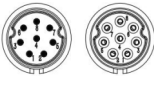
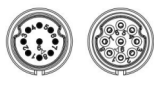

# ALP-16 Model


## Quick waterproof connector

### ALP-16 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4-Cores Data: Type-C Signal: 5/6/7/8/9-PIN、RJ45、 optical fiber	400V (2~4 PIN) 250V (5、7~9 PIN)	10A (2~4 PIN) 5A (5、7~9 PIN)	Applicable wire diameters Φ3.0~5.0mm, Φ5.0~7.0mm, Φ7.0~9.0mm

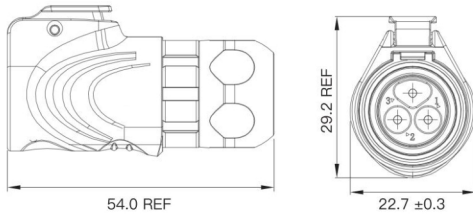
### Parameter Information

	Product Series	ALP-16			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
ALP16 Power/Signal	Terminal Arrangement				
	Rated current(A)	10	10	10	5
	Rated voltage(V)	400	400	400	250
	Applicable wire diameters (mm)	Φ3.0~5.0mm, Φ5.0~7.0mm, Φ7.0~9.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> / 18~16AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	7 PIN	8 PIN	9 PIN	RJ45
	Terminal Arrangement				
	Rated current(A)	5	5	5	1.5
	Rated voltage(V)	250	250	250	125
	Applicable wire diameters (mm)	Φ3.0~5.0mm, Φ5.0~7.0mm, Φ7.0~9.0mm (Optional)			
Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AVG	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.25~0.34mm <sup>2</sup> / 24~22AWG	-	
Protection level	Connection status IP68			Connection status IP67	
Wiring type	Welding	Welding	Welding	CAT.3~CAT.6	

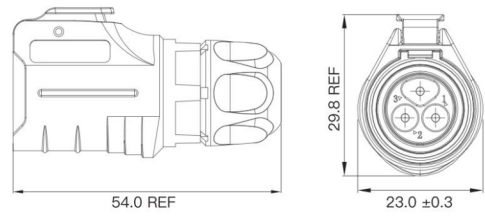
ALP16 Power/Signal	Product Series	ALP-16			
	PIN	Type-C	-	-	-
	Terminal Arrangement		-	-	-
	Rated current(A)	3	-	-	-
	Rated voltage(V)	5	-	-	-
	Applicable wire diameters (mm)	Φ3.0~5.0mm, Φ5.0~7.0mm, Φ7.0~9.0mm (Optional)			
	Wiring specification	-	-	-	-
	Protection level	Connection status IP68	-	-	-
	Wiring type	GEN1(5Gbps) GEN2(10Gbps)	-	-	-

## Product appearance and dimension drawing

Metal plug



Plastic plug



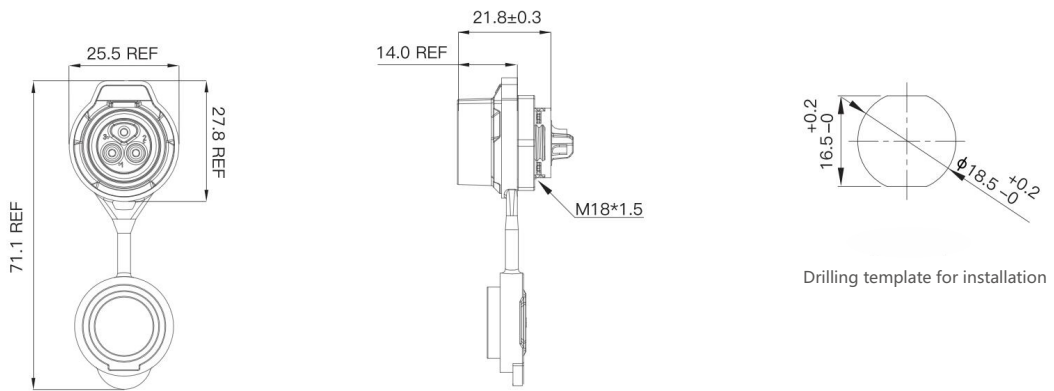
Socket



RJ45 docking socket

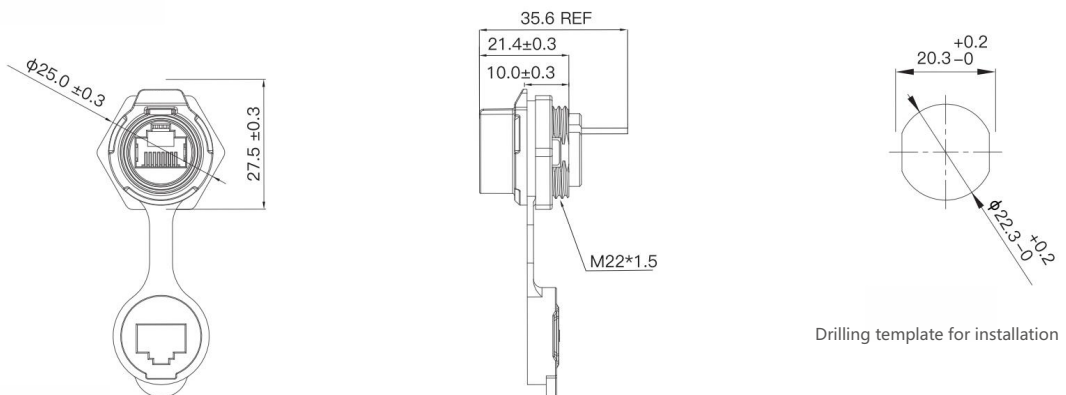


### Single-hole straight socket



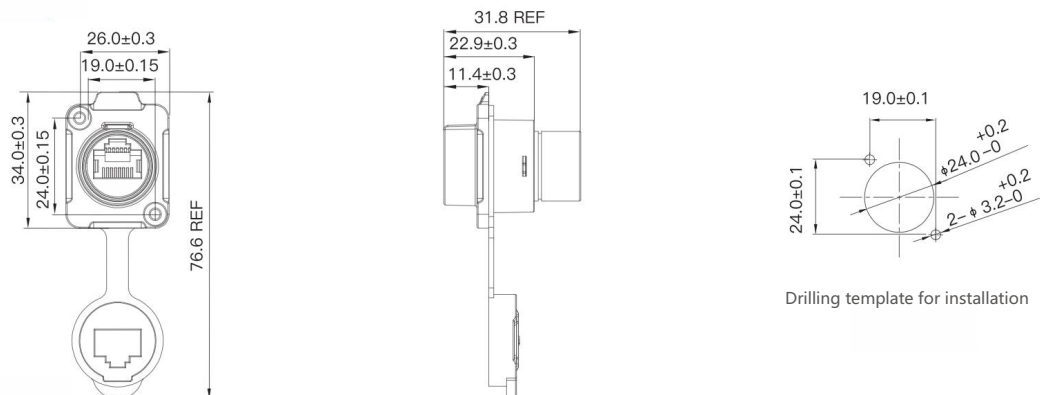
Drilling template for installation

### RJ45 Single-hole straight socket



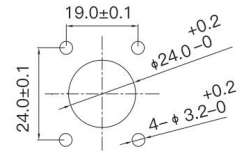
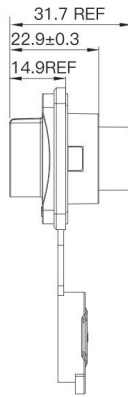
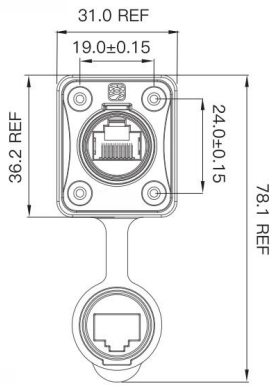
Drilling template for installation

### RJ45 two-hole flange socket



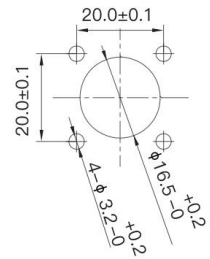
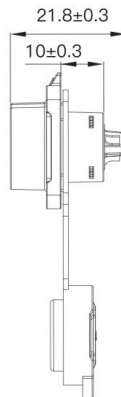
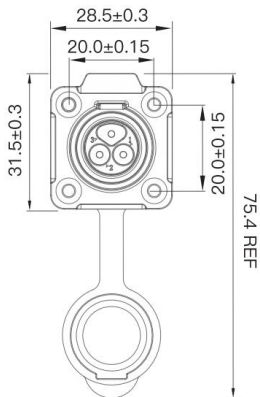
Drilling template for installation

### RJ45 four-hole flange socket



Drilling template for installation

### Four-hole flange socket



Drilling template for installation

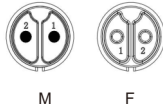
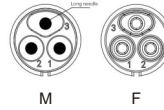
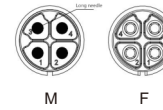
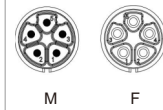
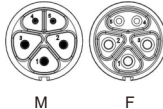
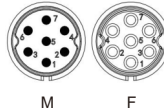
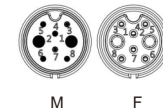
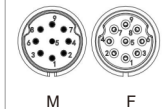
# ALP-20 Model

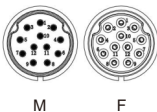
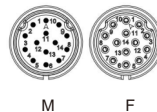
## Quick waterproof connector

### ALP-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4-Cores Signal: 5/7/9 PIN	500V (2~5, 7 PIN) 300V (5 PIN) 250V (8 PIN hybrid, 9-core, 12 PIN, 14 PIN)	20A (2~4 PIN) 10A (5, 7 PIN) 20A+5A(8 PIN hybrid) 10A+5A(5 PIN hybrid)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm,

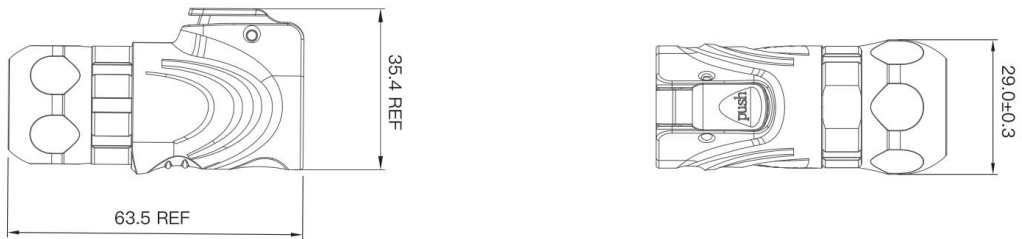
### Parameter Information

	Product Series	ALP-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
ALP20 Power/Signal	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	20	20	20	10
	Rated voltage(V)	500	500	500	500
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	500	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status IP68			
Wiring type	Welding	Welding	Welding	Welding	

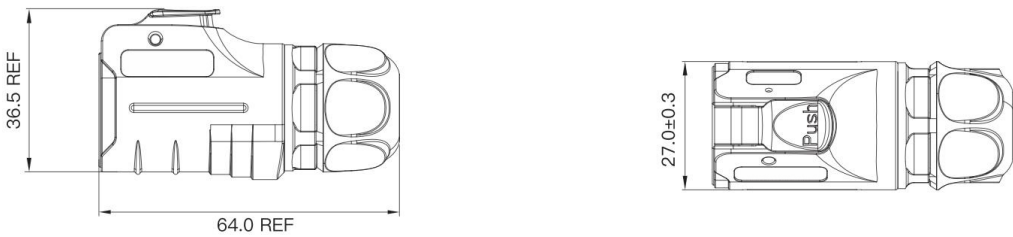
ALP20 Power/Signal	Product Series	ALP-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement	 M F	 M F	-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG	-	-
	Protection level	Connection status IP68		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

### Metal plug



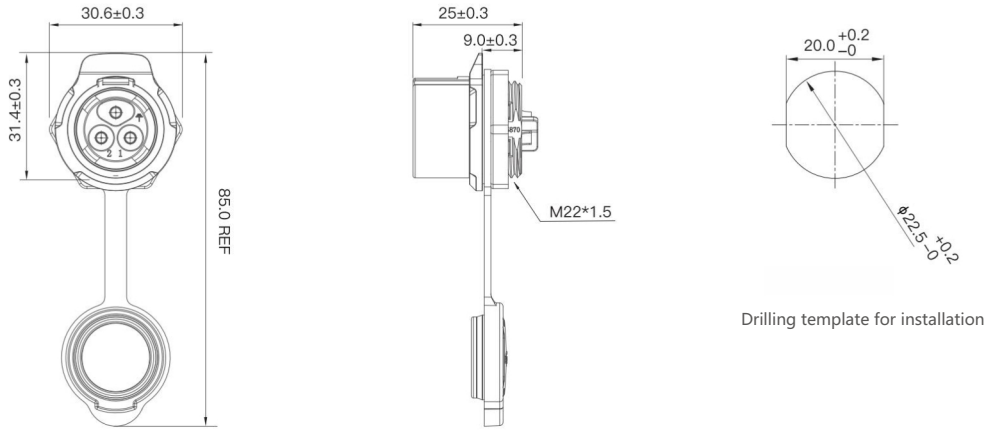
### Plastic plug



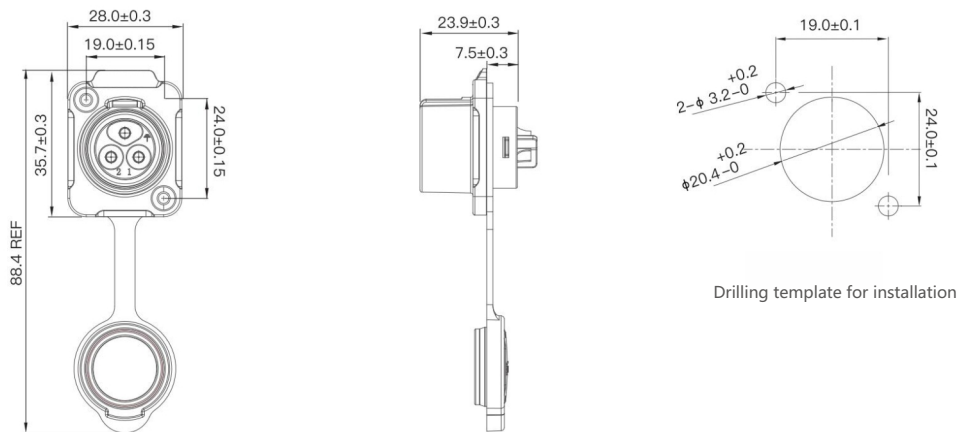
### Socket



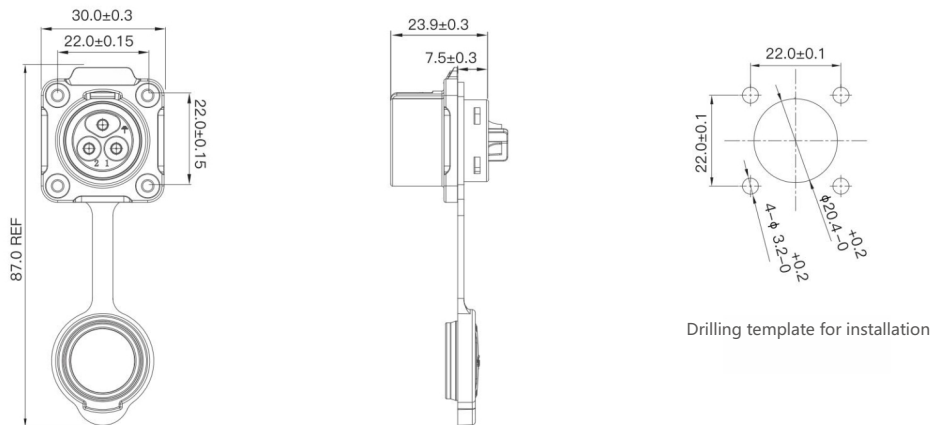
Single-hole straight socket



Two-hole flange socket



Four-hole flange socket



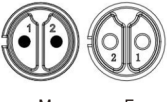
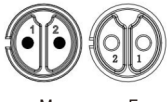
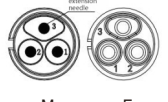
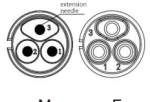
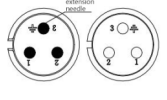
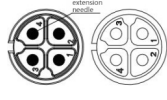
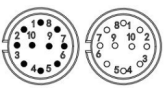
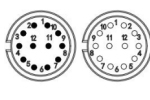
# ALP-24 Model

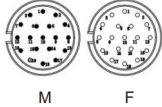
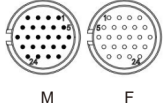






## Quick waterproof connector

### ALP-24 Overview of series information

Product application type	Rated voltage	Rated current	Suitable wire diameter
Power supply: 2/3/4-Cores Signal: 10/12/19/24 PIN,RJ45, optical fiber Data:USB,HDMI	500V (2~4 PIN) 400V (10、12 PIN) 300V (2、3 PIN ) 250V(19、24 PIN) 230V(3 PIN)	45A (3 PIN) 35A (2、3 PIN) 25A(2~4 PIN) 10A(10、12PIN) 5A(19、24PIN)	Multi-PIN type:Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm Data class:Φ5.0~7.0mm, (USB、HDMI) Signal category: Φ5.0~7.0mm, (Rj45), Φ4.5~6.0mm, (Optical fiber)

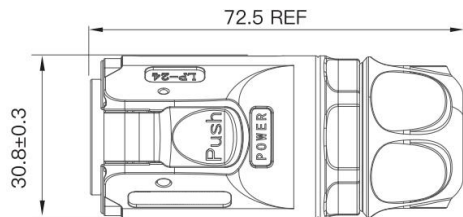
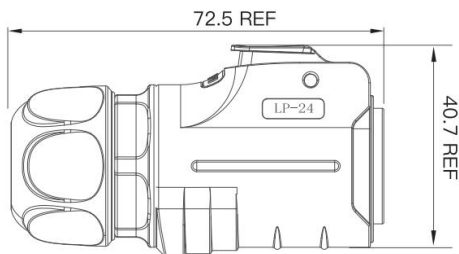
### Parameter Information

	Product Series	ALP-24			
	PIN	2 PIN		3 PIN	
ALP24 Power/Signal	Terminal Arrangement				
	Rated current(A)	25	35	25	35
	Rated voltage(V)	500	500	500	500
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing	Welding	Welding / Thread sewing	Welding
	PIN	3 PIN	4 PIN	10 PIN	12 PIN
	Terminal Arrangement				
	Rated current(A)	45	25	10	10
	Rated voltage(V)	230	500	400	400
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
Wiring specification	8 (power cord) ~ 10 (single-core wire) mm <sup>2</sup> 8~6AWG	2.5~4.0mm <sup>2</sup> /14~12AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	
Protection level	Connection status IP68				
Wiring type	Welding	Welding	Welding	Welding	

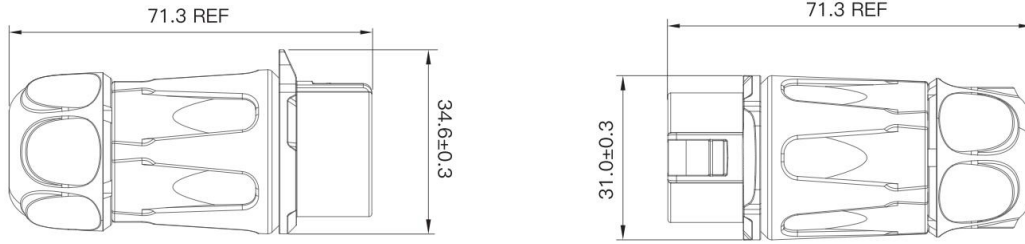
ALP24 Power/Signal	Product Series	ALP-24			
	PIN	19 PIN	24 PIN	RJ45	USB2.0
	Terminal Arrangement	 M F	 M F		
	Rated current(A)	5	5	1.5	1.5
	Rated voltage(V)	250	250	125	5
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP68			
	Wiring type	Welding	Welding	CAT.3~CAT.6	480 Mbps
	PIN	USB3.0	HDMI2.0	HDMI2.1	Optical fiber
	Terminal Arrangement				
	Rated current(A)	1.8	0.5	0.5	-
	Rated voltage(V)	5	5	5	-
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	-	-	-	-
	Protection level	Connection status IP68			
	Wiring type	5.0 Gbps	18 Gbps	48 Gbps	insertion loss≤0.35dB Return loss≥50dB

## Product appearance and dimension drawing

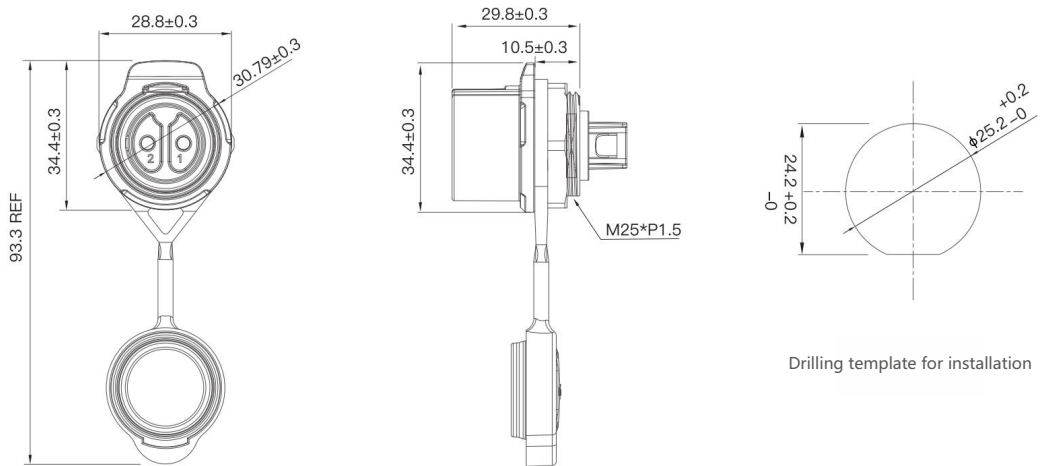
### Plug



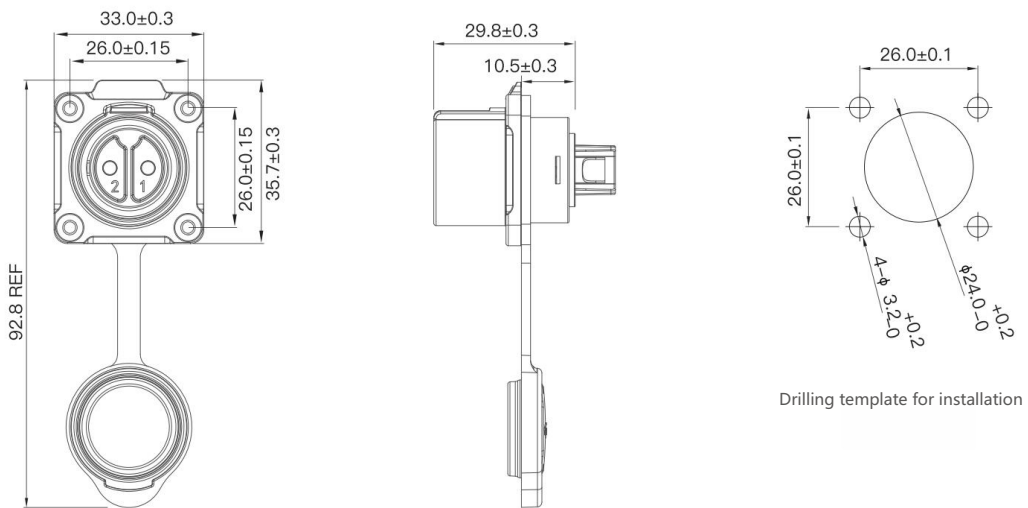
Socket



Single-hole straight socket



Four-hole flange socket



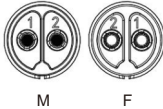
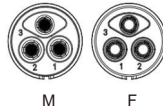
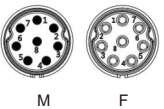
# ALP-28 Model

## Quick waterproof connector

### ALP-28 Overview of series information

Product application type	Rated voltage	Rated current	Suitable wire diameter
Power supply: 2/3 PIN Signal: 8 PIN, 2+7 PIN	500V (2~3 PIN) 300V (8 PIN)	50A (2, 3 PIN) 15A (8 PIN)	Multi-PIN type: $\Phi 10.0\sim 15.0\text{mm}$ , $\Phi 15.0\sim 17.5\text{mm}$ , $\Phi 17.5\sim 20.5\text{mm}$

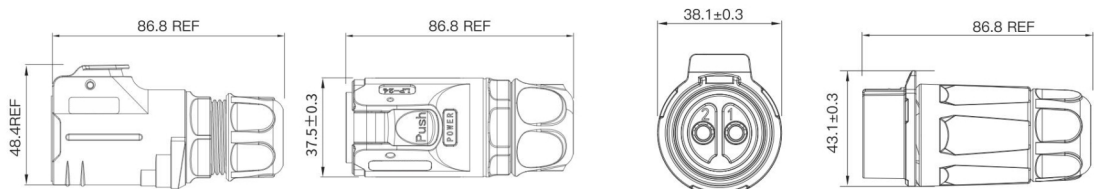
### Parameter Information

	Product Series	ALP-28			
	PIN	2 PIN	3 PIN	8 PIN	-
ALP28 Power/Signal	Terminal Arrangement	 M F	 M F	 M F	-
	Rated current(A)	50	50	15	-
	Rated voltage(V)	500	500	300	-
	Applicable wire diameters (mm)	$\Phi 10.0\sim 15.0\text{mm}$ , $\Phi 15.0\sim 17.5\text{mm}$ , $\Phi 17.5\sim 20.5\text{mm}$ (Optional)			-
	Wiring specification	$10\sim 16\text{mm}^2$ / 8~6AWG	$10\sim 16\text{mm}^2$ / 8~6AWG	$2.5\sim 4.0\text{mm}^2$ / 14~12AWG	-
	Protection level	Connection status IP68			-
	Wiring type	Riveting / Thread sewing	Riveting / Thread sewing	Welding	-

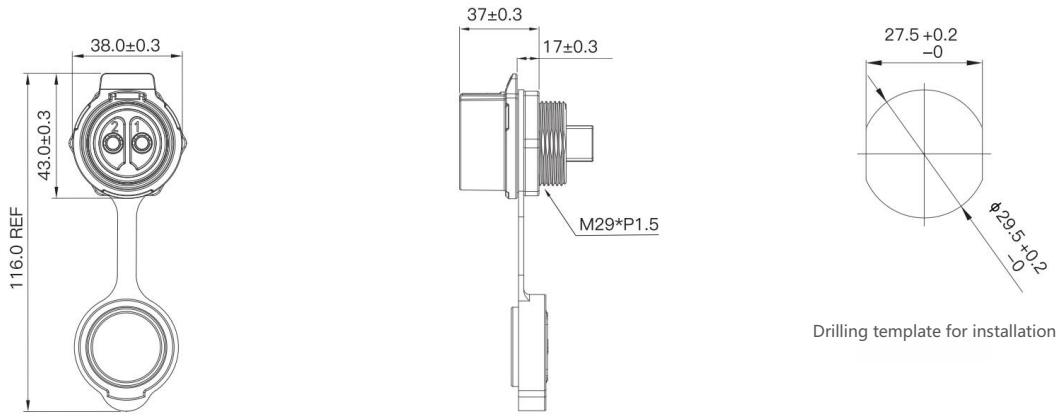
### Product appearance and dimension drawing

Plug

Socket

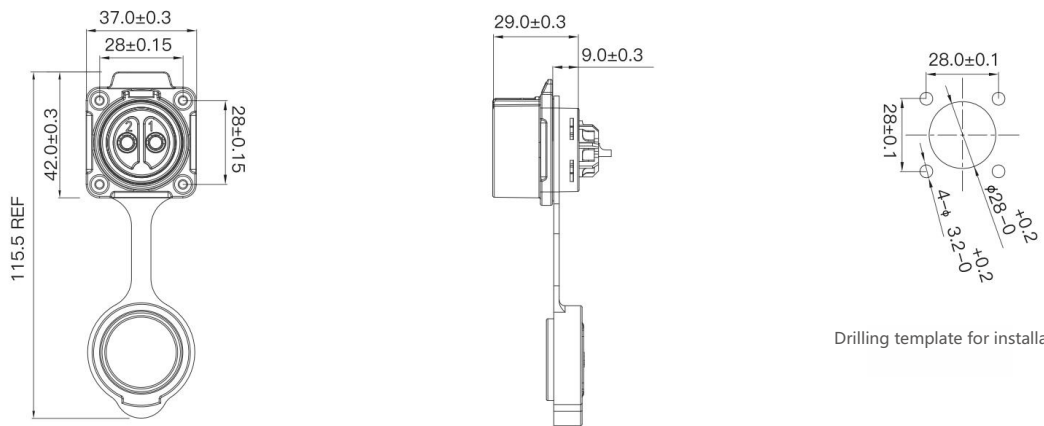


Single-hole straight socket



Drilling template for installation

Four-hole flange socket & single-hole straight socket



Drilling template for installation

# AYM SERIES

## Round plastic waterproof connector

### Product Introduction

The AYM series (Type 20, 24) waterproof connectors are made of PBT engineering plastic material as the component raw material, featuring an all-plastic shell design that enhances corrosion resistance and safety. The overall design incorporates a unique spring-type rotary locking connection. The precise internal construction and robust shell structure provide safe and stable connection transmission performance, ensuring the electrical stability of the equipment during use.

The product types include eight categories: power supply, multi-pin, hybrid, USB2.0, USB3.0, HDMI, RJ45, and fiber optic. It adopts a military-standard three-point spiral locking mechanism. The plastic material dust cover features a unique rotating outer ring locking method, allowing for one-hand plugging and unplugging operations.



The pictures are for reference only

## Series product information

Series code	AYM-20、AYM-24
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 8, 9, 10, 12, 14, 19, 24-pin, as well as customized 3+2, 2+6, 2+1+5-pin, etc.) Signal type (RJ45, fiber optic) Data types (USB2.0, USB3.0, HDMI)
Material type	Plastic type

## Main material, process and surface treatment

shell	Material	Production process
	Engineering plastic	Injection molding

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold /silver plating
LC optical fiber contact	Male/Female End (High Modulus Glass Fiber)		
Insulator	Engineering plastic	Injection molding	

## Packaging and storage

The product is packaged in a resealable bag, with small packaging boxes inside the larger packaging carton. The small packaging boxes are labeled with the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of 25°C±3°C, relative humidity of ≤72%, and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

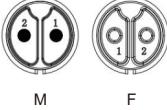
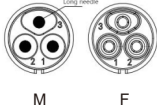
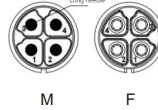
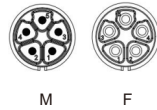
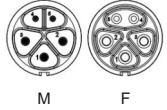
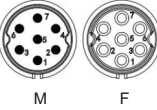
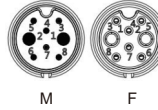
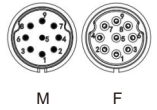
# AYM-20 Model

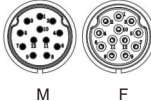
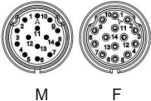
## Round plastic waterproof connector

### AYM-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/6/7/9/12/14-PIN	500V (2~6, 7 PIN) 250V(8-pin hybrid, 9-pin, 12-pin, 14-pin)	20A (2~4 PIN), 10A (5, 7 PINs), 20A+5A (8 PIN), 10A+5A (5 PINe hybrid), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

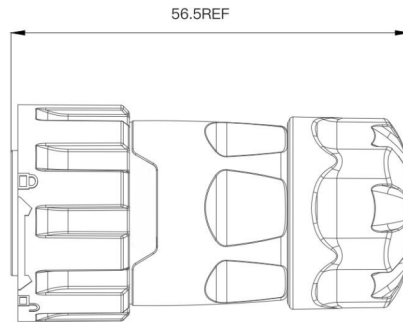
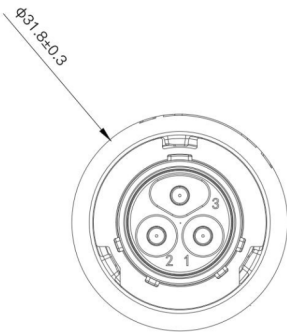
### Parameter Information

	Product Series	AYM-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
AYM20 Power/Signal	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	20	20	20	10
	Rated voltage(V)	500	500	500	500
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	500	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status IP68			
Wiring type	Welding	Welding	Welding	Welding	

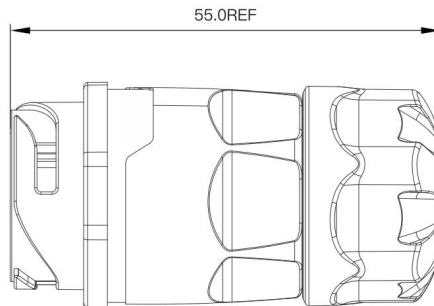
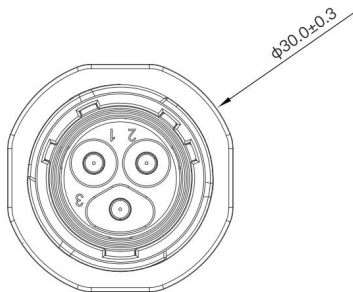
AYM20 Power/Signal	Product Series	AYM-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement	 M F	 M F	-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	-	-
	Protection level	Connection status IP68		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

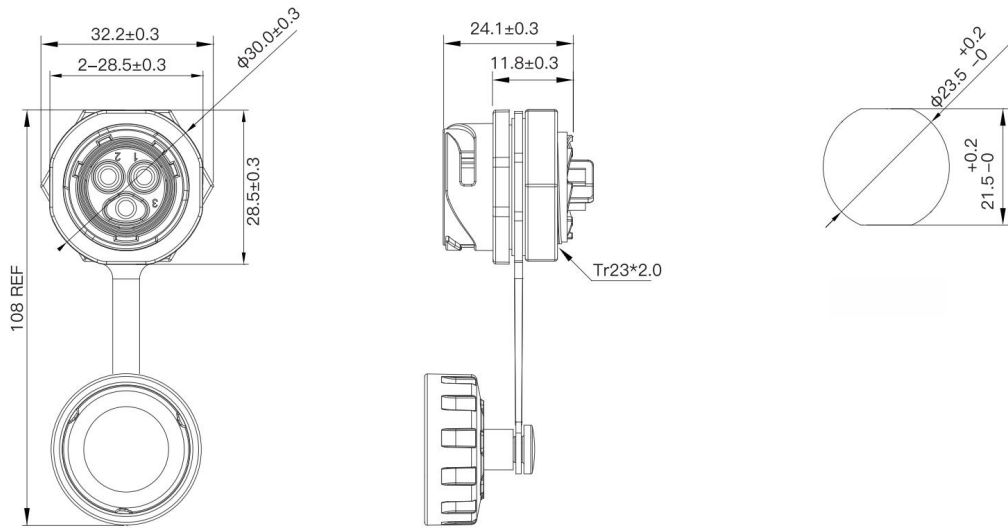
Plug



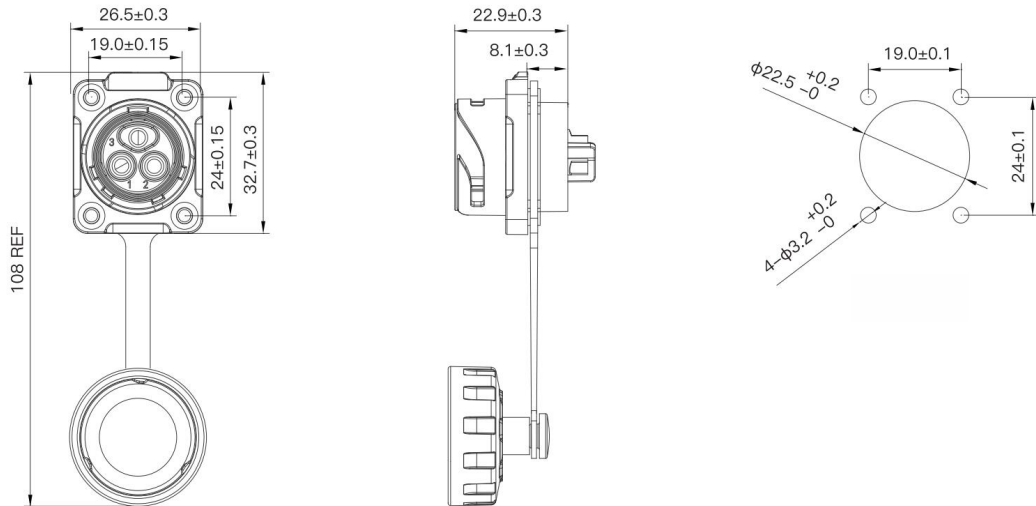
Socket



Single-hole straight socket



Four-hole flange socket



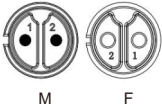
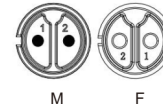
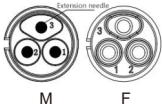
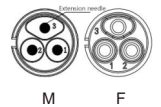
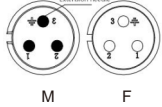
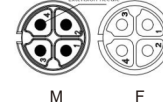
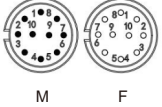
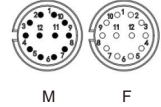
# AYM-24 Model

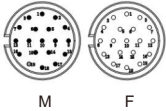
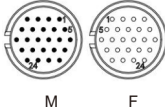






## Round plastic waterproof connector

### AYM-24 Overview of series information

Product application type	Rated voltage	Rated current	Suitable wire diameter
Power supply: 2/3/4-PIN Signal: 10/12/19/24 PIN,RJ45, Optical fiber Data:USB,HDMI	500V (2~4、10、12PIN) 300V (2、3 PIN) 250V (/19、24 PIN ) 230V(3 PIN)	45A (3 PIN) 35A (2~3 PIN) 25A(2~4 PIN) 10A(10、12PIN) 5A(19、24PIN)	Multi-PIN type:Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm Data class:Φ5.0~7.0mm, (USB、HDMI) Signal category:Φ5.0~7.0mm (RJ45), Φ5.0~7.0mm (Optical fiber)

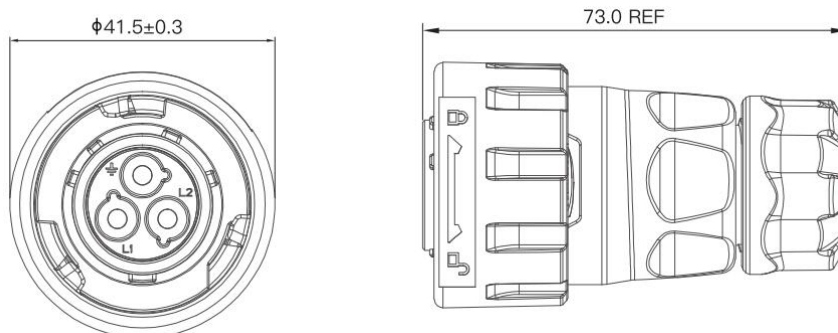
### Parameter Information

	Product Series	AYM-24			
	PIN	2 PIN		3 PIN	
AYM24 Power/Signal	Terminal Arrangement				
	Rated current(A)	25	35	25	35
	Rated voltage(V)	500	300	500	300
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing	Welding	Welding / Thread sewing	Welding
	PIN	3 PIN	4 PIN	10 PIN	12 PIN
	Terminal Arrangement				
	Rated current(A)	45	25	10	10
	Rated voltage(V)	230	500	500	500
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
Wiring specification	8 (power cord) ~ 10 (single-core wire) mm <sup>2</sup> 8~6AWG	2.5~4.0mm <sup>2</sup> /14~12AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	
Protection level	Connection status IP68				
Wiring type	Welding	Welding	Welding	Welding	

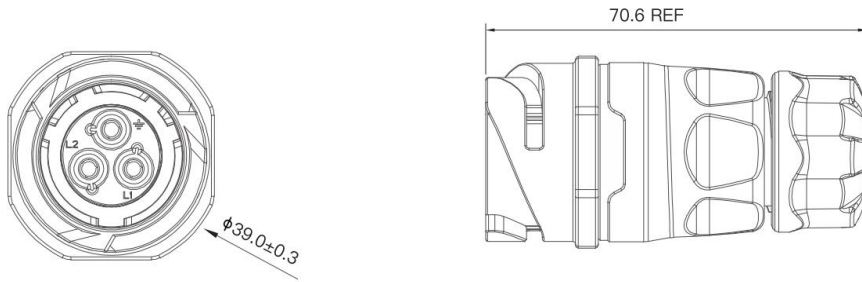
AYM24 Power/Signal	Product Series	AYM-24			
	PIN	19 PIN	24 PIN	RJ45	USB2.0
	Terminal Arrangement	 M F	 M F		
	Rated current(A)	5	5	1.5	1.5
	Rated voltage(V)	250	250	125	5
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP68			
	Wiring type	Welding	Welding	CAT.3~CAT.6	480 Mbps
	PIN	USB3.0	HDMI2.0	HDMI2.1	Optical fiber
	Terminal Arrangement				
	Rated current(A)	1.8	0.5	0.5	-
	Rated voltage(V)	5	5	5	-
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	-	-	-	-
	Protection level	Connection status IP68			
	Wiring type	5.0 Gbps	18 Gbps	48 Gbps	insertion loss≤0.35dB Return loss≥50dB

## Product appearance and dimension drawing

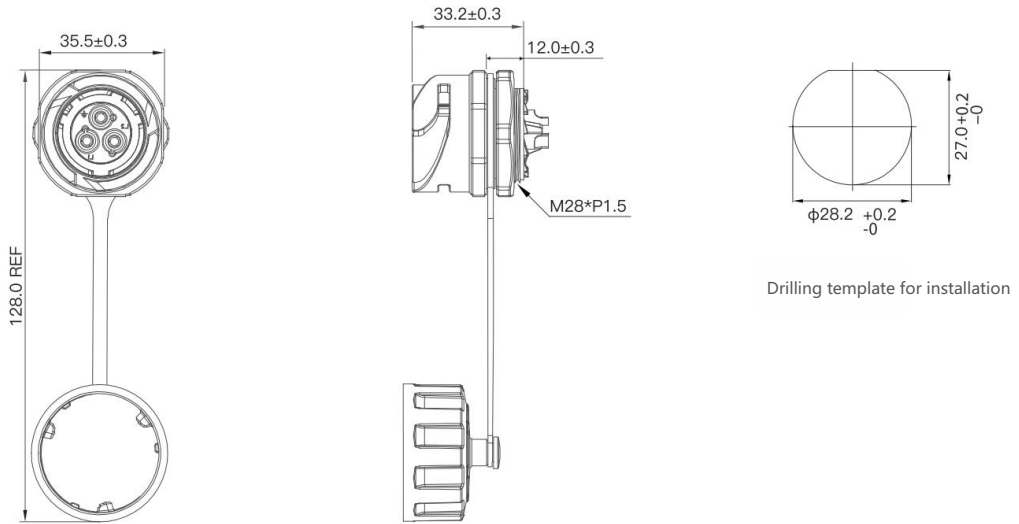
Plug



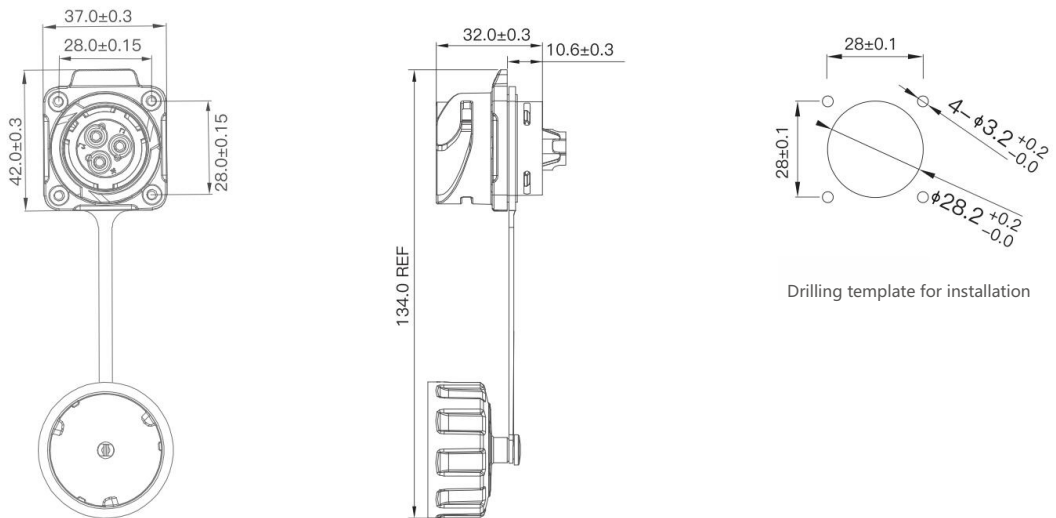
Socket



Single-hole straight socket



Four-hole flange socket



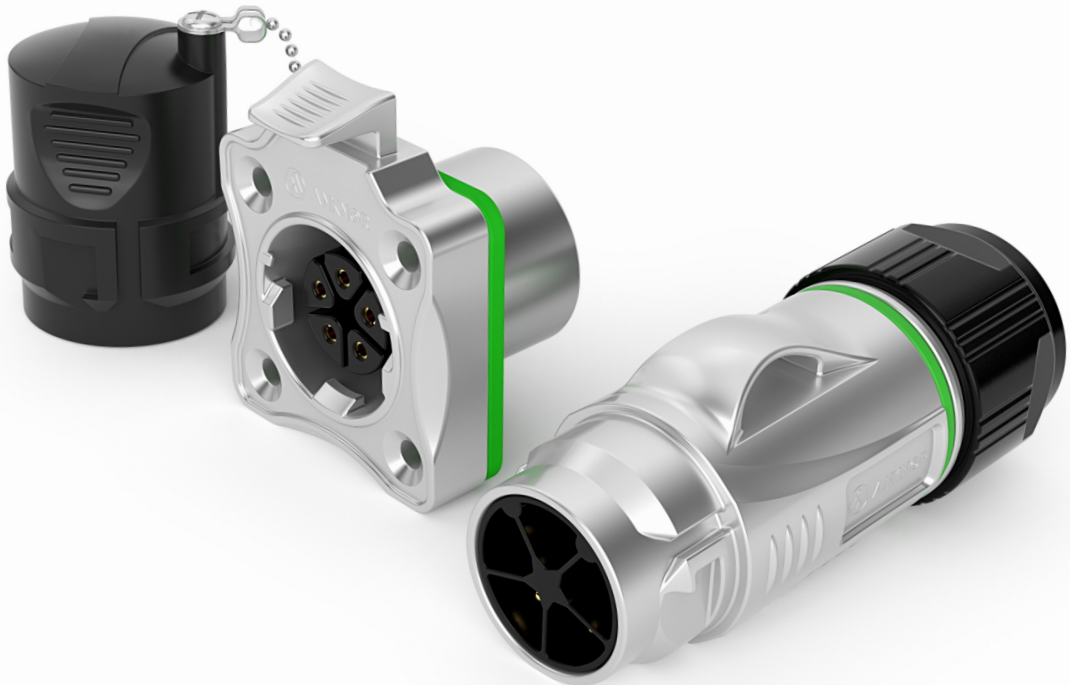
# ABD SERIES

## Quick-release connector

### Product Introduction

The ABD (20, 24 type) series waterproof connectors feature a streamlined and dynamic design, with a one-button device-end pressing for quick insertion and extraction. This design prevents button malfunctions caused by improper manual operation at the user end, effectively extending the product's service life. The precise internal construction and sturdy metal housing structure provide safe and stable connection and transmission performance, ensuring the electrical stability of the device during use. Quick insertion and extraction connectors

The product types include eight categories: power supply, multi-pin, hybrid, USB2.0, USB3.0, HDMI, RJ45, and fiber optic. The metal models use zinc alloy shells for high strength, while the plastic models use engineering plastic shells for lightweight. The products adopt a snap-on locking mechanism, allowing for one-hand operation, which is simple, safe, and reliable.



The pictures are for reference only

## Series product information

Series code	ABD-20、 ABD-24
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 8, 9, 10, 12, 14, 19, 24-pin, as well as customized 3+2, 2+6-pin, etc.) Signal type (RJ45, fiber optic) Data types (USB2.0, USB3.0, HDMI)
Material type	Plastic type, metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Engineering plastic/metal	Injection molding & die casting & machining	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold /silver plating
LC optical fiber contact	Male/Female End (High Modulus Glass Fiber)	-	-
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a resealable bag, with small packaging boxes inside the larger packing box. The small packaging boxes are labeled with the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of 25°C±3°C, relative humidity of ≤72%, and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's lifespan.

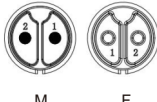
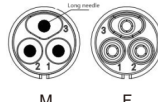
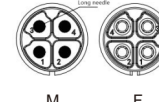
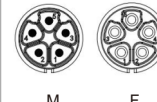
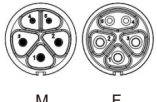
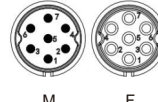
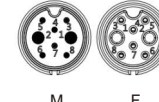
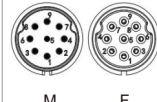
# ABD-20 Model

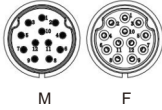
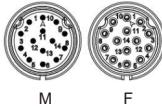
## Quick-release connector

### ABD-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/6/7/9/12/14-PIN	500V (2~5, 7 PIN) 300V(5-Pin hybrid, ) 250V(8-Pin hybrid, 9, 12, 14-Pin)	20A (2~4 PIN), 20A+5A (8 PIN hybrid), 10A+5A (5 PINe hybrid), 10A (5, 7 PINs), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

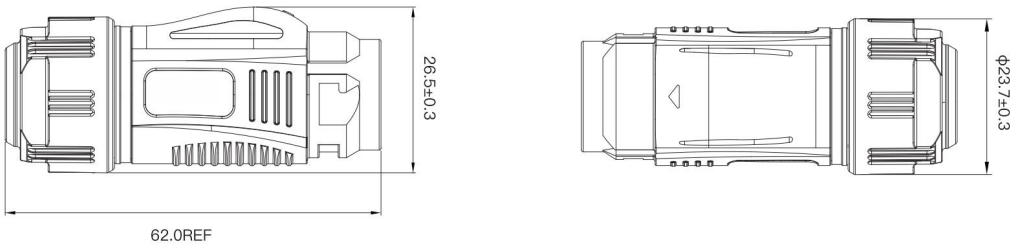
### Parameter Information

	Product Series	ABD-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
ABD20 Power/Signal	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	20	20	20	10
	Rated voltage(V)	500	500	500	500
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	500	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status IP68			
Wiring type	Welding	Welding	Welding	Welding	

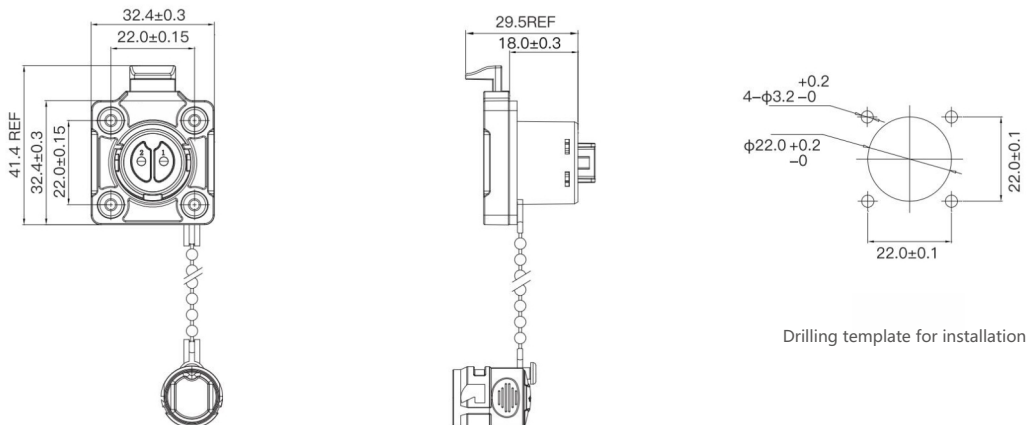
ABD20 Power/Signal	Product Series	ABD-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement			-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP68		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

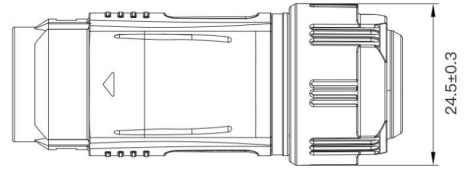
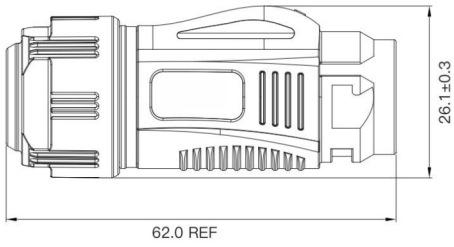
### Metal plug



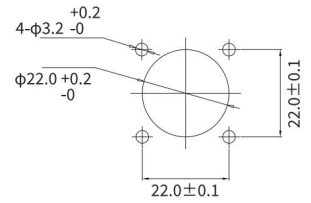
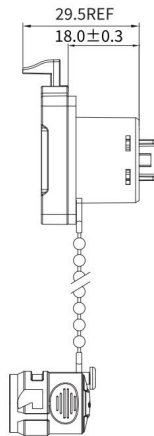
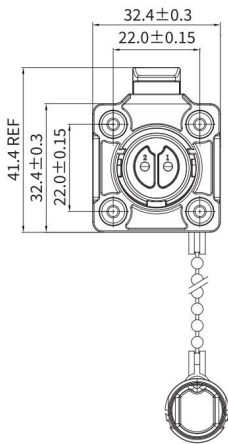
### Metal four-hole flange socket



Plastic plug



Plastic four-hole flange socket



Drilling template for installation

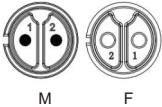
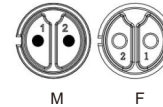
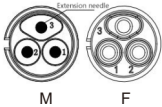
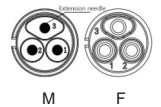
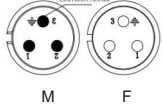
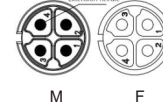
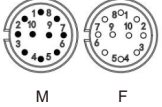
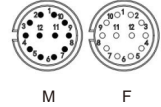
# ABD-24 Model

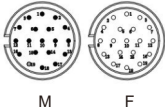
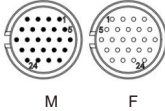






## Quick-release connector

### ABD-24 Overview of series information

Product application type	Rated voltage	Rated current	Suitable wire diameter
Power supply: 2/3/4-PIN Signal: 10/12/19/24 PIN,RJ45, Optical fiber Data:USB,HDMI	500V (2~4、10、12PIN) 300V (2、3 PIN) 250V (19、24 PIN ) 230V(3 PIN)	45A (3 PIN) 35A (2、3 PIN) 25A(2~4 PIN) 10A(10、12PIN) 5A(19、24PIN)	Multi-PIN type:Φ5.0~7.0mm, Φ7.0~10.5mm,Φ10.5~14.0mm Data class:Φ5.0~7.0mm, (USB、HDMI) Signal category:Φ5.0~7.0mm (RJ45), Φ5.0~7.0mm (Optical fiber)

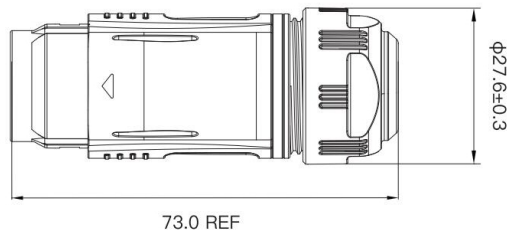
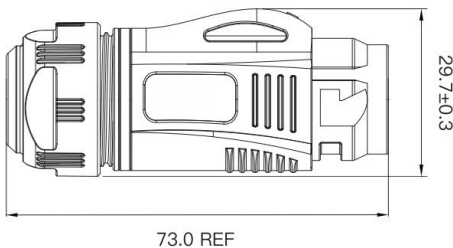
### Parameter Information

	Product Series	ABD-24			
	PIN	2 PIN		3 PIN	
ABD24 Power/Signal	Terminal Arrangement				
	Rated current(A)	25	35	25	35
	Rated voltage(V)	500	300	500	300
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing	Welding	Welding / Thread sewing	Welding
	PIN	3 PIN	4 PIN	10 PIN	12 PIN
	Terminal Arrangement				
	Rated current(A)	45	25	10	10
	Rated voltage(V)	230	500	500	500
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
Wiring specification	8 (power cord) ~ 10 (single-core wire) mm <sup>2</sup> 8~6AWG	2.5~4.0mm <sup>2</sup> /14~12AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	
Protection level	Connection status IP68				
Wiring type	Welding	Welding	Welding	Welding	

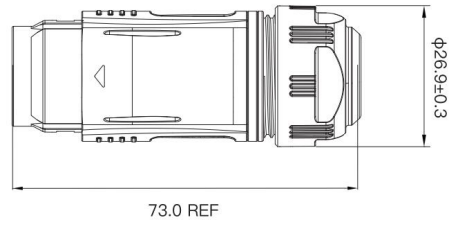
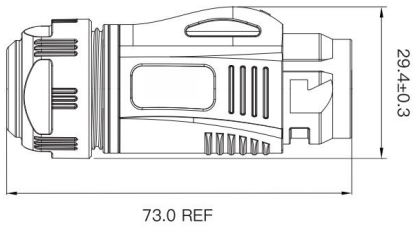
ABD24 Power/Signal	Product Series	ABD-24			
	PIN	19 PIN	24 PIN	RJ45	USB2.0
	Terminal Arrangement	 M F	 M F		
	Rated current(A)	5	5	1.5	1.5
	Rated voltage(V)	250	250	125	5
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP68			
	Wiring type	Welding	Welding	CAT.3~CAT.6	480 Mbps
	PIN	USB3.0	HDMI2.0	HDMI2.1	Optical fiber
	Terminal Arrangement				
	Rated current(A)	1.8	0.5	0.5	-
	Rated voltage(V)	5	5	5	-
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	-	-	-	-
	Protection level	Connection status IP68			
	Wiring type	5.0 Gbps	18 Gbps	48 Gbps	insertion loss≤0.35dB Return loss≥50dB

## Product appearance and dimension drawing

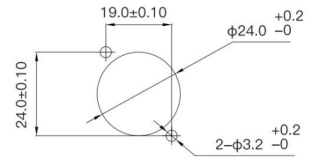
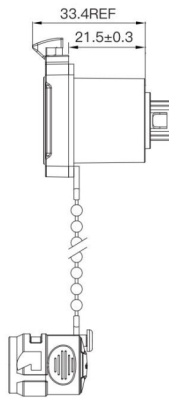
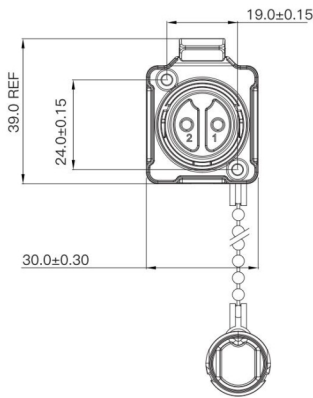
Plastic plug



### Metal plug

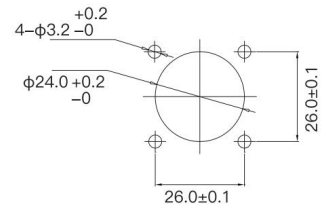
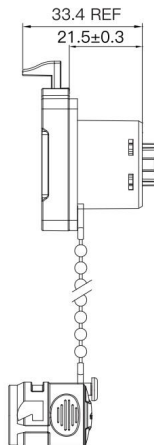
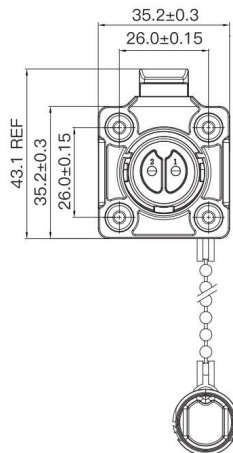


### Two-hole flange socket



Drilling template for installation

### Four-hole flange socket



Drilling template for installation

# ADH SERIES

## Metal circular connector

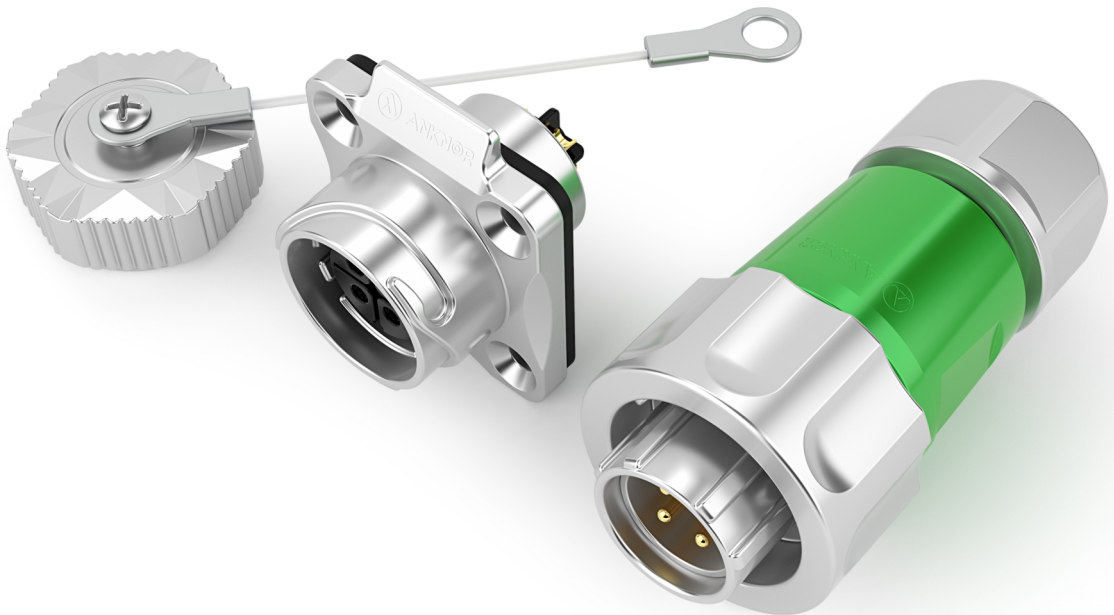
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### Product Introduction

The ADH (Type 20, 24) series of waterproof connectors feature a metal casing and employ a unique spring-type connection with a rotating locking mechanism. The precise internal construction and sturdy metal casing structure provide safe and stable connection and transmission performance, ensuring the electrical stability of the equipment during use.

The product types include eight categories: power supply, multi-pin, hybrid, USB2.0, USB3.0, HDMI, RJ45, and fiber optic. It features an all-metal alloy casing with high impact resistance, adopts a three-point spiral locking mechanism, and can be operated with one hand. The operation is simple, safe, and reliable.

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The pictures are for reference only

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## Series product information

Series code	ADH-20、ADH-24
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 9, 10, 12, 14, 19, 24-pin, as well as customized 3+2, 2+6-pin, etc.) Signal type (RJ45, fiber optic) Data types (USB2.0, USB3.0, HDMI)
Material type	Metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Metal	Injection molding & die casting & machining	Chrome plating/anodizing

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Gold-plated nickel base
LC optical fiber contact	Male/Female End (High Modulus Glass Fiber)	-	-
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a resealable bag, with small packaging boxes inside the larger packaging box. The small packaging boxes are labeled with product name, model, batch number, and product quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C}\pm 3^{\circ}\text{C}$ , relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

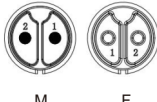
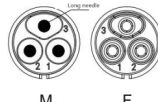
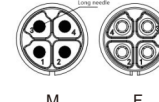
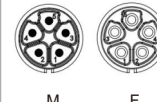
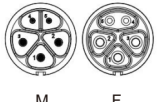
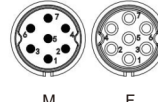
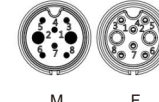
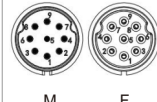
# ADH-20 Model

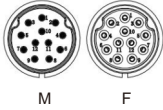
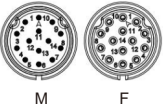
## Metal circular connector

### ADH-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/7/9/12/14-PIN	300V (2~5, 7 PIN) 250V(8-Pin hybrid, 9, 12, 14-Pin)	20A (2~4 PIN), 20A+5A (8 PIN hybrid), 10A+5A (5 PINe hybrid), 10A (5, 7 PINs), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

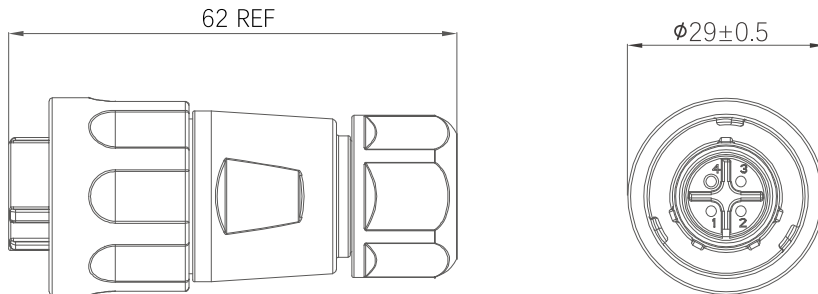
### Parameter Information

	Product Series	ADH-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
ADH20 Power/Signal	Terminal Arrangement				
	Rated current(A)	20	20	20	10
	Rated voltage(V)	300	300	300	300
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement				
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	300	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status IP68			
Wiring type	Welding	Welding	Welding	Welding	

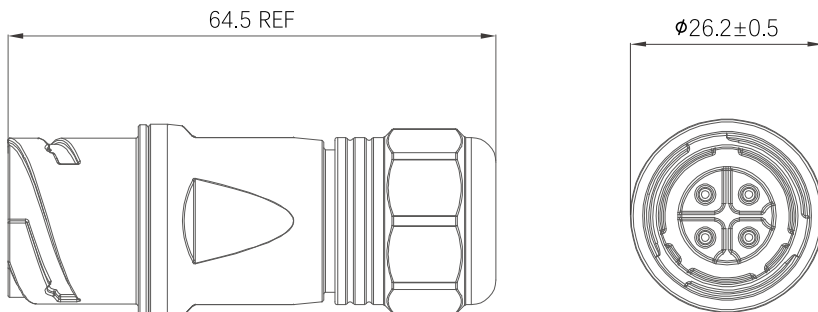
ADH20 Power/Signal	Product Series	ADH-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement	 M F	 M F	-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP68		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

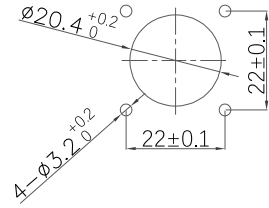
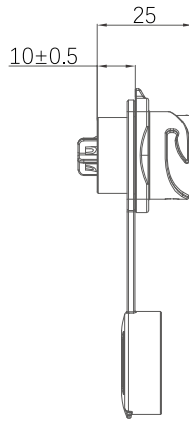
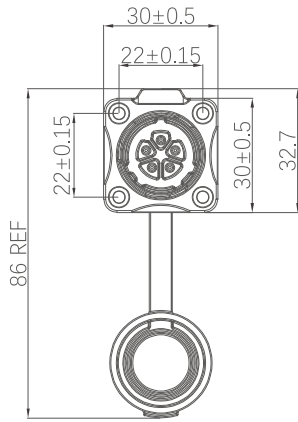
Plastic plug



Socket



Four-hole flange socket



Drilling template for installation

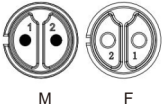
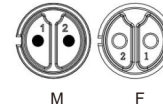
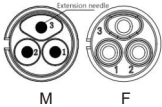
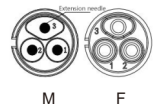
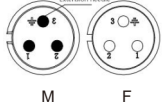
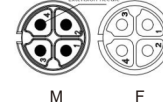
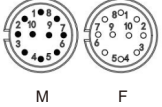
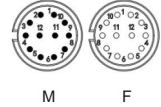
# ADH-24 Model

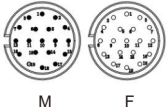
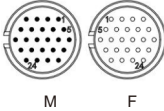






## Metal circular connector

### ADH-24 Overview of series information

Product application type	Rated voltage	Rated current	Suitable wire diameter
Power supply: 2/3/4-PIN Signal: 10/12/19/24 PIN,RJ45, Optical fiber Data:USB,HDMI	500V (2、3、10、12 PIN) 300V (2~4 PIN) 250V (19、24 PIN ) 230V(3 PIN)	45A (3 PIN) 35A (2、3 PIN) 25A(2~4 PIN) 10A(10、12PIN) 5A(19、24PIN)	Multi-PIN type:Φ5.0~7.0mm, Φ7.0~10.5mm,Φ10.5~14.0mm Data class:Φ5.0~7.0mm, (USB、HDMI) Signal category:Φ5.0~7.0mm (RJ45), Φ5.0~7.0mm (Optical fiber)

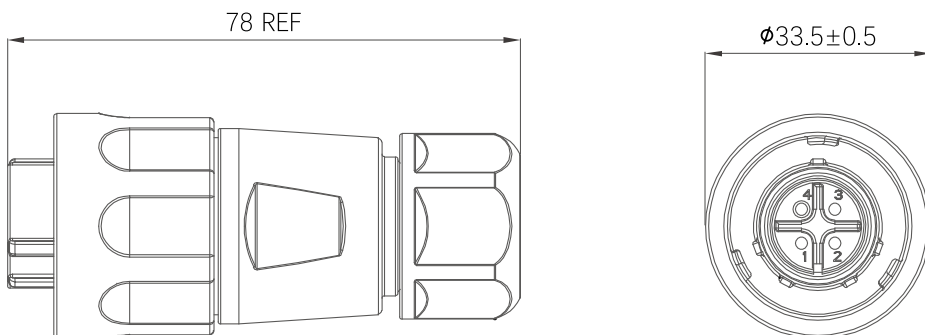
### Parameter Information

	Product Series	ADH-24			
	PIN	2 PIN		3 PIN	
ADH24 Power/Signal	Terminal Arrangement				
	Rated current(A)	25	35	25	35
	Rated voltage(V)	500	300	500	300
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG
	Protection level	Connection status IP68			
	Wiring type	Welding / Thread sewing	Welding	Welding / Thread sewing	Welding
	PIN	3 PIN	4 PIN	10 PIN	12 PIN
	Terminal Arrangement				
	Rated current(A)	45	25	10	10
	Rated voltage(V)	230	500	500	500
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	8 (power cord) ~ 10 (single-core wire) mm <sup>2</sup> 8~6AWG	2.5~4.0mm <sup>2</sup> /14~12AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	1.0~1.5mm <sup>2</sup> /18~16AVG
Protection level	Connection status IP68				
Wiring type	Welding	Welding	Welding	Welding	

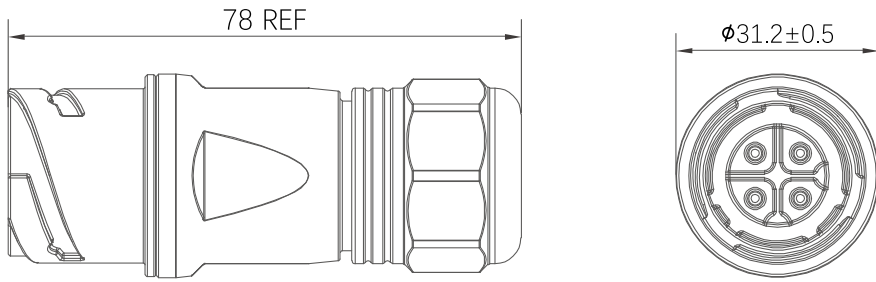
ADH24 Power/Signal	Product Series	ADH-24			
	PIN	19 PIN	24 PIN	RJ45	USB2.0
	Terminal Arrangement	 M F	 M F		
	Rated current(A)	5	5	1.5	1.5
	Rated voltage(V)	250	250	125	5
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP68			
	Wiring type	Welding	Welding	CAT.3~CAT.6	480 Mbps
	PIN	USB3.0	HDMI2.0	HDMI2.1	Optical fiber
	Terminal Arrangement				
	Rated current(A)	1.8	0.5	0.5	-
	Rated voltage(V)	5	5	5	-
	Applicable wire diameters (mm)	Φ5.0~7.0mm, Φ7.0~10.5mm, Φ10.5~14.0mm (Optional)			
	Wiring specification	-	-	-	-
	Protection level	Connection status IP68			
	Wiring type	5.0 Gbps	18 Gbps	48 Gbps	insertion loss≤0.35dB Return loss≥50dB

## Product appearance and dimension drawing

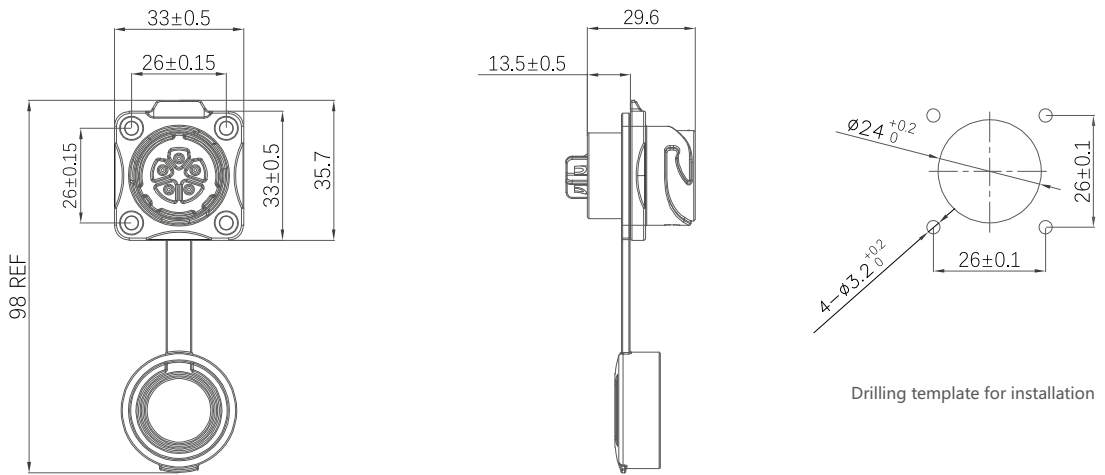
Plug



### Socket



### Four-hole flange socket



# ADZ SERIES

## Metal circular connector

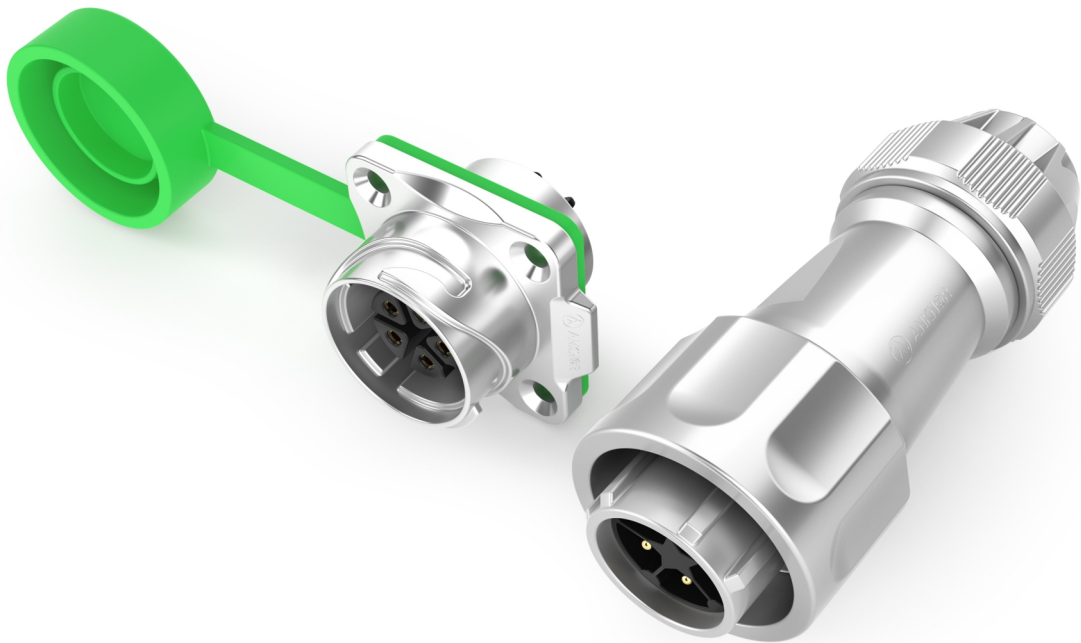
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### Product Introduction

The ADZ (Type 20, 24) series of waterproof connectors feature a metal housing and employ a unique spring-type rotary locking connection. With its precise internal construction and sturdy metal housing structure, it provides safe and stable connection and transmission performance, ensuring the electrical stability of the equipment during use.

The product types include eight categories: power supply, multi-core, hybrid, USB2.0, USB3.0, HDMI, RJ45, and fiber optic. The all-metal casing boasts high impact resistance, effectively reducing electromagnetic and signal interference generated by external currents. It adopts military-standard three-point spiral locking, ensuring safety and reliability.

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The pictures are for reference only

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## Series product information

Series code	ADZ-20, ADZ-24
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 8, 9, 10, 12, 14, 19, 24-pin, as well as customized 3+2, 2+6-pin, etc.) Signal type (RJ45, fiber optic) Data types (USB2.0, USB3.0, HDMI)
Material type	Metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Metal	Machining & Stamping	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold /silver plating
LC optical fiber contact	Male/Female End (High Modulus Glass Fiber)	-	-
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a self-sealing bag, with a small packaging box inside the larger packing box. The small packaging box is labeled with the product name, model, batch number, and quantity of products. It is recommended that the packaged products be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C}\pm 3^{\circ}\text{C}$ , relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

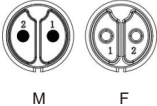
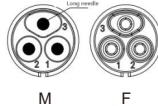
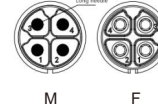
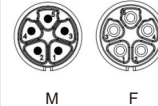
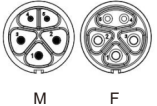
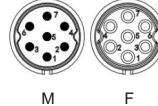
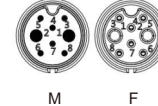
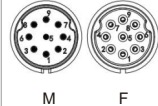
# ADZ-20 Model

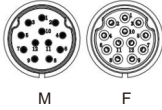
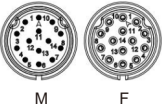
## Metal circular connector

### ADZ-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/7/9/12/14-PIN	300V (2~5, 7 PIN) 250V(8-Pin hybrid, 9, 12, 14-Pin)	20A (2~4 PIN), 20A+5A (8 PIN hybrid), 10A+5A (5 PINe hybrid), 10A (5, 7 PINs), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

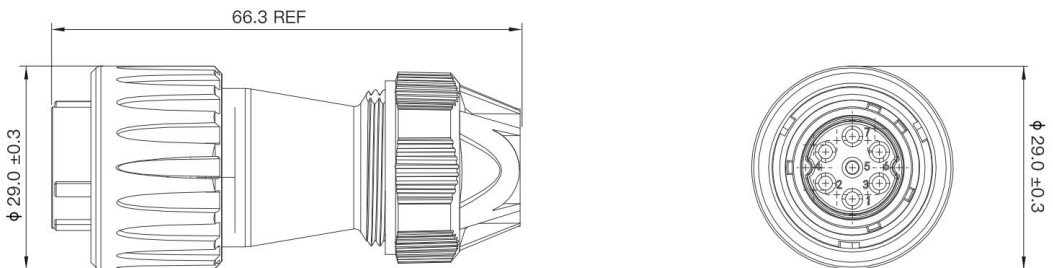
### Parameter Information

	Product Series	ADZ-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
ADZ20 Power/Signal	Terminal Arrangement				
	Rated current(A)	20	20	20	10
	Rated voltage(V)	300	300	300	300
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status Ip67			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement				
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	300	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status Ip67			
Wiring type	Welding	Welding	Welding	Welding	

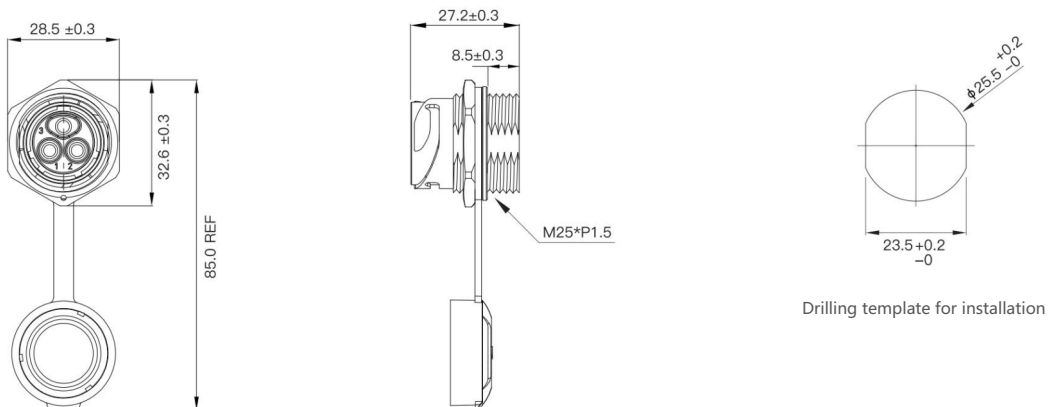
ADZ20 Power/Signal	Product Series	ADZ-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement	 M F	 M F	-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status Ip67		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

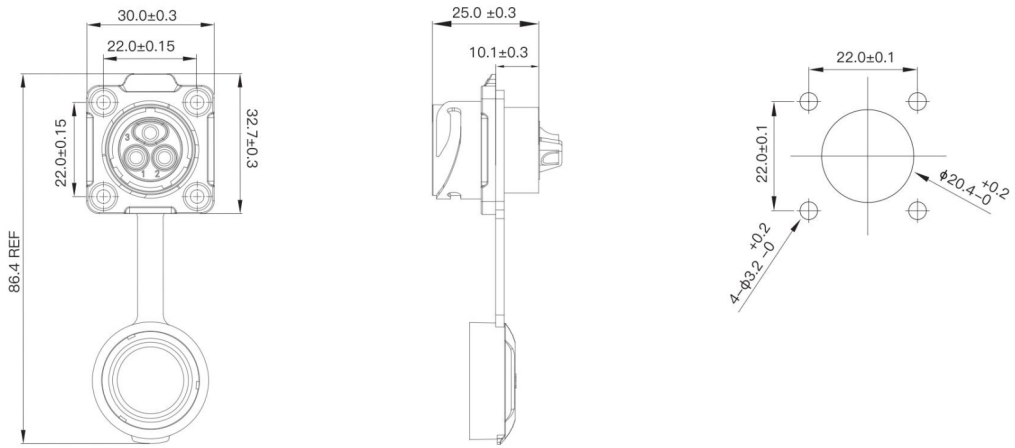
### Plug



### Single-hole straight socket



# Four-hole flange socket



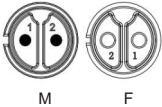
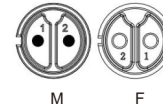
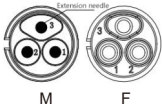
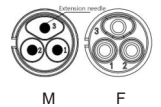
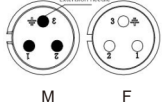
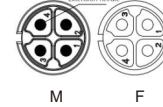
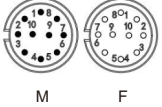
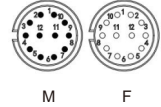
# ADZ-24 Model

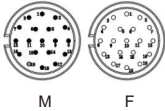
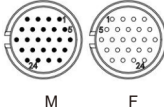






## Metal circular connector

### ADZ-24 Overview of series information

Product application type	Rated voltage	Rated current	Suitable wire diameter
Power supply: 2/3/4-PIN Signal: 10/12/19/24 PIN,RJ45, Optical fiber Data:USB,HDMI	500V (2~4 PIN) 400V (10、12 PIN) 300V (2、3 PIN ) 250V(19、24 PIN) 230V(3 PIN)	45A (3 PIN) 35A (2、3 PIN) 25A(2~4 PIN) 10A(10、12PIN) 5A(19、24PIN)	Multi-PIN type: Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm Data class: Φ5.0~6.5mm, (USB、HDMI) Signal category: Φ5.0~7.0mm (RJ45), Φ5.0~6.5mm (Optical fiber)

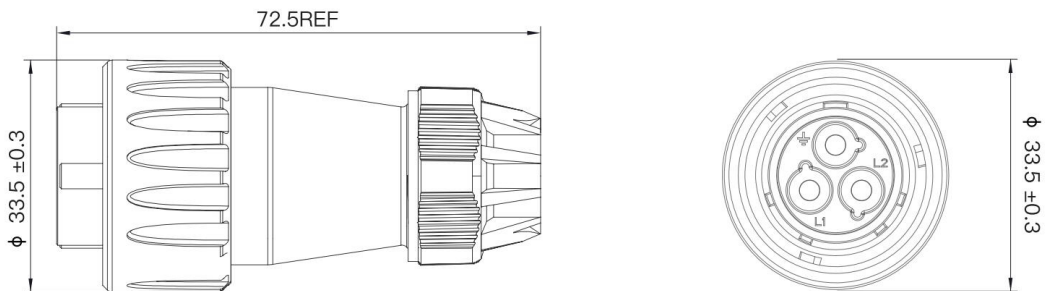
### Parameter Information

	Product Series	ADZ-24			
	PIN	2 PIN		3 PIN	
ADZ24 Power/Signal	Terminal Arrangement				
	Rated current(A)	25	35	25	35
	Rated voltage(V)	500	300	500	300
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	6.0~8.0mm <sup>2</sup> / 10~8AWG
	Protection level	Connection status Ip67			
	Wiring type	Welding / Thread sewing	Welding	Welding / Thread sewing	Welding
	PIN	3 PIN	4 PIN	10 PIN	12 PIN
	Terminal Arrangement				
	Rated current(A)	45	25	10	10
	Rated voltage(V)	230	500	400	400
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
Wiring specification	8 (power cord) ~ 10 (single-core wire) mm <sup>2</sup> 8~6AWG	2.5~4.0mm <sup>2</sup> /14~12AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	
Protection level	Connection status Ip67				
Wiring type	Welding	Welding	Welding	Welding	

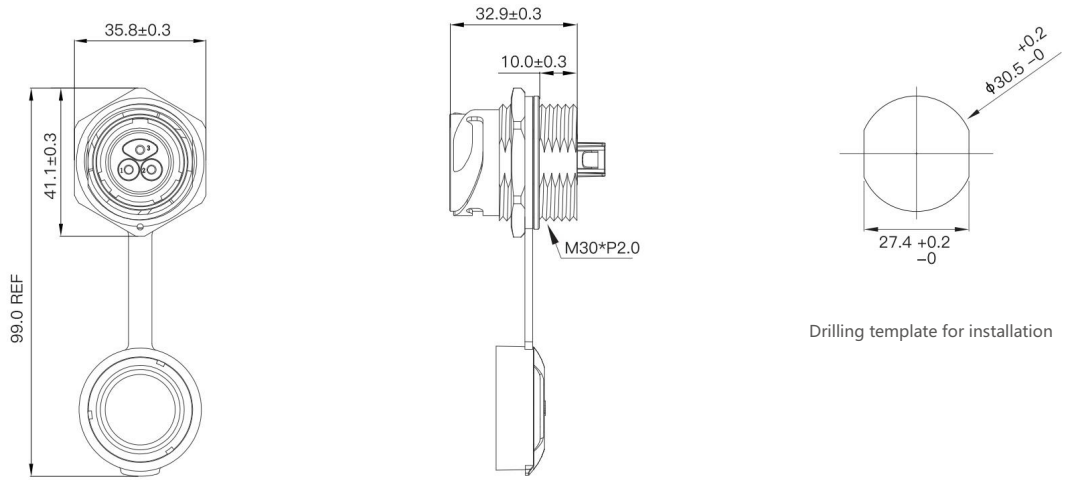
ADZ24 Power/Signal	Product Series	ADZ-24			
	PIN	19 PIN	24 PIN	RJ45	USB2.0
	Terminal Arrangement	 M F	 M F		
	Rated current(A)	5	5	1.5	1.5
	Rated voltage(V)	250	250	125	5
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status Ip67			
	Wiring type	Welding	Welding	CAT.3~CAT.6	480 Mbps
	PIN	USB3.0	HDMI2.0	HDMI2.1	Optical fiber
	Terminal Arrangement				
	Rated current(A)	1.8	0.5	0.5	-
	Rated voltage(V)	5	5	5	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	-	-	-	-
	Protection level	Connection status IP67			
	Wiring type	5.0 Gbps	18 Gbps	48 Gbps	insertion loss≤0.35dB Return loss≥50dB

## Product appearance and dimension drawing

### Plug

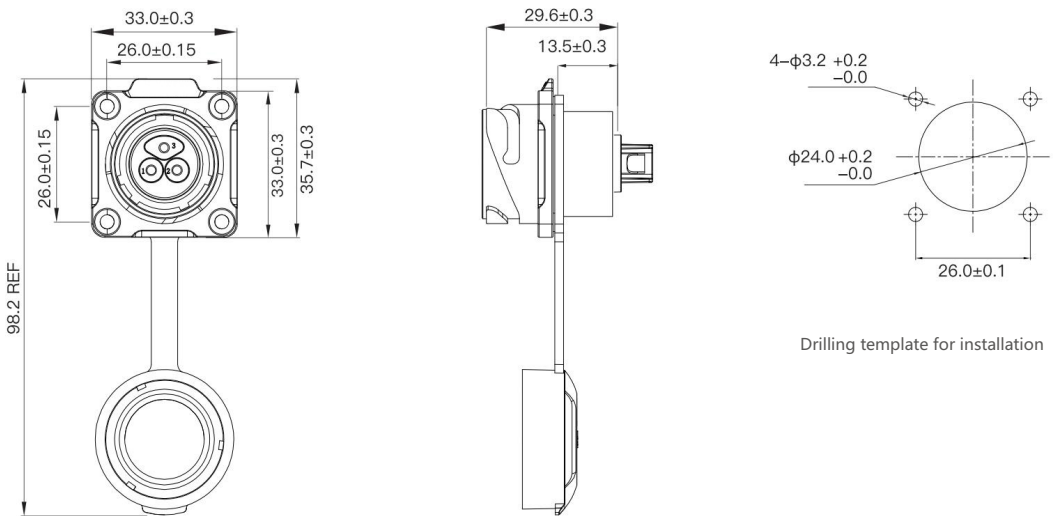


### Single-hole straight socket



Drilling template for installation

### Four-hole flange socket



Drilling template for installation

# AYA SERIES

## Flip-type self-locking waterproof connector

### Product Introduction

The AYA (Type 20) series of waterproof connectors, featuring a unique bayonet design, rotary locking, and easy operation, is widely used in industrial LED displays, audio, commerce, entertainment, live stage equipment, DMX lighting, and industrial equipment. It includes a range of multi-pin metal connectors, offering both male and female connectors as well as receptacles. These connectors can be secured through welding, ensuring a complete connection with a simple, reliable, and quick locking system.

The product types include power supplies with 2, 3, 4, 5, 7, 9, 12, and 14 pins. The metal models feature a zinc alloy shell for high strength, while the plastic models utilize an engineering plastic shell for lightweight construction. The socket incorporates an automatic flip-cover protection function, offering simple operation, safety, and stability.



The pictures are for reference only

## Series product information

Series code	AYA-20
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 9, 12, 14-pin) The power connection can operate at a voltage of up to 500V, with rated currents of 20A for 2~4 cores, 10A for 5 and 7 cores, and 5A for 9, 12, and 14 cores
Material type	Plastic + Metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Engineering plastics/metals	Injection molding & die casting & machining	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold /silver plating
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a resealable bag, with a small packing box inside the larger packing box. The small packing box is labeled with the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

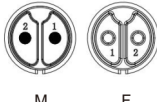
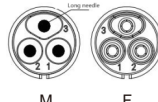
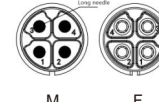
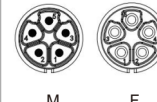
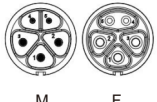
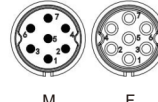
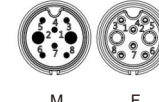
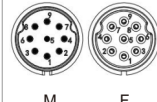
# AYA-20 Model

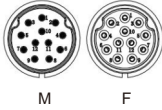
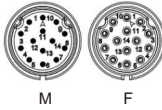
## Flip-type self-locking waterproof connector

### AYA-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/7/9/12/14-PIN	300V (2~5, 7 PIN) 250V(8-Pin hybrid, 9, 12, 14-Pin)	20A (2~4 PIN), 20A+5A (8 PIN hybrid), 10A+5A (5 PINe hybrid), 10A (5, 7 PINs), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

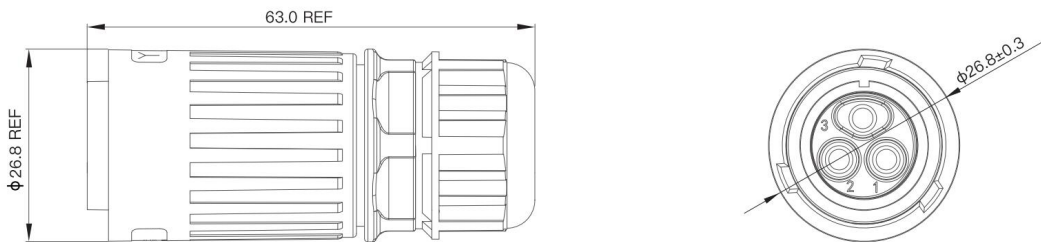
### Parameter Information

	Product Series	AYA-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
AYA20 Power/Signal	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	20	20	20	10
	Rated voltage(V)	500	500	500	500
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status Ip67			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	300	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG	
Protection level	Connection status Ip67				
Wiring type	Welding	Welding	Welding	Welding	

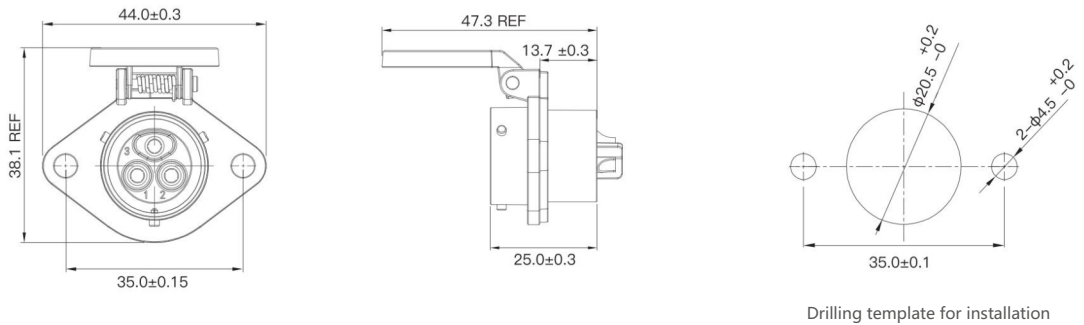
AYA20 Power/Signal	Product Series	AYA-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement	 M      F	 M      F	-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	$\Phi 5.0\sim 6.5\text{mm}$ , $\Phi 6.5\sim 8.5\text{mm}$ , $\Phi 8.5\sim 10.0\text{mm}$ , $\Phi 10.0\sim 12.0\text{mm}$ (Optional)			
	Wiring specification	$0.34\sim 0.5\text{mm}^2$ / 22~20AWG	$0.34\sim 0.5\text{mm}^2$ / 22~20AWG	-	-
	Protection level	Connection status IP67		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

### Plug



### Socket



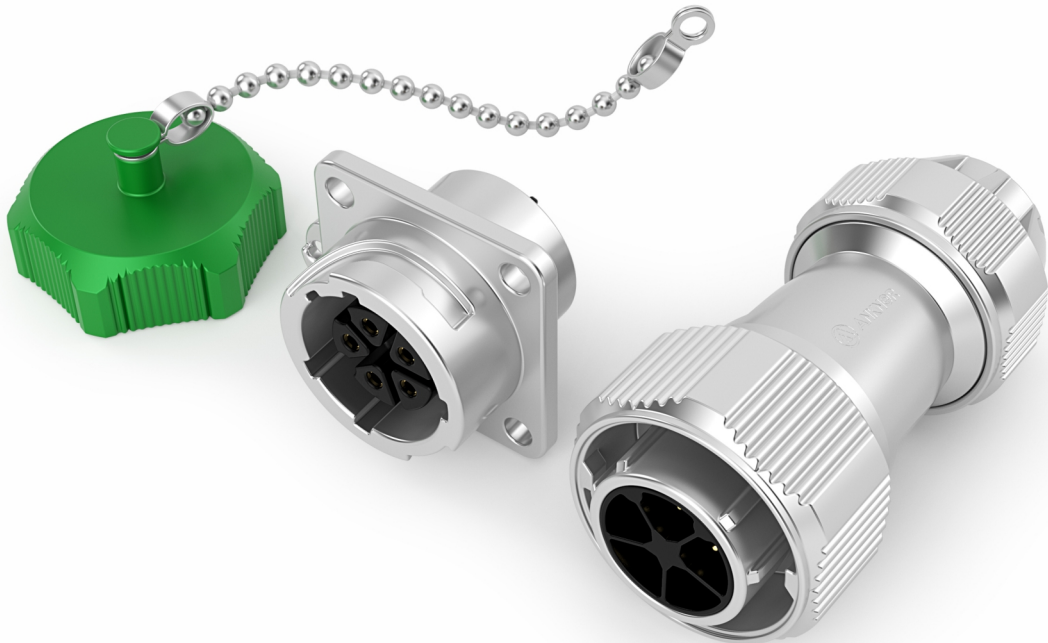
# AYZ SERIES

## Metal circular waterproof connector

### Product Introduction

The AYZ (Type 20) series waterproof connector, featuring a full zinc alloy housing structure and pure gold plated contacts, meets the high-end product application requirements. It adopts a rotary locking mechanism, ensuring safety and security. With its compatibility for both 3PIN power supplies and different core counts, it is widely used in various fields.

The product types include power supplies with 2, 3, 4, 5, 7, 9, 12, and 14 pins. The metal models feature a zinc alloy casing for high strength, while the plastic models utilize an engineering plastic casing for lightweight. The AYZ series adopts a nut-type locking design, ensuring simple operation, safety, and stability.



The pictures are for reference only

## Series product information

Series code	AYZ-20
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 9, 12, 14-pin) The power connection can operate at a voltage of up to 500V, with rated currents of 20A for 2~4 cores, 10A for 5 and 7 cores, and 5A for 9, 12, and 14 cores
Material type	Metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Metals	Die casting & machining	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold /silver plating
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a self-sealing bag, with a small packing box inside the larger packing box. The small packing box is labeled with the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$  and a relative humidity of  $\leq 72\%$ , where there is no acidic, alkaline, or other corrosive gas in the surrounding air. Other storage environments may affect the product's service life.

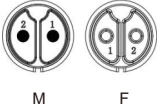
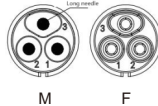
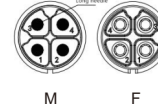
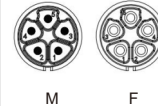
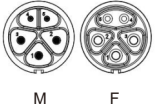
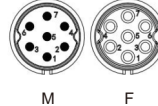
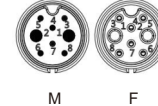
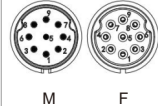
# AYZ-20 Model

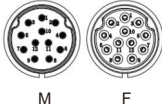
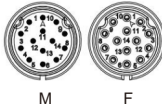
## Metal circular waterproof connector

### AYZ-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/7/9/12/14-PIN	300V (2~5, 7 PIN) 250V(8-Pin hybrid, 9, 12, 14-Pin)	20A (2~4 PIN), 20A+5A (8 PIN hybrid), 10A+5A (5 PINe hybrid), 10A (5, 7 PINs), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

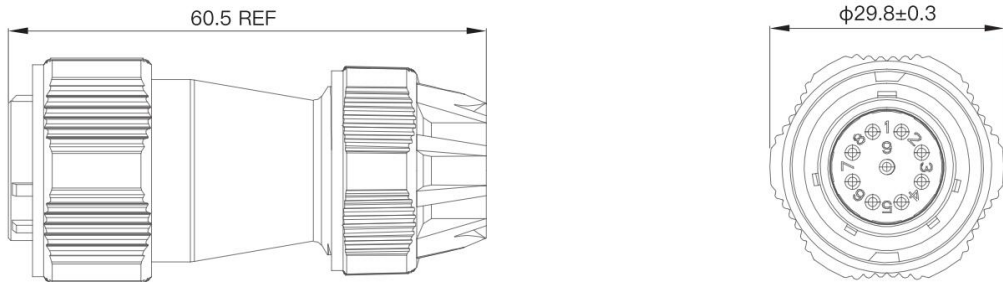
### Parameter Information

	Product Series	AYZ-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
AYZ20 Power/Signal	Terminal Arrangement				
	Rated current(A)	20	20	20	10
	Rated voltage(V)	300	300	300	300
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status IP67			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement				
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	300	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status IP67			
Wiring type	Welding	Welding	Welding	Welding	

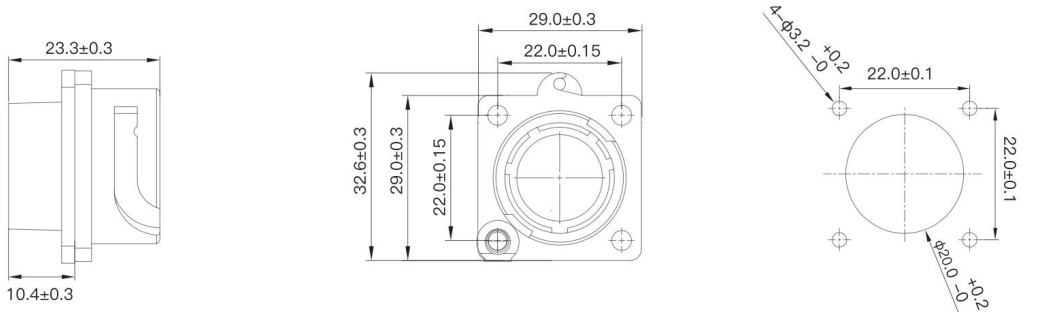
AYZ20 Power/Signal	Product Series	AYZ-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement			-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP67		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

### Plug



### Socket



Drilling template for installation

# AYW SERIES

## Threaded circular waterproof connector

### Product Introduction

The AYW series waterproof connectors feature a zinc alloy housing for effective safety and signal shielding protection, and utilize a screw-type locking mechanism for greater firmness and reliability. They are widely used in industrial LED screen design schemes, audio and video transmission, and other industrial equipment applications.

The product types include power supplies with 2, 3, 4, 5, 7, 9, 12, and 14 pins. The metal models utilize a zinc alloy shell for high strength, while the plastic models employ an engineering plastic shell for lightweight construction. They feature a threaded locking design, ensuring simple operation, safety, and stability.



The pictures are for reference only

## Series product information

Series code	AYW-16、AYW-20
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (2, 3, 4, 5, 7, 9, 12, 14-pin) The power connection can operate at a voltage of up to 500V, with rated currents of 20A for 2~4 cores, 10A for 5 and 7 cores, and 5A for 9, 12, and 14 cores
Material type	Plastic + Metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Engineering plastics/metals	Injection molding & die casting & machining	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a resealable bag, with a small box inside the larger packaging box. The small box is labeled with the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of 25°C±3°C, relative humidity of ≤72%, and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's lifespan. Nickel-based gold

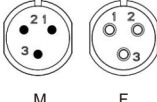
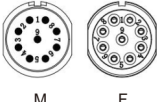
# AYW-16 Model

## Threaded circular waterproof connector

### AYW-16 Overview of series information

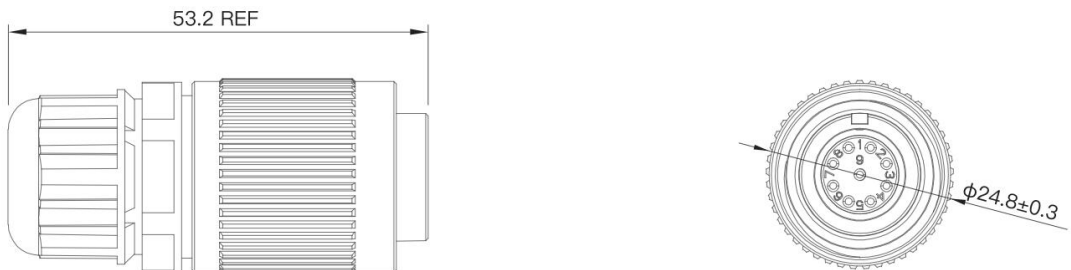
Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 3 PIN Signal: 9 PIN	400V (3 PIN) 250V(9 Pin )	10A(3 PINe) 5A (9 PINs)	Applicable wire diameters Φ3.0~5.0mm, Φ5.0~7.0mm, Φ7.0~9.0mm

### Parameter Information

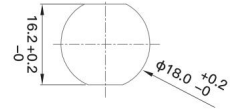
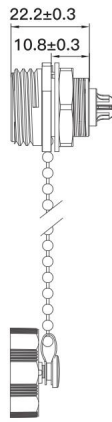
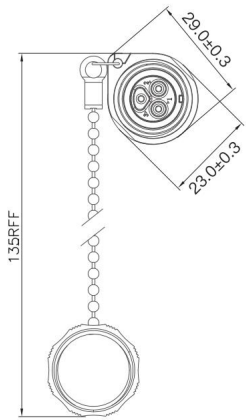
	Product Series	AYW-16		
	PIN	3 PIN	9 PIN	-
AYW16 Power/Signal	Terminal Arrangement			-
	Rated current(A)	10	5	-
	Rated voltage(V)	400	250	-
	Applicable wire diameters (mm)	Φ3.0~5.0mm, Φ5.0~7.0mm, Φ7.0~9.0mm (Optional)		
	Wiring specification	1.0~1.5mm <sup>2</sup> / 18~16AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-
	Protection level	Connection status IP67		
	Wiring type	Welding / Thread sewing	Welding	-

### Product appearance and dimension drawing

Plug

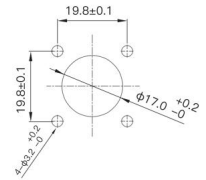
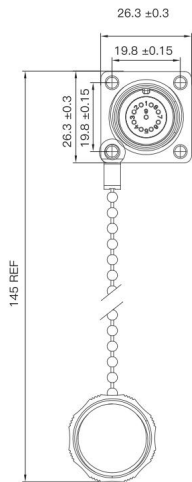


### Single-hole straight socket



Drilling template  
 for installation

### Four-hole flange socket



Drilling template  
 for installation

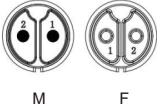
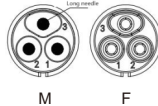
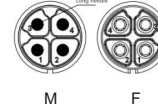
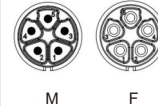
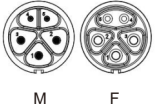
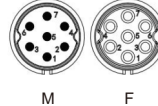
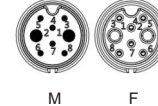
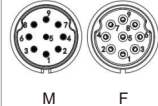
# AYW-20 Model

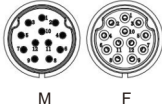
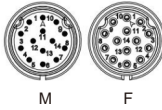
## Threaded circular waterproof connector

### AYW-20 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4 PIN Signal: 5/7/9/12/14-PIN	500V (2~5、 7 PIN) 250V(8-Pin hybrid, 9, 12, 14-Pin)	20A (2~4 PIN), 20A+5A (8 PIN hybrid), 10A (5, 7 PINs), 5A (9, 12, 14 PIN)	Applicable wire diameters Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm

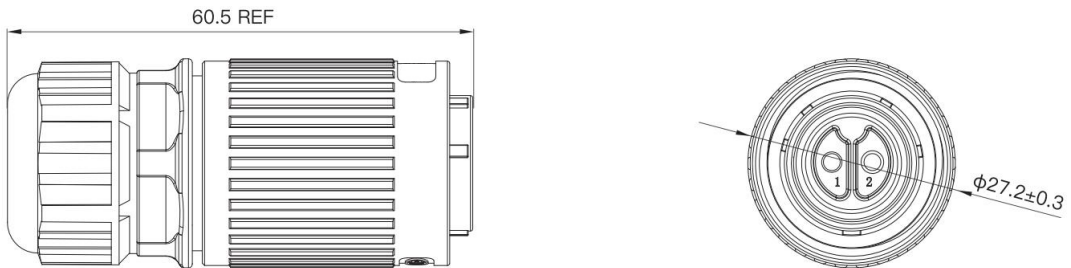
### Parameter Information

	Product Series	AYW-20			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
AYW20 Power/Signal	Terminal Arrangement				
	Rated current(A)	20	20	20	10
	Rated voltage(V)	500	500	500	500
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	2.5~4.0mm <sup>2</sup> / 14~12AWG	1.0~1.5mm <sup>2</sup> / 18~16AWG
	Protection level	Connection status IP67			
	Wiring type	Welding / Thread sewing		Welding	
	PIN	5 PIN	7 PIN	8 PIN	9 PIN
	Terminal Arrangement				
	Rated current(A)	10/5	10	20/5	5
	Rated voltage(V)	300	500	250	250
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm,Φ10.0~12.0mm (Optional)			
	Wiring specification	1.0~1.5mm <sup>2</sup> /18~16AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	1.0~1.5mm <sup>2</sup> /18~16AVG	2.5~4.0mm <sup>2</sup> /14~12AVG 0.34~0.5mm <sup>2</sup> /22~20AVG	0.34~0.5mm <sup>2</sup> /22~20AVG
	Protection level	Connection status IP67			
Wiring type	Welding	Welding	Welding	Welding	

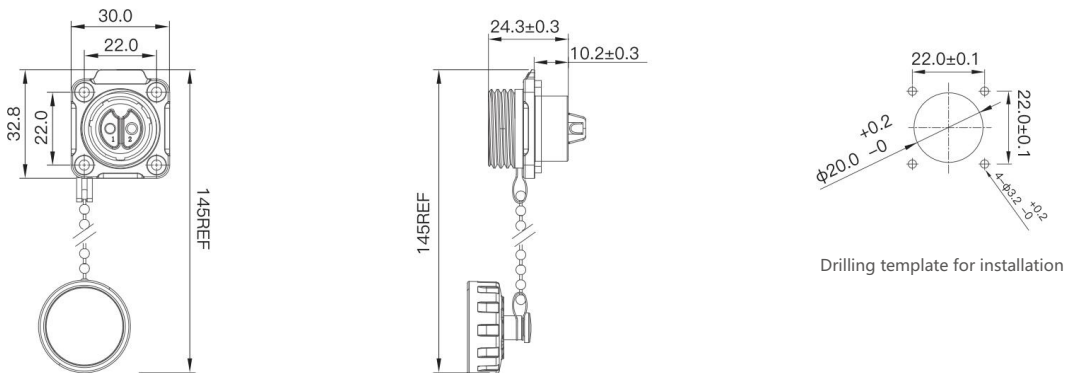
AYW20 Power/Signal	Product Series	AYW-20			
	PIN	12 PIN	14 PIN	-	-
	Terminal Arrangement			-	-
	Rated current(A)	5	5	-	-
	Rated voltage(V)	250	250	-	-
	Applicable wire diameters (mm)	Φ5.0~6.5mm, Φ6.5~8.5mm, Φ8.5~10.0mm, Φ10.0~12.0mm (Optional)			
	Wiring specification	0.34~0.5mm <sup>2</sup> / 22~20AWG	0.34~0.5mm <sup>2</sup> / 22~20AWG	-	-
	Protection level	Connection status IP67		-	-
	Wiring type	Welding		-	-

## Product appearance and dimension drawing

### Plug



### Socket



# AYT RJ45 SERIES

## Dedicated signal connector

### Product Introduction

The dedicated AYT-RJ45 for electrical signals provides a solution for signal transmission in harsh environments. These connectors are particularly suitable for applications in Ethernet networks in audio, commercial, entertainment, live stage equipment, DMX lighting, industrial, and outdoor network connection environments. The AYT-RJ45 series offers cable sheaths, assembled female plugs, straight-through plugs, cable couplers, and protective styles, with IP44/IP65 protection levels providing the strongest protection for installation enclosures.

The AYT series is a dedicated signal connector for industrial use. The metal version utilizes a zinc alloy housing, offering high strength, while the plastic version utilizes an engineering plastic housing, providing lightweight construction. The product boasts excellent and stable electrical performance, making it suitable for connecting devices installed both in front of and behind panels, as well as for system connections outside the equipment. It is easy to operate, safe, and stable.



The pictures are for reference only

## Series product information

Application type	Signal type: Rj45
Material type	Plastic type, metal type, plastic + metal type

## Main material, process and surface treatment

Shell	Material	Production process	Surface treatment
	Engineering plastics/metals	Injection molding & die casting & machining	Chrome plating

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a resealable bag, with a small packing box inside the larger packing box. The small packing box is labeled with the product name, model, batch number, and quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

# AYT-RJ45 Model


## Dedicated signal connector

### AYT-RJ45 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Signal: RJ45	125V	1.5A	Applicable wire diameters Φ5.0~6.8mm

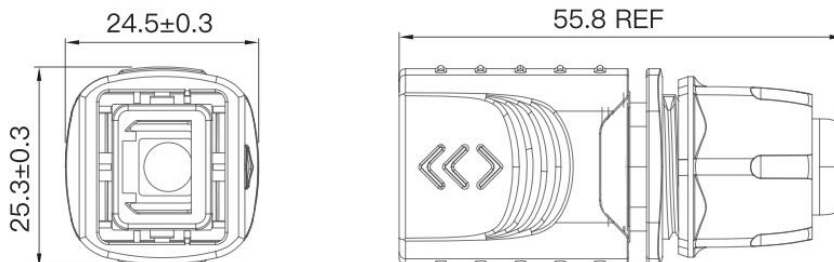
Note: optional shielded connectors are available

### Parameter Information

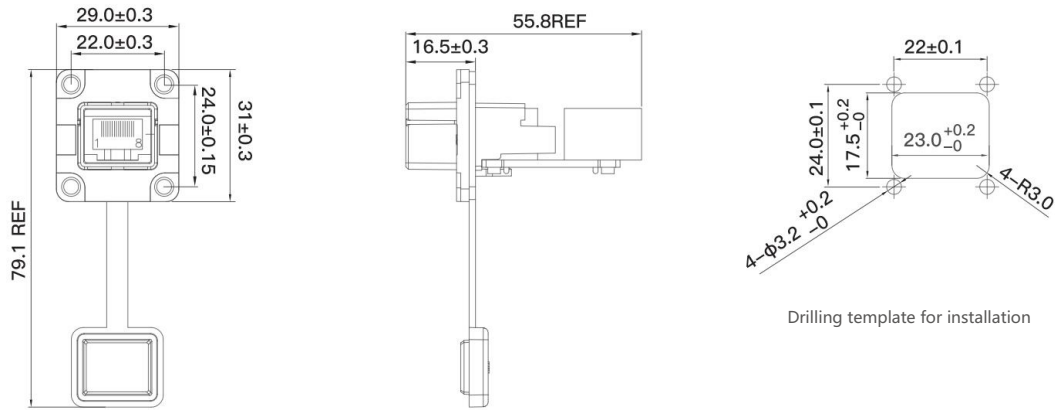
	Product Series	AYT-RJ45		
		Application Type	RJ45	-
AYTRJ45 Signal	Terminal Arrangement		-	-
	Rated current(A)	1.5	-	-
	Rated voltage(V)	125	-	-
	Applicable wire diameters (mm)	Φ5.0~6.8mm	-	-
	Wiring specification	-	-	-
	Protection level	IP44/IP65/IP67(Connection status )	-	-
	Wiring type	CAT.3~CAT.6A	-	-

### Product appearance and dimension drawing

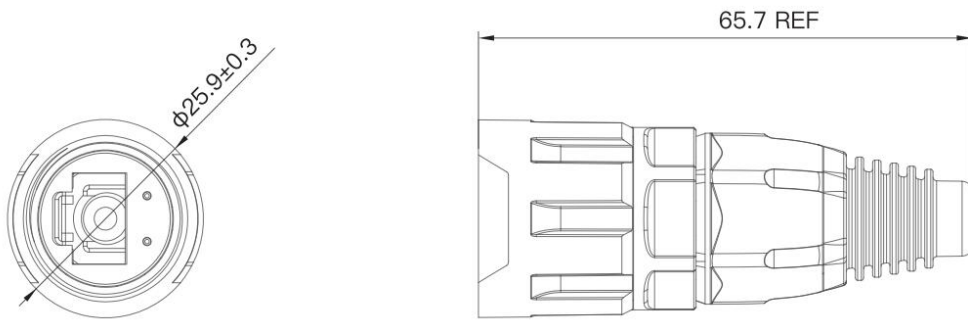
Square plug AYT-RJ45-CPE-03-001



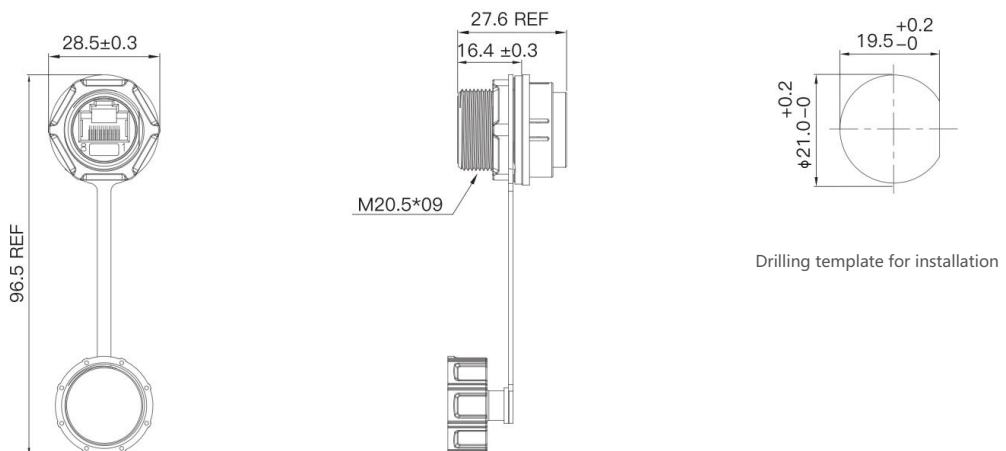
Four-hole flange socket AYT-RJ45-JSX-10-001



Plastic round plug AYT-RJ45-CPE-29-001



Single-hole straight socket AYT-RJ45-JSX-29-004



# AYF SERIES

## Dedicated power connector

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### Product Introduction

The AYF-24 series power waterproof connectors, which comply with international standards, feature a unique insertion and locking mechanism for ease of operation, safety, and stability. The use of colors to distinguish between power input and output effectively separates the input and output terminals, and when paired with power couplers, they can be used in external mobile connections, increasing the flexibility of equipment use. The modular internal construction design, coupled with an integrated plastic shell, provides safe and stable connection and transmission performance, ensuring the electrical stability of the equipment during use.

The product type includes a 3-pin power supply. It features a plastic casing, is lightweight, tough, and highly corrosion-resistant. It adopts a dedicated 3-pin locking design, making it easy to operate, safe, and stable.

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The pictures are for reference only

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## Series product information

Series code	AYF-24
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Multi-PIN types (3-pin) The power supply can operate at a voltage of up to 500V and a rated current of 20A. Optional input/output terminal connectors are available.
Material type	Plastic type

## Main material, process and surface treatment

	Material	Production process	
Shell			-
	Engineering plastic	Injection molding	-

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & Stamping	Nickel-based gold
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a self-sealing bag, with small packaging boxes inside the larger packaging box. The small packaging boxes are labeled with product name, model, batch number, and product quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , a relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

# AYF-24 Model


## Dedicated power connector

### AYF-24 Overview of series information

Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 3 PIN	500V	20A	Applicable wire diameters Φ5.0~6.8mm、Φ6.8~11.0mm

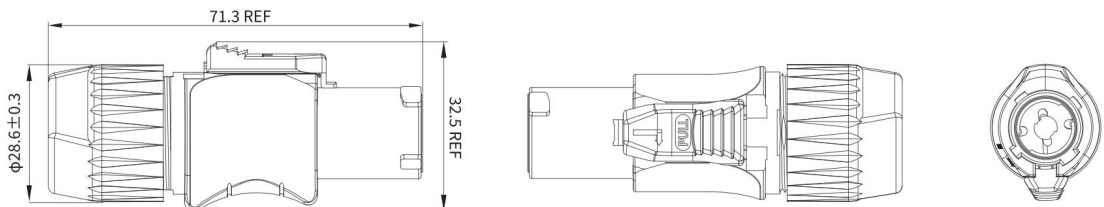
Note: Input/output terminal connectors are optional

### Parameter Information

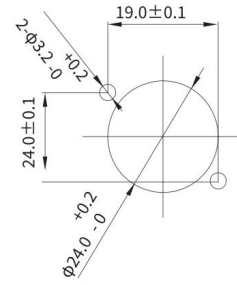
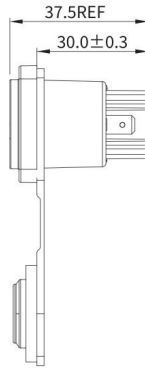
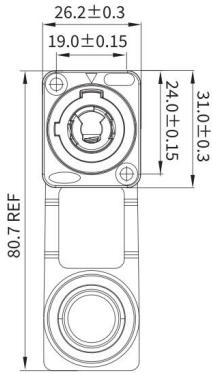
	Product Series	AYF-24		
	AYF 24 Power/Signal	Terminal Arrangement		-
	Rated current(A)	20	-	-
	Rated voltage(V)	500	-	-
	Applicable wire diameters (mm)	Φ5.0~6.8mm, Φ6.8~11.0mm (Optional)	-	-
	Wiring specification	2.5~4.0mm <sup>2</sup> / 14~12AWG	-	-
	Protection level	IP44/IP65	-	-
	Wiring type	-	-	-

### Product appearance and dimension drawing

#### Plug

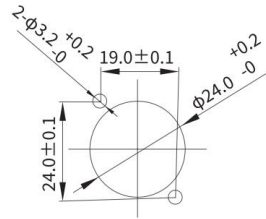
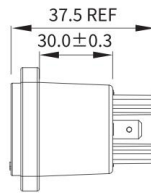
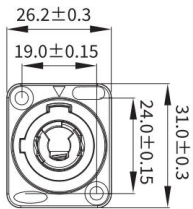


IP65 socket



Drilling template for installation

IP44 socket



Drilling template for installation

# ADL SERIES

## Plastic circular waterproof aviation plug

### Product Introduction

The ADL series, featuring multi-application, high current, and compact size, along with the large size of M28, meets users' transmission needs for high current and high power. It adopts a screw bayonet connection and incorporates a new anti-backlash outer ring structure, providing a "double safety" connection that is more secure and resistant to loosening.

Plastic shell, lightweight, high current and high power, with an added copper core in the inner module to prevent accidental contact with the contacts, thus avoiding the risk of accidental electric shock and ensuring safer use.



The pictures are for reference only

## Series product information

Series code	ADL-28
Aperture size	Please refer to the appearance dimension diagram for detailed hole dimensions
Application type	Power Type (2,3,4,5-PIN)
Material type	Plastic type

## Main material, process and surface treatment

	Material	Production process	
Shell	Engineering plastic	Injection molding	-
			-

## Module materials, processes, and surface treatments

	Material	Production process	Surface treatment
Contact piece	Male/Female Needle (Copper Alloy)	Machining & stamping	Nickel-based gold
Insulator	Engineering plastic	Injection molding	-

## Packaging and storage

The product is packaged in a self-sealing bag, with small packaging boxes inside the larger packaging box. The small packaging boxes are labeled with product name, model, batch number, and product quantity. It is recommended that the packaged product be stored in a warehouse with an ambient temperature of  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ , a relative humidity of  $\leq 72\%$ , and no acidic, alkaline, or other corrosive gases in the surrounding air. Other storage environments may affect the product's service life.

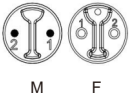
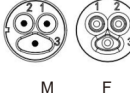
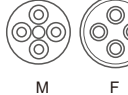
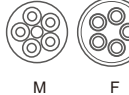
# ADL-28 Model

## Plastic circular waterproof aviation plug

### ADL-28 Overview of series information

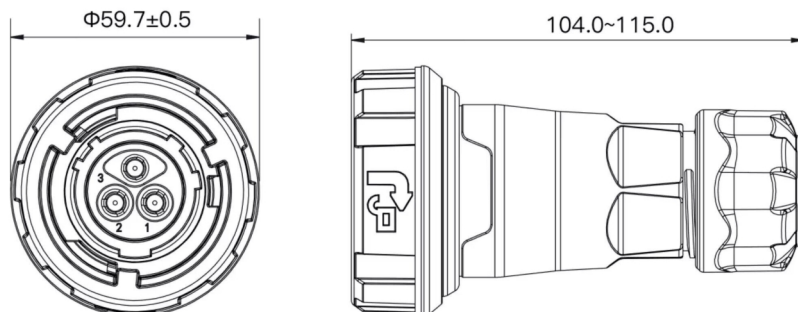
Product application type	Rated voltage	Rated current	Multi-PIN type
Power supply: 2/3/4/5 PIN	500V (2, 3 PIN) 690V((2, 3 PIN)	50A	Φ12.5~15.0mm/Φ15.0~17.5mm/ Φ17.5~20.5mm(2 PIN)/ Φ17.5~20.5mm(3/4/5 PIN)

### Parameter Information

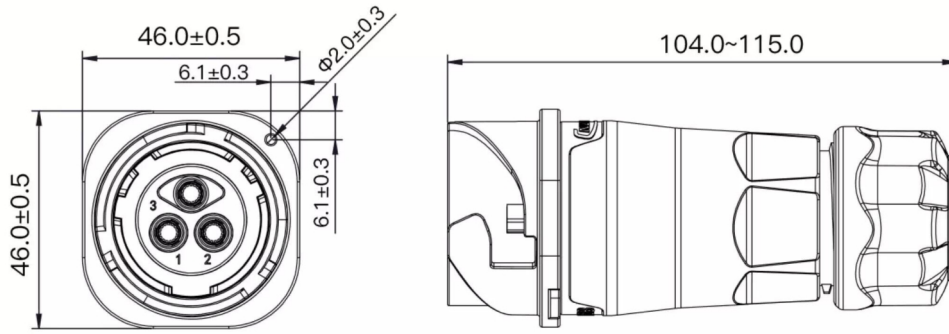
	Product Series	ADL-28			
	PIN	2 PIN	3 PIN	4 PIN	5 PIN
ADL28 Power/Signal	Terminal Arrangement	 M F	 M F	 M F	 M F
	Rated current(A)	50	50	50	50
	Rated voltage(V)	500	500	690	690
	Applicable wire diameters (mm)	Φ12.5~15.0mm, Φ15.0~17.5mm, Φ17.5~20.5mm (Optional)			
	Wiring specification	10.0~16.0mm <sup>2</sup> / 8~6AWG		10.0mm <sup>2</sup> / 8AWG	
	Protection level	Connection status IP68			
	Wiring type	Thread sewing	Thread sewing	Stitch, crimp and weld	Plug lock wire, socket and docking crimp

### Product appearance and dimension drawing

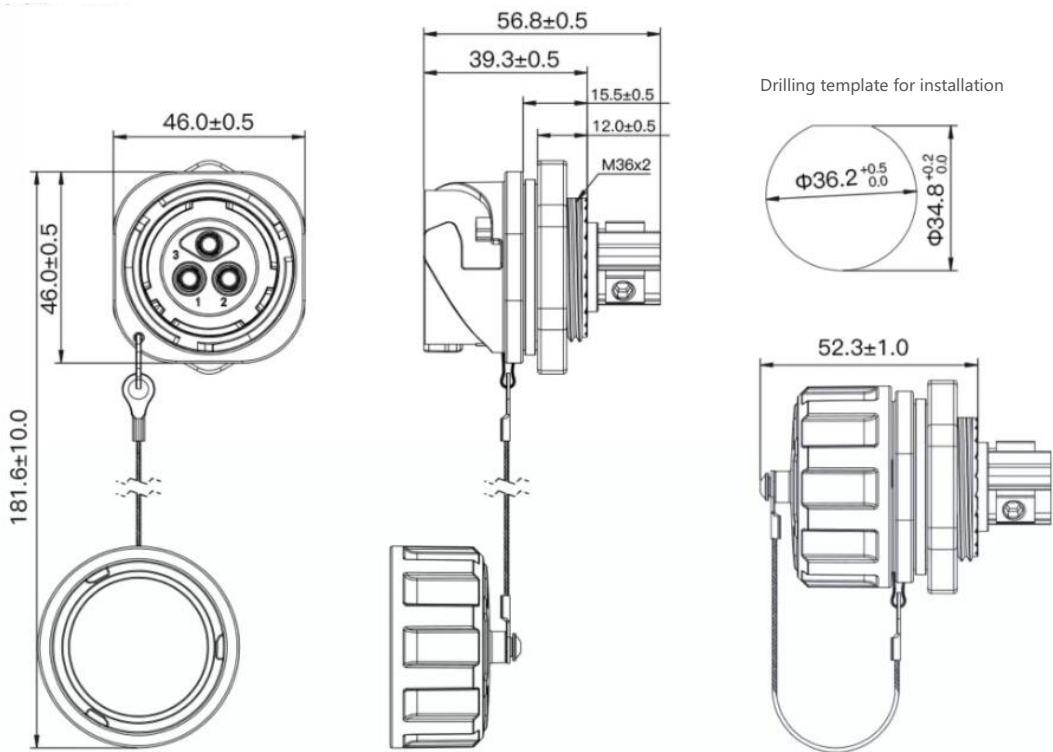
Plug



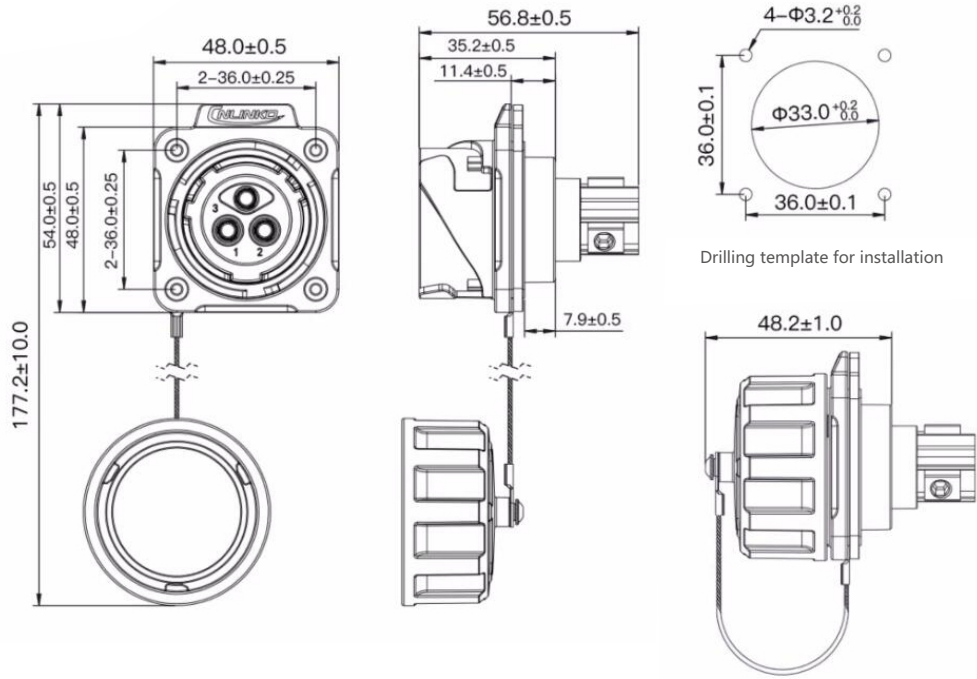
Socket



Single-hole straight socket



Four-hole flange socket





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