

BD SERIES

BD quick disconnect
Waterproof connector

BD waterproof connector application type

CNLINKO's new BD (M20、M24 type) series of waterproof connectors adopts a streamlined dynamic design, one-button device end pressing and quick plugging, to prevent improper manual operation and cause the button fails on the user side, which effectively increases its service life.

Series product information:

Series code:	BD- 20 、 BD- 24
Hole size:	Please refer to the external dimension drawing for detailed hole size.
Application types:	Multiple Pins (2,3,4,5,6,7,8,9,10,12,14,19, 24 pins and customized 3+2, 2+6 pins, etc.) Signal (RJ45, optical fiber) Data (USB2.0, USB3.0, HDMI)
Material type:	Plastic type, metal type

Introduction:

Product types include eight categories,and there are power, multi-core, hybrid, USB2.0, USB3.0, HDMI, RJ45, optical fiber. The metal type uses a zinc alloy shell with high strength;and the plastic type uses engineering plastic shell and is light in weight. The product adopts snap lock, which can be operated with one hand, and easy to operate, safe and reliable.

Main body material, process and surface treatment:

Shell:	Material: Engineering Plastic/Metal	Surface treatment: Chrome plating
	Production Process: Injection Molding & Die Casting & Machining Surface	

Module material, process and surface treatment:

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

Packaging and Storage:

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

Check the official website BD series area:

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



QR code of BD series

Applications



BD-24 series are used in a mechanical equipment control box

Features Overview



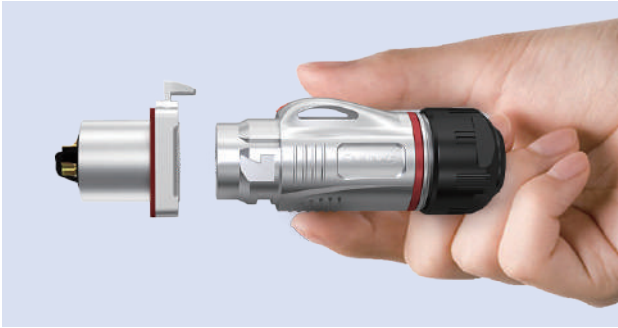
Won the German Red Dot Design Award

The BD series won the German Red Dot Design Award. It is a perfect combination of artistic beauty and industrial products, which once again interprets the excellent innovative design concept of CNLINKO.



Built-in design

The connector socket is embedded into the device, reducing the distance between the installation panel and the exposed product, saving external space.



Push-in snap design

The in-line snap design can realize one-hand in-line insertion, quick connection, convenient and efficient.



High protection level

The highest protection level can reach waterproof IP68 when connected , which can adapt to various harsh working conditions.

Type and Style



Two types are available

Plastic and metal types are optional, which can meet the differentiated demands of users for high corrosion resistance, vibration resistance and impact resistance, and high strength.



Flexible installation methods

The BD series has four-hole flanged panel mount sockets and two-hole flanged panel mount sockets for optional . Users can choose them according to actual application scenarios.



A variety of wiring methods

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

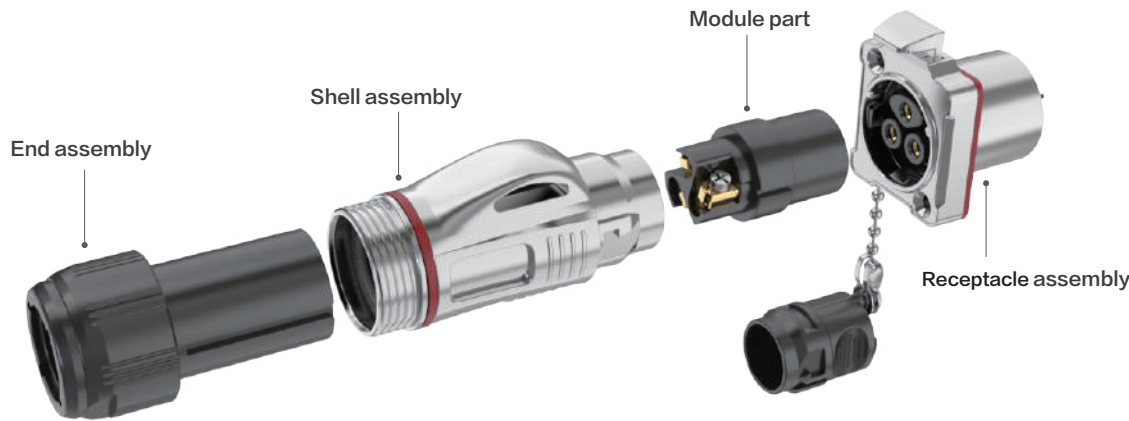


Multi-scene application

The BD series supports various applications such as power supply, data, signal, etc., and the application requirements of various symbols.

Product Structure Image

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



Series Infographic



BD-20 Series Information Overview

P69

Product application type:	Power: 2/3/4 pin	
	Signal: 5/7/9/12/14 pin	
	The current is connected with the operating voltage: 500V（2~5、7pins）, 250V（8-pins hybrid、9、12、14pins） The rated current: 20A（2~4pins）, 10A（5、7pins）,20A+5A（8-pins hybrid）, 5A（9、12、14pins）	
Cable O.D:	Multi-pin type: Φ10.0~12.2mm,Φ10.0~12.0mm, Φ7.0~8.5mm, Φ5.0~6.5mm	
Details page:	Product Parameter Map: P69	Dimension Drawing: P71

BD-24 Series Information Overview

P73

Product application type:	Power: 2/3/4 pin		Signal: 10/12/19/24PIN、RJ45、Optical fiber	
	Data: USB, HDMI			
	The current is connected with the operating voltage: 500V (10、12pins) , 300V (2~4pins) , 250V (19、24pins)			
	The rated current: 45A(3pins)、35A(2、3pins)、25A(2~4pins), 10A(10、12pins), 5A(19、24pins)			
Cable O.D:	Multi-pin type: Φ10.5~14.0mm、Φ7.5~10.5mm, Φ5.0~7.0mm, Φ4.5~6.0mm			
	Data type: Φ5.0~Φ7.0mm (USB、HDMI)			
	Signal type: Φ5.0~Φ7.0mm (RJ45) , Φ4.5~Φ6.0mm (Optical fiber)			
Details page:	Product Parameter Map: P73		Dimension Drawing: P75	

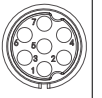
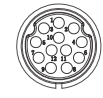
Main feature:

- Multi-purpose applicable design (power, data, signal) to meet diverse application needs;
- With strong applicability and complete electromagnetic and radio frequency interference protection;
- Unique integrated streamlined design;
- Gold-plated contacts, high corrosion resistance and electrical conductivity;
- The product meets waterproof IP67 protection level in the connected state.



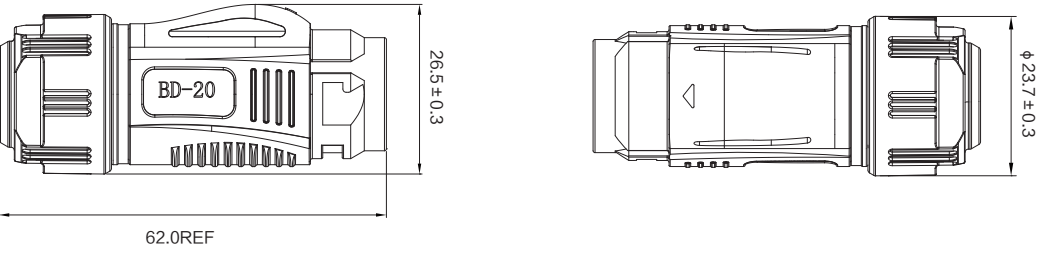
BD-20 Datasheet

BD-20

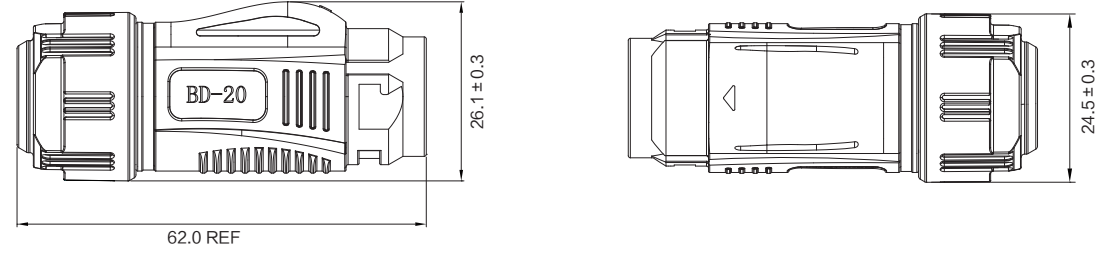
M20 Power/Signal	Product Series		BD-20																				
	Pin Number		2PIN		3PIN		4PIN		5PIN		7PIN		8PIN		9PIN		12PIN		14PIN		—		
	Application Type Section		 Male	 Female	 Male	 Female	 Male	 Female	 Male	 Female	 Male		 Female	 Male	 Female	 Male	 Female	 Male	 Female	 Male	 Female	—	
	Current Rating		20A						10A		10A		20A+5A		5A						—		
	Voltage Rating		AC 500V								AC 500V		AC 250V		AC 250V						—		
	Cable O.D Range		≤ ϕ 12.0mm										≤ ϕ 12.0mm										—
	Wire Size		2.5mm²/12AWG						1.5mm²/16AWG		1.5mm²/16AWG		2.5mm²/12AWG 0.5mm²/20AWG		0.5mm²/20AWG						—		
	Protection Level		Standard is IP65, IP67&IP68 Option Avaliable										Standard is IP65, IP67&IP68 Option Avaliable										
	Assembly Method		Soldering/Screwing						Soldering														
	Illustration	Material	Part No																				
Metal plug	Metal	Male	BD-20-C02PE-03-001A	BD-20-C03PE-03-001A	BD-20-C04PE-03-001A	BD-20-C05PE-03-001A	BD-20-C07PE-03-001A		BD-20-C08PE-03-001A	BD-20-C09PE-03-001A	BD-20-C12PE-03-001A	BD-20-C14PE-03-001A	—										
		Female	BD-20-J02PE-03-001A	BD-20-J03PE-03-001A	BD-20-J04PE-03-001A	BD-20-J05PE-03-001A	BD-20-J07PE-03-001A		BD-20-J08PE-03-001A	BD-20-J09PE-03-001A	BD-20-J12PE-03-001A	BD-20-J14PE-03-001A	—										
Metal receptacle		Male	BD-20-C02PE-03-401A	BD-20-C03PE-03-401A	BD-20-C04PE-03-401A	BD-20-C05PE-03-401A	BD-20-C07PE-03-401A		BD-20-C08PE-03-401A	BD-20-C09PE-03-401A	BD-20-C12PE-03-401A	BD-20-C14PE-03-401A	—										
		Female	BD-20-J02PE-03-401A	BD-20-J03PE-03-401A	BD-20-J04PE-03-401A	BD-20-J05PE-03-401A	BD-20-J07PE-03-401A		BD-20-J08PE-03-401A	BD-20-J09PE-03-401A	BD-20-J12PE-03-401A	BD-20-J14PE-03-401A	—										
Plastic plug	Plastic	Male	BD-20-C02PE-02-001A	BD-20-C03PE-02-001A	BD-20-C04PE-02-001A	BD-20-C05PE-02-001A	BD-20-C07PE-02-001A		BD-20-C08PE-02-001A	BD-20-C09PE-02-001A	BD-20-C12PE-02-001A	BD-20-C14PE-02-001A	—										
		Female	BD-20-J02PE-02-001A	BD-20-J03PE-02-001A	BD-20-J04PE-02-001A	BD-20-J05PE-02-001A	BD-20-J07PE-02-001A		BD-20-J08PE-02-001A	BD-20-J09PE-02-001A	BD-20-J12PE-02-001A	BD-20-J14PE-02-001A	—										
Plastic receptacle		Male	BD-20-C02PE-02-401A	BD-20-C03PE-02-401A	BD-20-C04PE-02-401A	BD-20-C05PE-02-401A	BD-20-C07PE-02-401A		BD-20-C08PE-02-401A	BD-20-C09PE-02-401A	BD-20-C12PE-02-401A	BD-20-C14PE-02-401A	—										
		Female	BD-20-J02PE-02-401A	BD-20-J03PE-02-401A	BD-20-J04PE-02-401A	BD-20-J05PE-02-401A	BD-20-J07PE-02-401A		BD-20-J08PE-02-401A	BD-20-J09PE-02-401A	BD-20-J12PE-02-401A	BD-20-J14PE-02-401A	—										

 BD-20 Dimension Drawing (unit: mm)

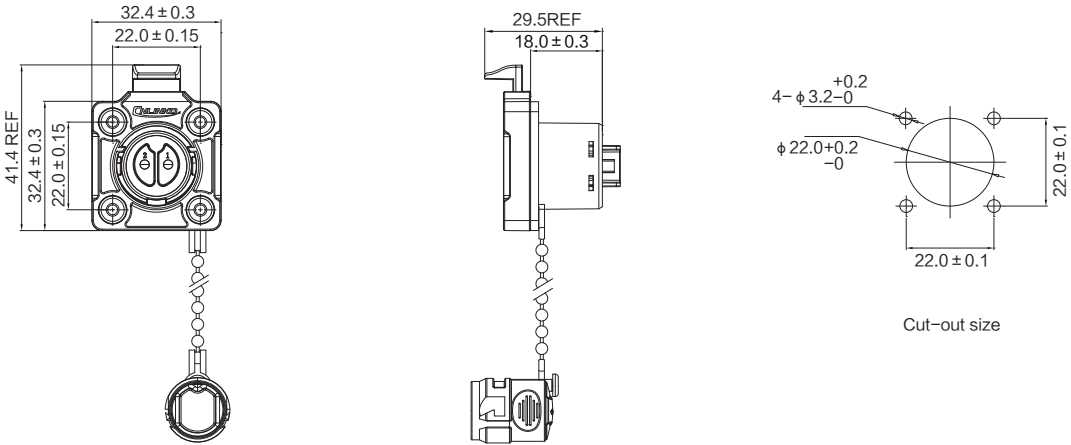
Metal plug



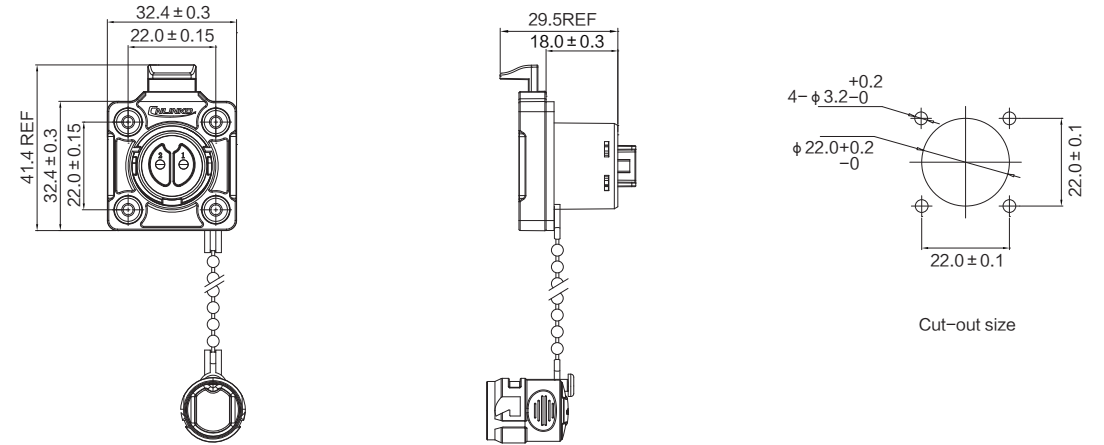
Plastic plug



Metal Four-hole flange receptacle

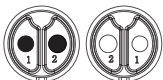
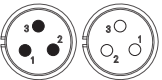
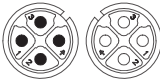
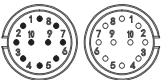
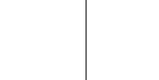


Plastic Four-hole flange receptacle



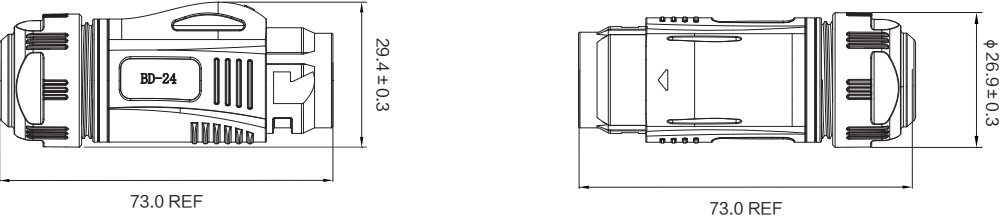
BD-24 Datasheet

BD-24

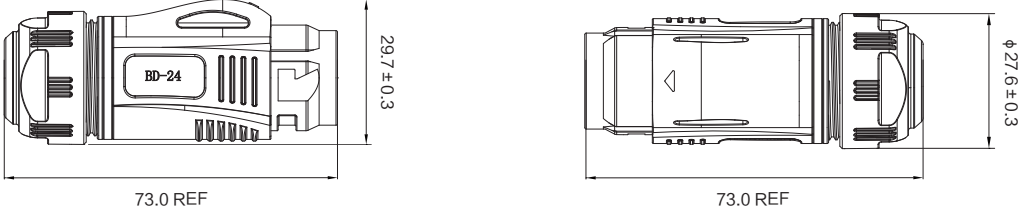
M24 Power/Signal	Product Series		BD-24																		
	Pin Number		2PIN		3PIN		4PIN		10PIN		12PIN		19PIN		24PIN		RJ45	HDMI	USB2.0	USB3.0	Optical fiber
	Application Type Section		 Male Female		 Male Female		 Male Female		 Male Female		 Male Female		 Male Female		 Male Female						
	Current Rating		25A	35A	25A	35A	45A	25A	10A	10A		5A		1.5A	0.5A	500mA	900mA	—			
	Voltage Rating		AC 300V							AC 500V	AC 500V		AC 250V		AC 125V	AC 5V			—		
	Cable O.D Range		≤ ϕ 14.0mm										≤ ϕ 14.0mm				ϕ 5.5~ ϕ 7.0mm				ϕ 4.5~6.0mm
	Wire Size		6.0mm ² /10AWG			8.0mm ² /8AWG Electronic wire		4.0mm ² /8AWG	1.5mm ² /16AWG	1.5mm ² /16AWG		0.5mm ² /20AWG		26AWG		28AWG		—			
	Protection Level		Standard is IP65, IP67&IP68 Option Available														Standard is IP65, IP67&IP68 Option Available				
	Assembly Method		Soldering/Screwing					Soldering													
	Illustration	Material	Part No																		
Metal plug	Metal	Male	BD-24-C02PE-03-035	BD-24-C03PE-03-035	BD-24-C03PE-03-050	BD-24-C04PE-03-001	BD-24-C10PE-03-001A	BD-24-C12PE-03-001A		BD-24-C19PE-03-001A	BD-24-C24PE-03-001A	BD-24-C/RJ45/ 015/PE-43-001A	BD-24-C/HDMI2/ 016/PE-43-001	BD-24-C/USB3/ 016/PE-03-001	BD-24-C/USB3/ 016/PE-03-001	BD-24-C/LC/016/ PE-42-002					
		Female	BD-24-J02PE-03-035	BD-24-J03PE-03-035	BD-24-J03PE-03-050	BD-24-J04PE-03-001	BD-24-J10PE-03-001A	BD-24-J12PE-03-001A		BD-24-J19PE-03-001A	BD-24-J24PE-03-001A	—	—	—	—	BD-24-C/LC/016/ PE-42-002					
Metal receptacle		Male	BD-24-C02SX-03-237	BD-24-C03SX-03-237	BD-24-C03SX-03-257	BD-24-C04SX-03-207	BD-24-C10SX-03-207A	BD-24-C12SX-03-207A		BD-24-C19SX-03-207A	BD-24-C24SX-03-207A	—	—	—	—	BD-24-J/LC/213/ SX-42-202					
		Female	BD-24-J02SX-03-237	BD-24-J03SX-03-237	BD-24-J03SX-03-257	BD-24-J04SX-03-207	BD-24-J10SX-03-207A	BD-24-J12SX-03-207A		BD-24-J19SX-03-207A	BD-24-J24SX-03-207A	BD-24-J/RJ45/ 213/SX-43-202	BD-24-J/HDMI2/ 213/SX-43-201	BD-24-J/USB2/ 213/SX-43-202A	BD-24-J/USB3/ 213/SX-43-202A	BD-24-J/LC/213/ SX-42-202					
Four-hole flange receptacle		Male	BD-24-C02SX-03-437	BD-24-C03SX-03-437	BD-24-C03SX-03-450	BD-24-C04SX-03-407	BD-24-C10SX-03-407A	BD-24-C12SX-03-407A		BD-24-C19SX-03-407A	BD-24-C24SX-03-407A	—	—	—	—	BD-24-C/LC/016/ PE-43-002					
		Female	BD-24-J02SX-03-437	BD-24-J03SX-03-437	BD-24-J03SX-03-450	BD-24-J04SX-03-407	BD-24-J10SX-03-407A	BD-24-J12SX-03-407A		BD-24-J19SX-03-407A	BD-24-J24SX-03-407A	BD-24-J/RJ45/ 213/SX-43-402	BD-24-J/HDMI2/ 213/SX-43-407	BD24-J/USB2/ 213/SX-43-407A	BD-24-J/USB3/ 213/SX-43-407A	BD-24-C/LC/016/ PE-43-002					
Plastic plug	Plastic	Male	BD-24-C02PE-02-035	BD-24-C03PE-02-035	BD-24-C03PE-02-050	BD-24-C04PE-02-001	BD-24-C10PE-02-001A	BD-24-C12PE-02-001A		BD-24-C19PE-02-001A	BD-24-C24PE-02-001A	BD-24-C/RJ45/ 015/PE-42-001A	BD24-HDMI-MP -MP-1M-001	BD-24-C/USB3/ 016/PE-42-001A	BD24-USB3-MP -MP-1M-001	BD-24-J/LC/213/ SX-43-202					
		Female	BD-24-J02PE-02-035	BD-24-J03PE-02-035	BD-24-J03PE-02-050	BD-24-J04PE-02-001	BD-24-J10PE-02-001A	BD-24-J12PE-02-001A		BD-24-J19PE-02-001A	BD-24-J24PE-02-001A	—	—	—	—	BD-24-J/LC/213/ SX-43-202					
Plastic receptacle		Male	BD-24-C02SX-02-237	BD-24-C03SX-02-237	BD-24-C03SX-02-257	BD-24-C04SX-02-207	BD-24-C10SX-02-207A	BD-24-C12SX-02-207A		BD-24-C19SX-02-207A	BD-24-C24SX-02-207A	—	—	—	—	BD-24-J/LC/213/ SX-43-201					
		Female	BD-24-J02SX-02-237	BD-24-J03SX-02-237	BD-24-J03SX-02-257	BD-24-J04SX-02-207	BD-24-J10SX-02-207A	BD-24-J12SX-02-207A		BD-24-J19SX-02-207A	BD-24-J24SX-02-207A	BD-24-J/RJ45/ 213/SX-42-202	BD-24-J/HDMI2/ 213/SX-42-201	BD-24-J/USB2/ 213/SX-42-202A	BD-24-J/USB3/ 213/SX-42-202A	BD-24-J/LC/213/ SX-43-201					

BD-24 Dimension Drawing (unit: mm)

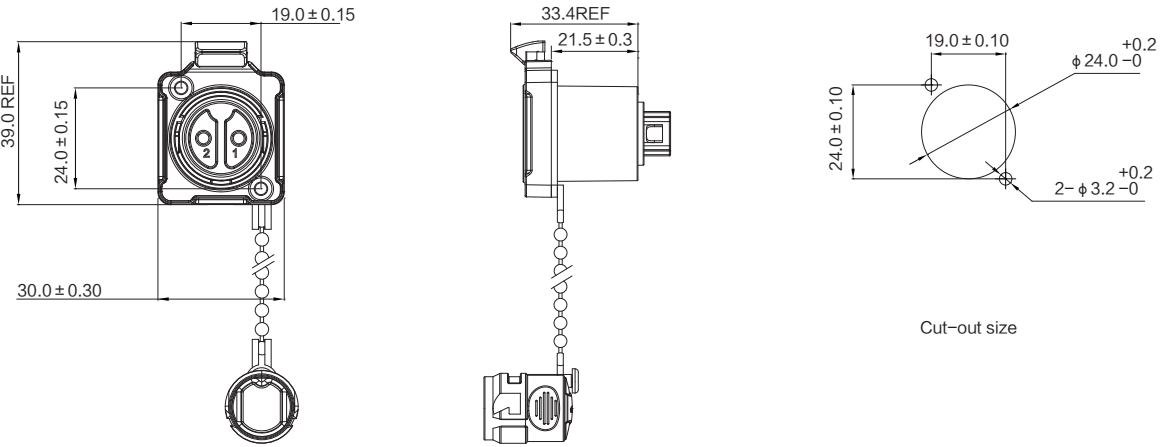
Metal plug



Plastic plug



Two-hole flange receptacle



Four-hole flange receptacle

