



## CX90MW Series

### Waterproof Mid-Mount USB Type-C Receptacle

#### FEATURES:

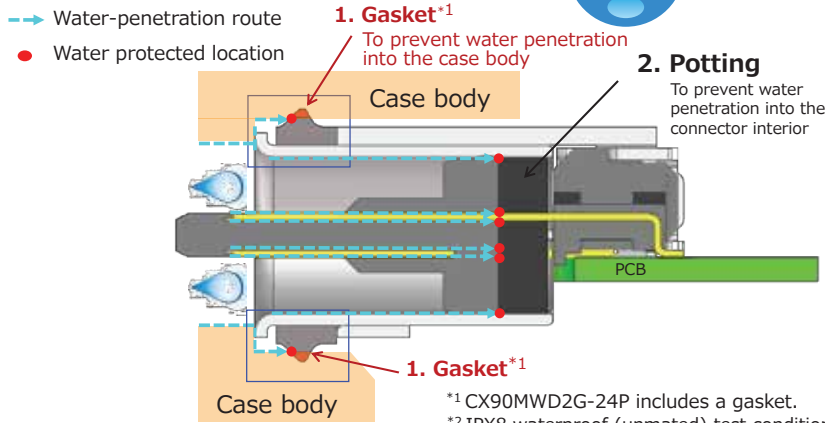
- ▶ Waterproof USB Type-C Receptacle (IPX8\*<sup>1</sup> compliant)
- ▶ Includes front sealing Gasket
- ▶ Robust design with deep drawing shell
- ▶ Reduced product volume by 22%\*<sup>2</sup> compared to competition
- ▶ Improved peeling strength using 6 THR\*<sup>3</sup> mounting posts
- ▶ USB 3.2 Gen1 (5Gbps), high speed transmission

\*1 IPX8 waterproof (unmated) test conditions : Immersed in 1.5 meter water depth.

\*2 Product volume comparison between CX90MWD2-24P and Competitor Product.

\*3 THR, also known as PIP (Pin-in-Paste) process is, a method of soldering lead parts using surface mount (SMT) process and enhances manufacturing efficiency.

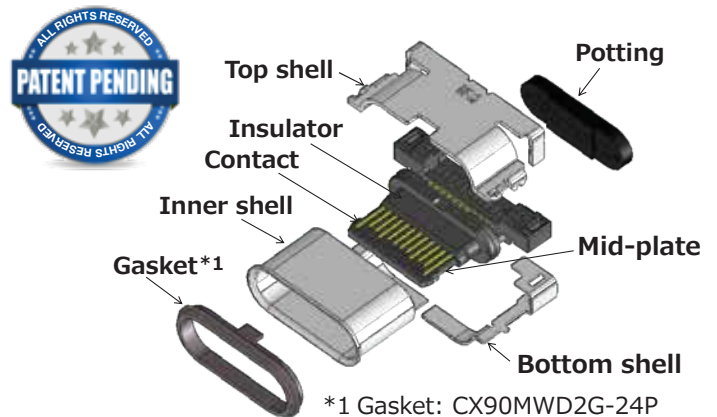
### Waterproof Design



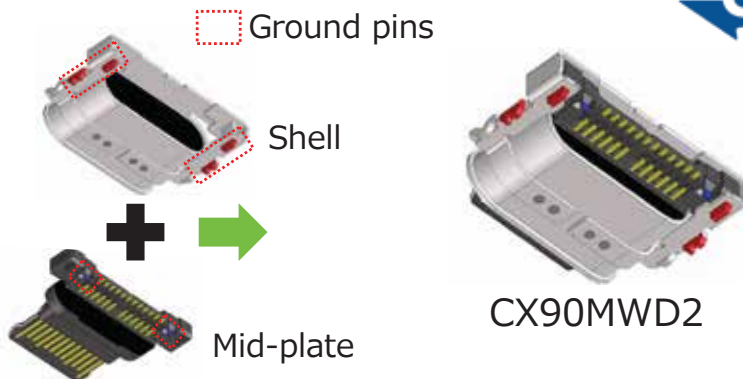
\*1 CX90MWD2G-24P includes a gasket.

\*2 IPX8 waterproof (unmated) test condition : Immersed in 1.5meter of water for 30 minutes

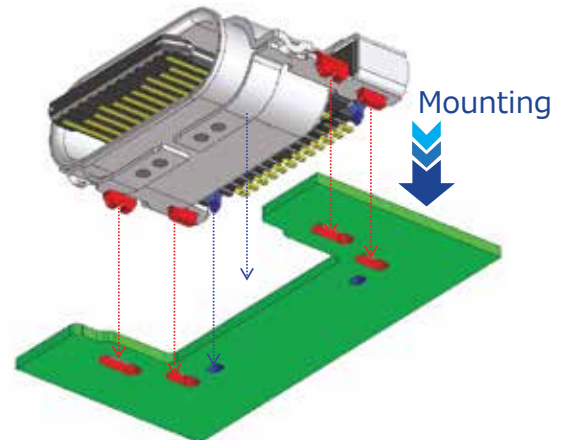
### Components



### Improved Peeling Strength



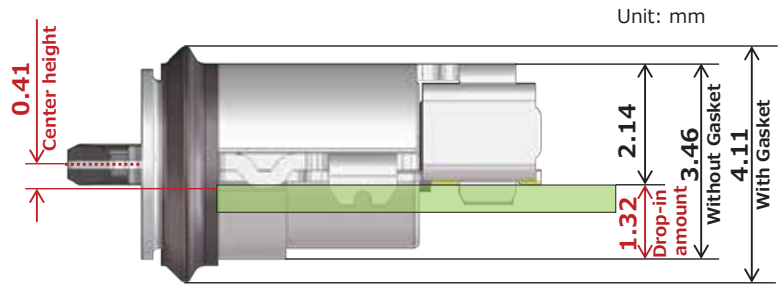
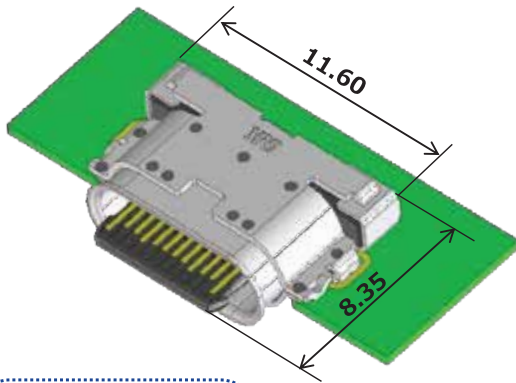
#### ■ Mounted on the PCB



Improved peeling strength using 6 THR\* mounting posts

\*THR is also known as PIP(Pin-in-Paste) process, a method to solder components with through hole leads using surface mount (SMT) assembly process steps, enhances manufacturing efficiency.

## Dimensions



Reduced product volume by 22% compared to competitor



	Width	Depth	Height		Mounting Area	Product Volume
			Without Gasket	With Gasket		
CX90MWD2-24P	11.60mm	8.35mm	3.46mm	-	96.86mm <sup>2</sup>	335.14mm <sup>3</sup>
CX90MWD2G-24P*1			-	4.11mm		344.37mm <sup>3</sup>
Competitor	12.00mm	8.34mm	3.70mm	4.30mm	100.08mm <sup>2</sup>	430.34mm <sup>3</sup>

## Specifications

### MATERIAL AND FINISH

Component	Material	Finish, Remarks
Insulator	Thermal Plastic*	Black
Mid-plate	Stainless Steel	Ni plating
Contact	Copper Alloy	Contact: Au plating over Pd-Ni plating over Ni plating Lead: Au plating over Ni plating
Inner shell	Stainless Steel	Degreasing
Top shell	Stainless Steel	Ni plating
Bottom shell	Stainless Steel	Ni plating
Potting	Silicone	Black
Gasket	Silicone	Gray

\* NOTE : This product satisfies halogen free requirements defined as 900ppm maximum chlorine, 900ppm maximum bromine, and 1500ppm maximum total of chlorine and bromine.

### PERFORMANCE CHARACTERISTICS

Rated Current	1.25A DC Max. for each power pin (A1, A4, A9, A12, B1, B4, B9, B12) 0.25A DC for the other pins
Rated Voltage	20V AC
Operating Temperature	-40°C to +85°C
Contact Resistance	40mΩ Max.
Withstanding Voltage	100V AC for 1min.
Insulation Resistance	100MΩ Min. (500V DC)
Mating Durability	10,000 times

- No. of pos.: 24pos.

- RoHS compliant



For additional information please go to  
<https://www.hirose.com/product/series/CX>

Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

