



**Waterproof IPX8 Standard**

## CX90MW6-16P Series

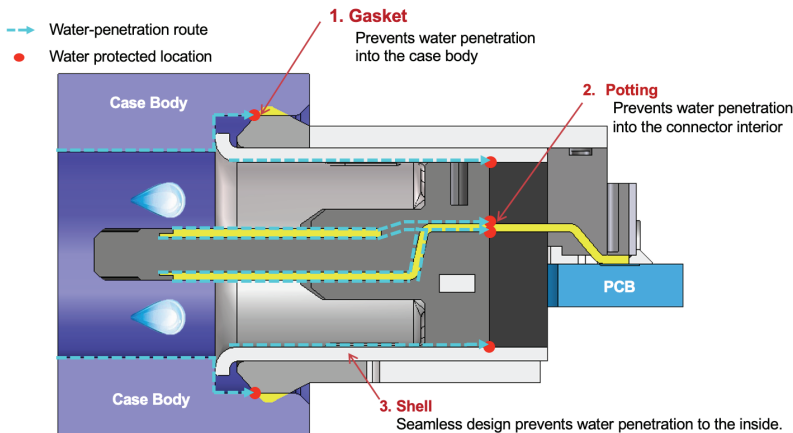
Waterproof Mid-Mount USB Type-C Receptacle

### FEATURES:

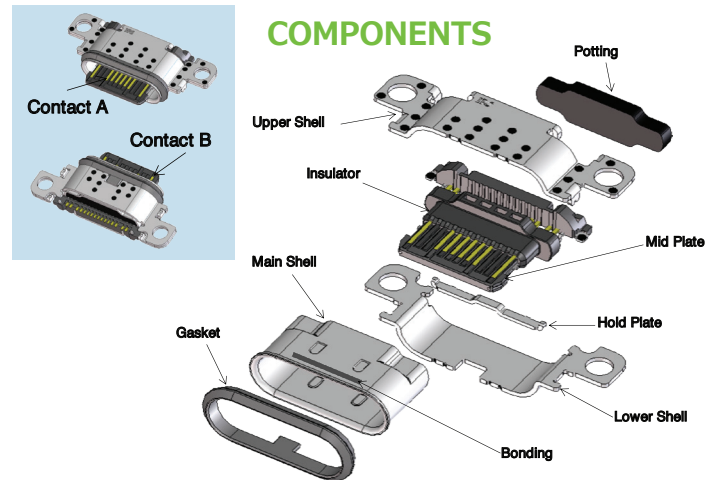
1. Waterproof USB Type-C Receptacle (IPX8\*)
2. 6A current rating for quick charging
3. Improved Peeling Strength
4. 480Mbps / USB2.0
5. Robust, mid-mount design
  - Deep drawing shell
  - Screw mount design improves peeling strength
  - Plug stopper and welding between the shell and components enhance prying force

\*IPX8 waterproof (unmated) test conditions:  
 Immersed in 1.5 meter water depth for 30 minutes.

## 1. Waterproof USB Type-C Receptacle (IPX8\*) - with gasket



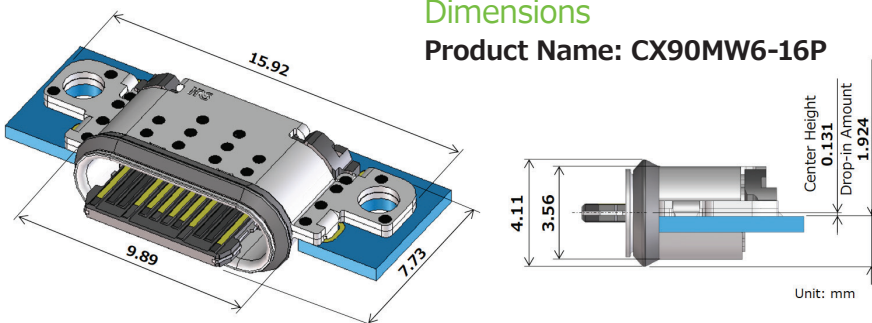
\*IPX8 waterproof (unmated) test conditions : Immersed in 1.5 meter water depth for 30 minutes.



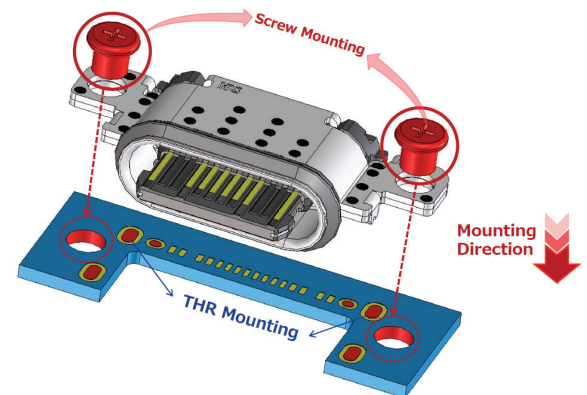
## 2. 6A current rating for quick charging

### Dimensions

Product Name: CX90MW6-16P



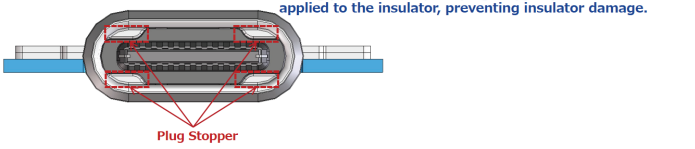
## 3. Improved Peeling Strength



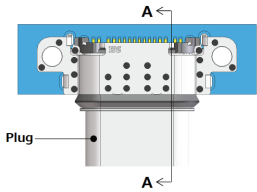
\*THR, also known as PIP (Pin-in-Paste) process, is a method of soldering lead parts using surface mount (SMT) process and enhances mounting efficiency.

## 4. Robust, mid-mount design

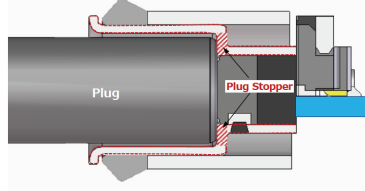
### Mating Face



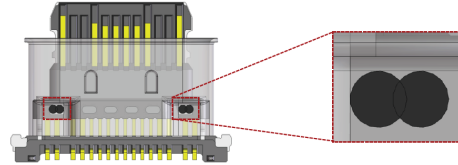
### Top View (Mated)



### A-A Cross-sectional View

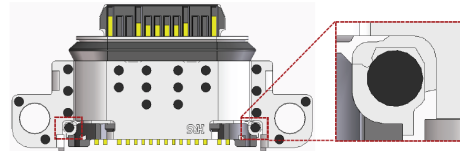


### 1. Assembly State 1: Insulator and Upper Shell



**Welding Point 1**  
Firmly secured due to welding between the upper shell and insulator.

### 2. Assembly of 1 (Above) with the Lower Shell



**Welding Point 2**  
Firmly secured due to welding between the upper and lower shells.

## Specifications

### MATERIAL AND FINISH

Component	Material	Finish, Remarks
Insulator	Thermoplastic*	Black / UL94V-0
Contact A	Copper Alloy	Gold Plated (Nickel Underplated)
Contact B	Copper Alloy	Gold Plated (Nickel Underplated)
Mid Plate	Stainless Steel	Nickel Plated
Upper Shell/Lower Shell	Stainless Steel	Nickel Plated
Main Shell	Stainless Steel	Washed
Gasket	Silicone	Gray
Potting	Silicone	Black

\*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	1.50A Max. for each power pin (i.e. A1, A4, A9, A12, B1, B4, B9, B12) 1.25A Max. for VCON (i.e. B5), 0.25A for the other pins
Rated Voltage	20V AC/DC
Operating Temperature	-40 to +105°C
Contact Resistance	40mΩ Max.
Withstanding Voltage	100V AC for 1 min.
Insulation Resistance	100MΩ Min. (500V DC)
Mating Durability	10,000 times

- RoHS compliant



For additional information please go to  
<https://www.hirose.com/en/product/series/CX>  
 Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

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