



High Current Capacity & 14 AWG Compatibility with Compact Size

## BH12 Series

20A Current, Compact, Waterproof, Signal and Power Hybrid Connector

### FEATURES:

- High current capacity and 14 AWG compatibility with compact size Power 20Ax2pos., Signal 1A
- Both front and rear mount types available
- IPX6/IPX7 Waterproof
- Easy cable assembly
- Design prevents damage to lock
- Light weight

### Small Size and Light Weight

### Waterproof Design IPX6/IPX7

#### Suitable for Outdoor Applications

#### IPX6 Waterproof Conditions:

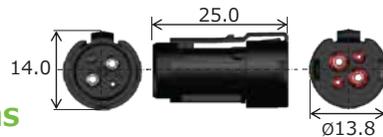
Water projected at all angles and a flow rate of 100L per min at a 100kPa pressure from a distance of 3m

#### IPX7 Waterproof Conditions:

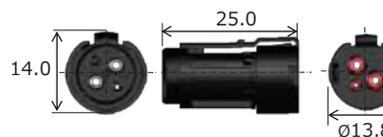
No water intrusion while submerged at a depth of 1m for .5 hours.

#### Plug

**BH12WP-4SC (4pos.)**

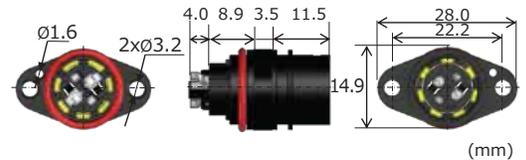


**BH12WP-3SC (3pos.)\***

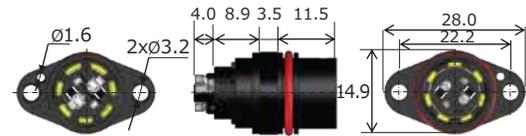


#### Receptacle

**BH12WR-4P (Front Mount Type)**



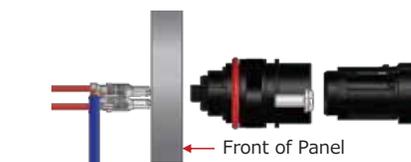
**BH12WRA-4P (Rear Mount Type)**



\*The 3pos. plug mates with the 4pos. receptacle.

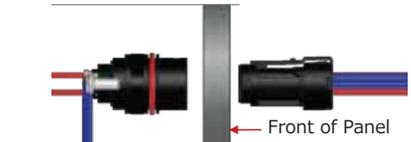
### Both Front & Rear Mount Types Available

#### Front Mount Type



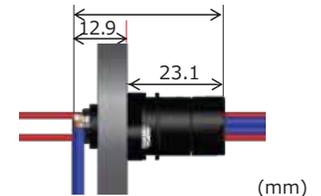
Attach Receptacle from the Front of the Panel

#### Rear Mount Type



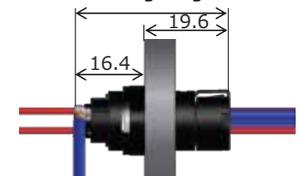
Attach Receptacle from the Back of the Panel

Total Mounting Length: 36.0



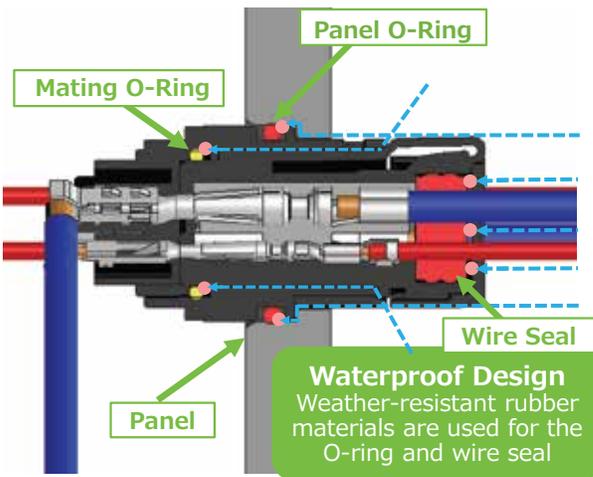
Effective When Space Inside the Panel is Limited

Total Mounting Length: 36.0



Can attach pre-assembled cable assemblies to the panel. Additionally, there is no risk of workers removing the screws since they are not visible from the exterior

Recommended Panel Thickness: 6-7.5mm



-- Water Penetration Route  
 ● Waterproof Location

**Waterproof Design**  
 Weather-resistant rubber materials are used for the O-ring and wire seal



## Rugged Lock Design

### LOCK SUPPORTS BOTH ENDS

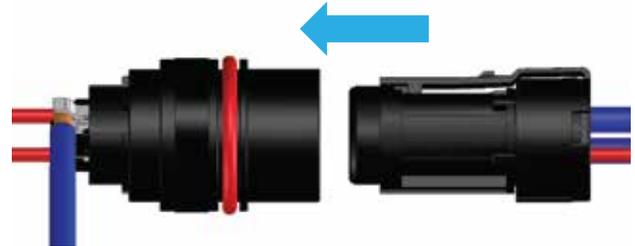
Prevents cable entanglement, lock deformation and damage during assembly and transportation



**DAMAGE PREVENTION & SECURE CONNECTION**

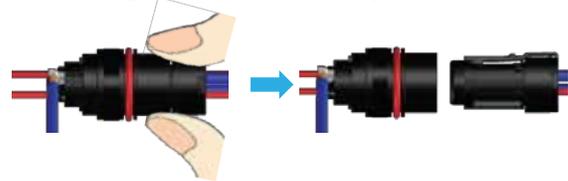
### ONE STEP MATING

Simple operation:  
Push straight to complete mating



#### Lock Release

Pull straight out while pressing on the lock spring



## Specifications

### MATERIAL AND FINISH

Component	Material	Finish, Remarks
Housing	PBT	UL94V-0
O-ring, Wire Seal	Silicone Rubber	-
Contact	Copper Alloy	Tin Plating

### PERFORMANCE CHARACTERISTICS

Rated Current	Power Contact : 20A Signal Contact : 1A
Rated Voltage	Power Contact : 30V AC, 42V DC Signal Contact : 30V AC, 42V DC
Operating Temperature	-40 to +105°C
Contact Resistance	Power Contact : 10mΩ Max. Signal Contact : 15mΩ Max.
Withstanding Voltage	600V AC for 2 min.
Insulation Resistance	1000MΩ Min. (500V DC)
Mating Durability	30 times
Waterproof	IPX6/IPX7

-RoHS Compliant



For additional information please go to  
<https://www.hirose.com/product/series/BH12>  
 Specifications herein are subject to change without notice.  
 Contact Hirose for latest specifications, drawings, or availabilities.

STAY CONNECTED

