

# EV2 Series

## Waterproof Shielded Connector Supporting 200A

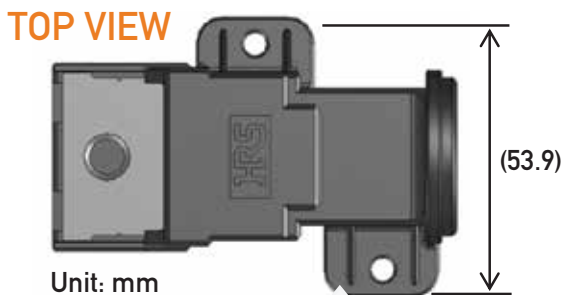
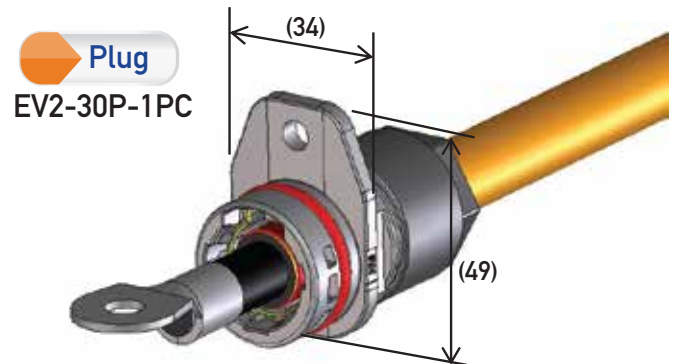
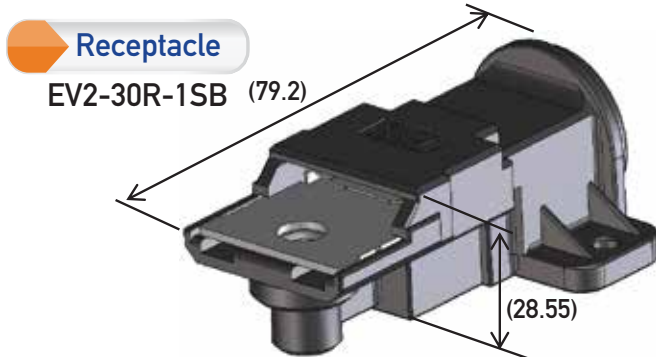


### Features:

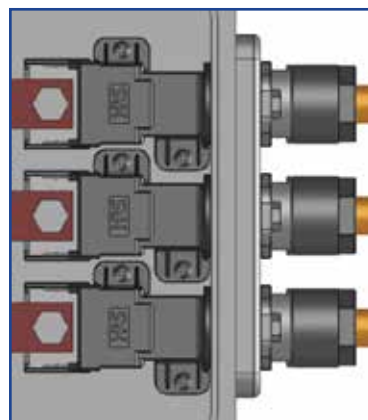
- ▶ High current connector capable up to 200A
- ▶ Easy connection with commercially available cable lugs
- ▶ Original spring connection design creates high contact reliability
- ▶ Contact spring and screw lock enhance vibration resistance
- ▶ Waterproof [IP68\*/IPX9K]
- ▶ Shielded for EMI protection
- ▶ Staggered base flange allows close spacing
- ▶ RoHS compliant

\*Test conditions: No water intrusion, while submerged in 2 meter water depth for 14 days.

### Space Saving Mounting Design

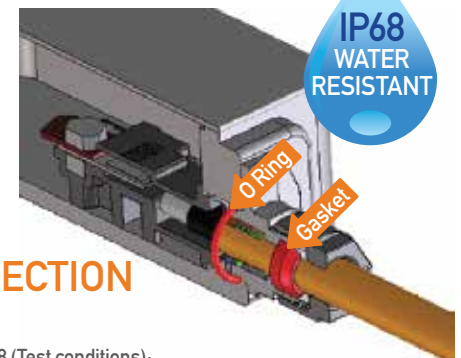


Unit: mm  
**STAGGERED FLANGE  
DESIGN SAVES SPACE!!**



Multiple Mounting

**WATERPROOF**  
Use of oil-resistance and weather-resistance rubber materials for the O ring and the gaskets.



SECTION

IP68 (Test conditions):  
No water intrusion, while submerged in  
2 meter water depth for 14 days.

# Vibration Resistant

## CONTACT SPRING & SCREW MOUNTING ENABLE USE IN HARSH ENVIRONMENT.

Original contact spring design secures contact & improves vibration resistance\*.

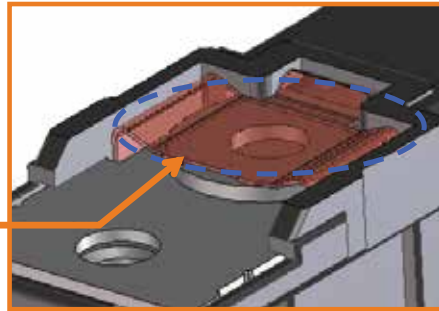
\*VIBRATION CONDITION:  
ISO 16750-3, JASO D 014-3

The plug is tightly secured to the chassis with screw.

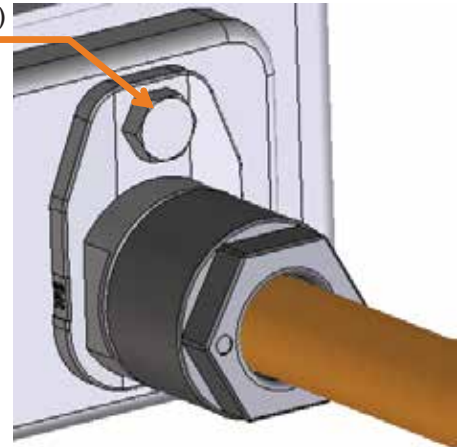


Cable lug is pressed against conductor to make contact.

Contact spring ensures vibration resistance



Screw (M6)



## Specifications

### MATERIAL AND FINISH

	Component	Material	Finish, Remarks
Plug	Shell	Aluminum Alloy	Trivalent chromium chemical conversion treatment
	O ring	Nitrile hydride rubber	-
	Clamp	Stainless steel	-
	Spring ring	Stainless steel	-
	Gasket	Fluoro rubber	-
	Washer, Tightening ring	PPS resin	UL94V-0, Black
Receptacle	Case	PPS resin	UL94V-0, Black
	Hex nut	Steel	Nickel plated
	Spring	Stainless steel	-
	Bus bar	Copper Alloy	Tin plated

### PERFORMANCE CHARACTERISTICS

Rated Current	200A *1 (Refer to the derating curve to see the relationship with operation temperature)
Rated Voltage	800V AC/DC
Operating Temperature	-40°C to +105°C *2
Contact Resistance	0.5mΩ MAX. [1A DC]
Insulation Resistance	1000MΩ MIN. [500V DC]
Withstanding Voltage	4260V AC for 1 minute
Durability	30 times
Water Resistance	IP68*3/IPX9K compliant in mated condition
Vibration Resistance	ISO 16750-3, JASO D 014-3

### APPLICABLE CABLE

NISSEI ELECTRIC CO., LTD's fluorocarbon polymer insulated sheath cable, "FF-MY" 40mm<sup>2</sup> or equivalent product.



\*1 : In the case of a cable with a cross section of 40mm<sup>2</sup>. \*3 : No water intrusion, while submerged in 2 meter water depth for 14 days  
\*2 : Includes the temperature rise by current flow.

For additional information please go to <https://www.hirose.com/product/en/products/EV2/>  
Specifications herein are subject to change without notice. Contact Hirose for latest specifications, drawings, or availabilities.