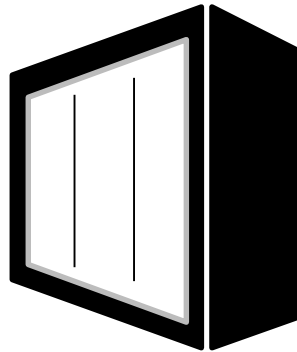


JAE DW Series

Energy Storage Battery Connector

Application Examples

- UPS Equipment
- Energy Storage Systems
- Power Generation Systems



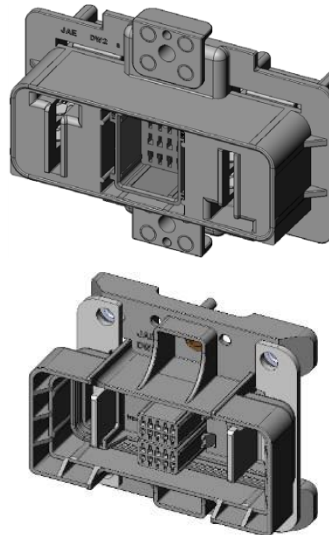
DW Series Overview

The DW Series are an array of high power connectors that make connecting energy storage batteries easier and more efficient. They range from large-scale energy storage to mid-range energy storage battery connectors. It is ideal for these connectors to be used in plant buildings, industrial locations and offices.

DW1



DW2



DW3



DW Series Features

Features

- Power and signal contacts in one robust insulator
- Easy to harness signal contact unit
- High-reliability 2 points of contact (similar to automotive contacts)
- One side floats when mounted for easy mating
- Electric shock prevention (DW1 plug, DW2 rec, DW3 plug and rec)
- Bus-bar or ring terminal harnessed cable to connect battery modules
- Mold and rubber flame retardant 94-V0

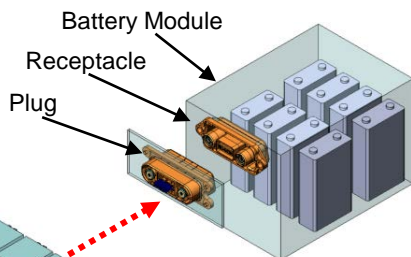


DW Series Features

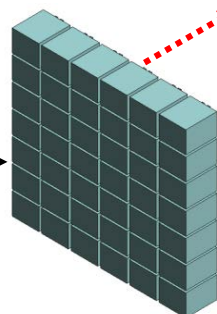
Application Examples



Large-scale Power Storage



Connected by bus-bar or cable



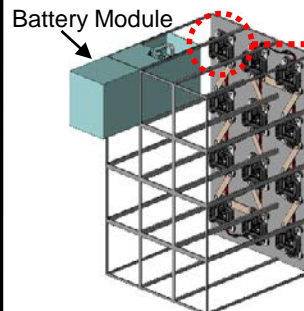
Rack and Panel

Battery Module mounting image

DW1

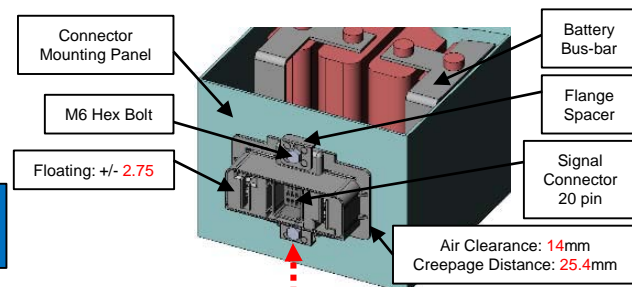


Mid-range Power Storage

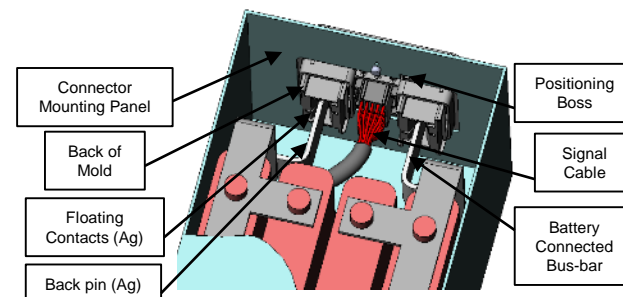


Rack and Panel

DW2



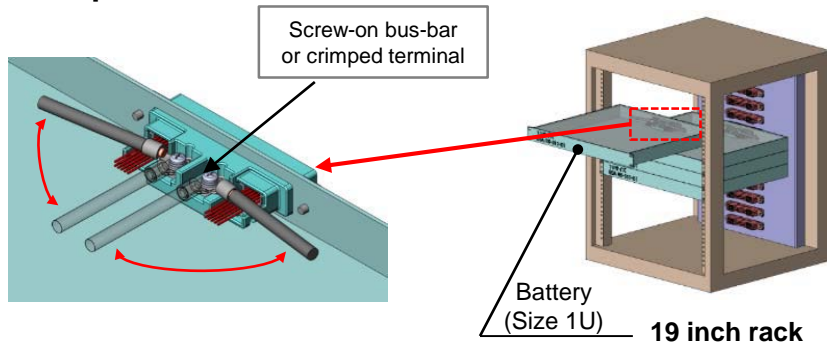
Battery Module Exterior



Battery Module Interior

DW3

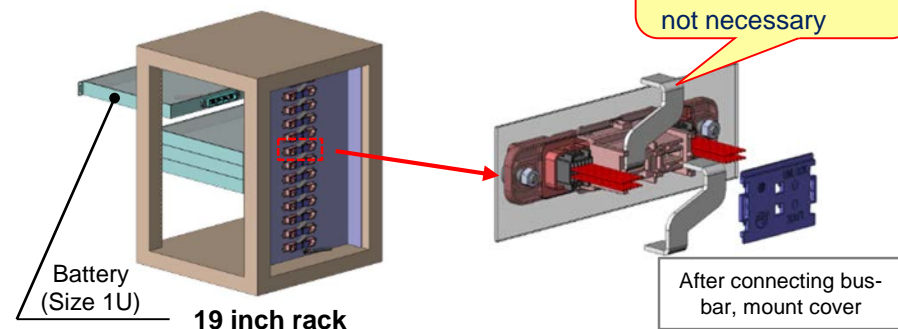
Receptacle



Battery (Size 1U)

19 inch rack

Plug



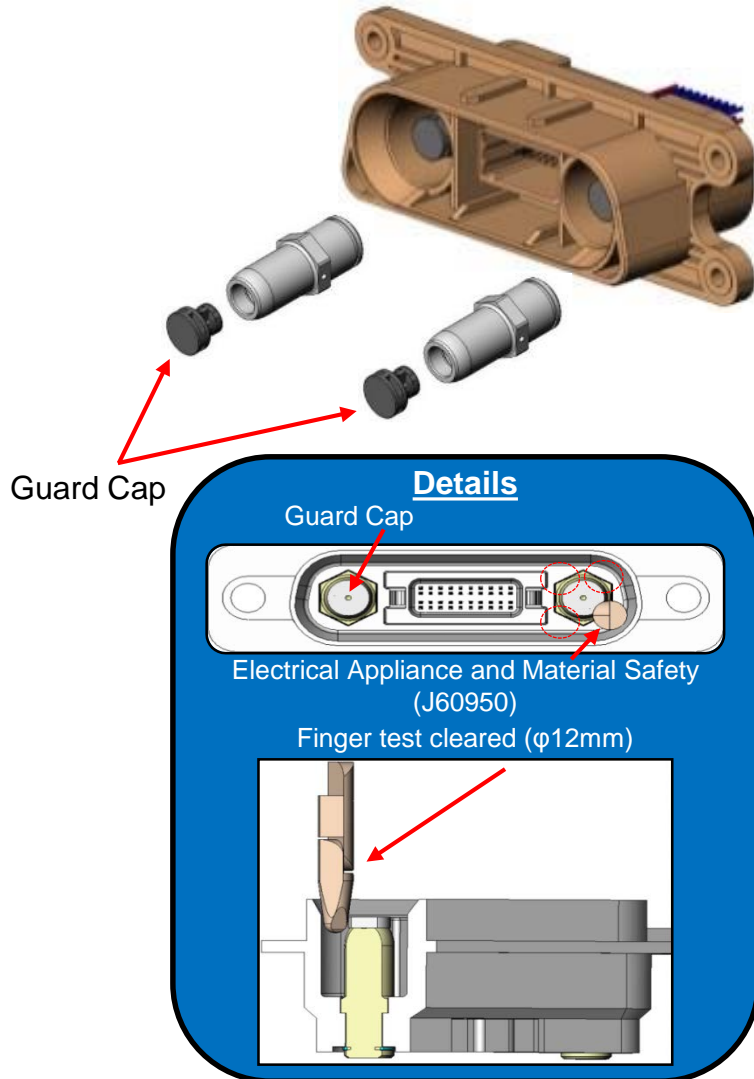
Battery (Size 1U)

19 inch rack

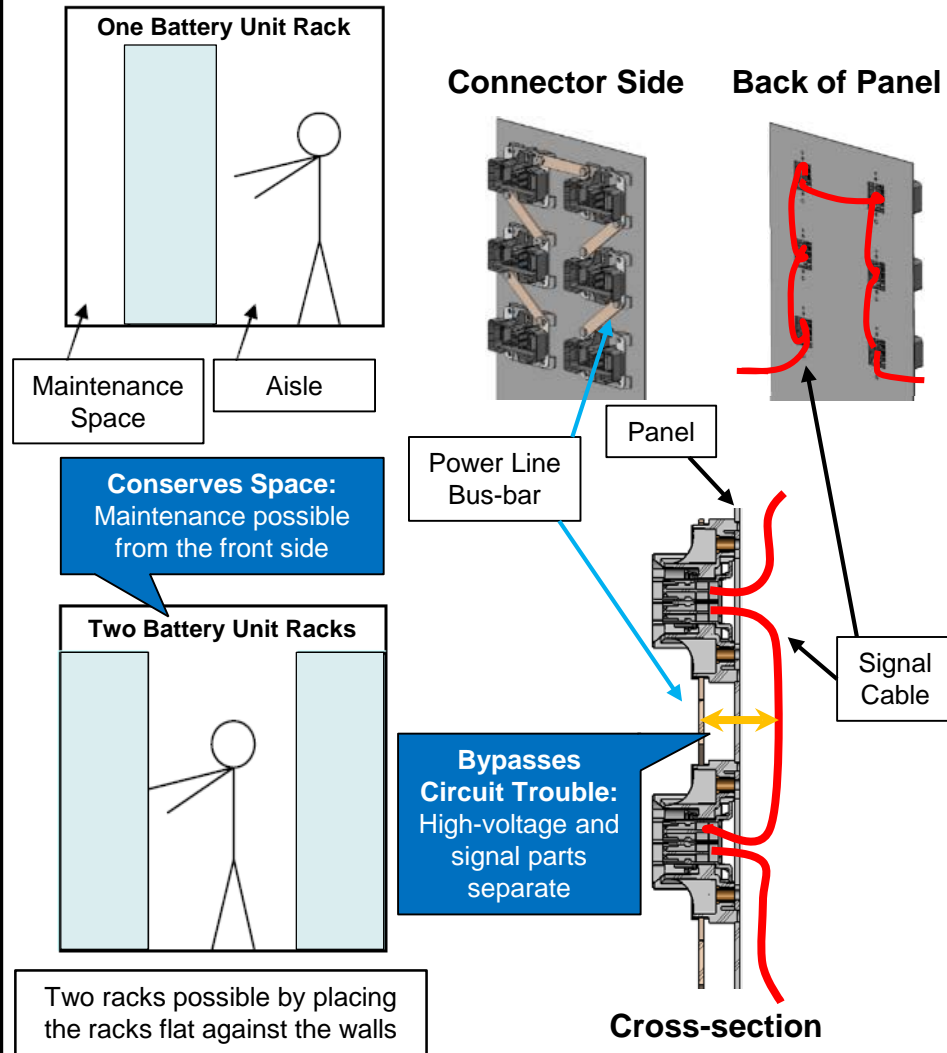
Workability made easy by direct connect to bus-bar (plug)

DW Series Features

DW1: Electric Shock Prevention



DW2: Mounting Features



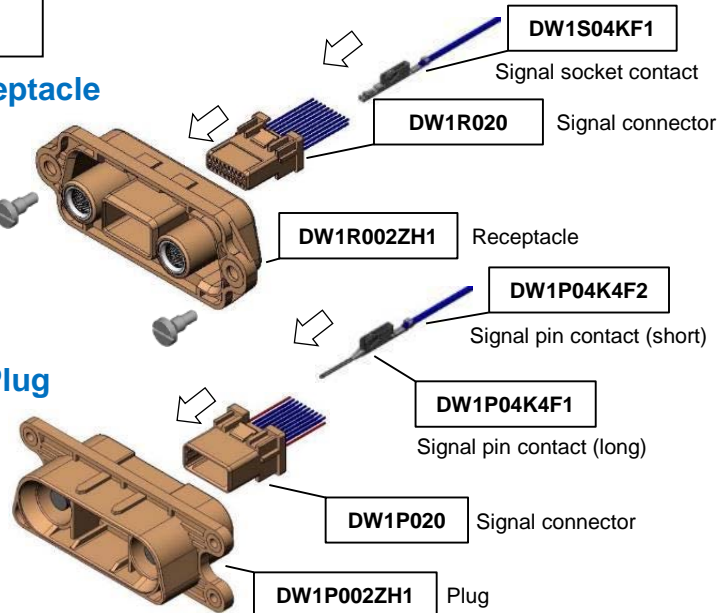
DW Series Connector Parts

DW1

Receptacle

D250-50632
Shoulder bolt

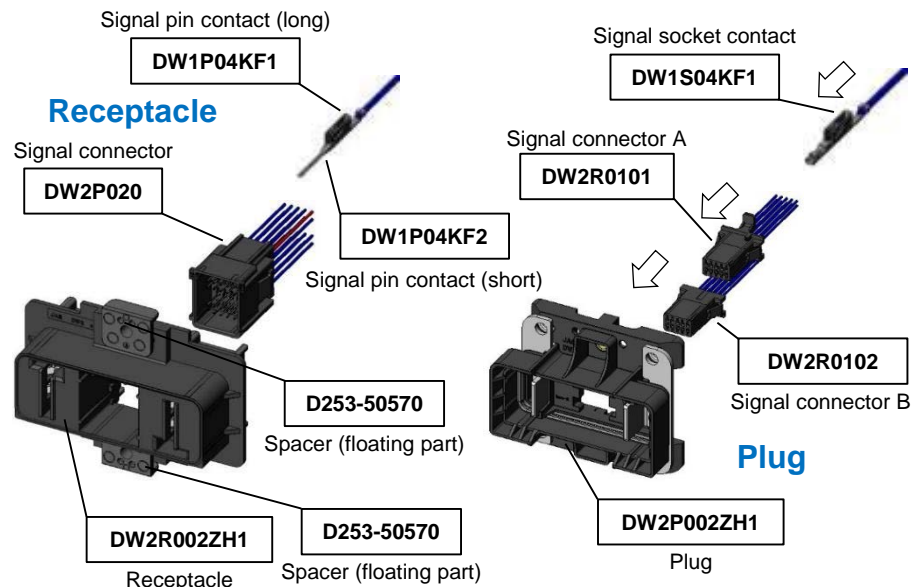
Plug



DW2

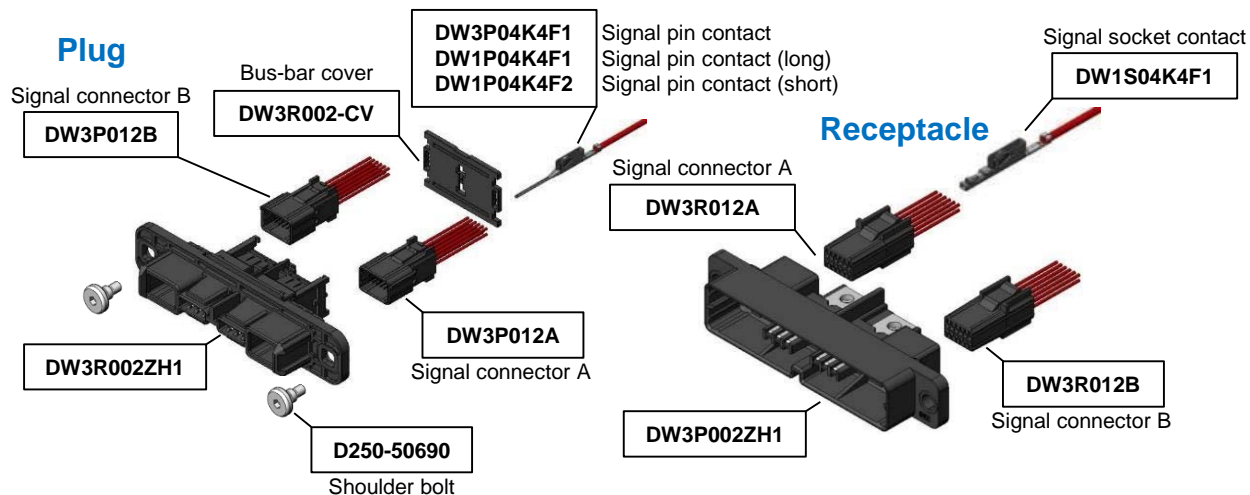
Note - Contacts are packaged in reels

Receptacle



DW3

Plug



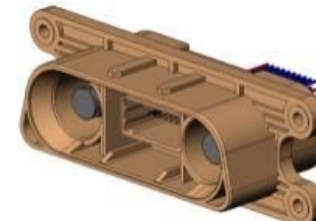
General Specifications

Item		DW1	DW2
Power pins		2	2
Signal pins		20	20
Rated Current	Power	500 A	200 A
	Signal	2 A	2 A
Rated Voltage	Power	600 V	1000 V
	Signal	100 V	100 V
Overvoltage category		4	4
Pollution grade		3	3
Temperature increase at power portion		45°C	45°C
Ambient temperature		-25 to +60°C	-25 to +60°C
Allowable temp at power portion		105°C	105°C

DW1

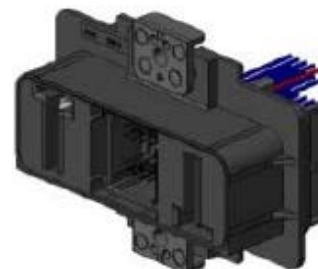


Receptacle



Plug

DW2



**Movable side
(battery side)**

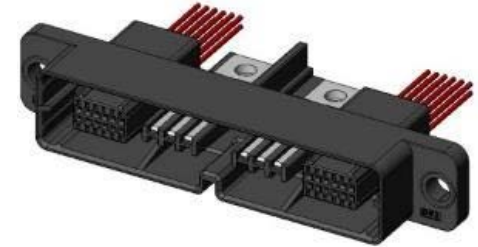


**Fixed side
(panel side)**

General Specifications

Item	Power	Signal
Pin Count	2 pins	24 pins
Rated Current	150 A	2 A
Rated Voltage	1,000 V	100 V
Contact Resistance	Initial: Max. 0.2	Initial: Max. 20 After evaluation: Max. 30
Cable	Bus Bar: Width 15 +/- 1mm Thickness 3 +/- 0.1mm	AWG22 (0.3mm ²) Outer diameter of coated cable: 1.5mm
Durability	100 times	
Overvoltage Category	4	
Pollution Grade	3	
Ambient Temperature	-25 to +60°C	
Temperature increase at power contact	Max. 45°C	
Allowable temp at power portion	Max. 105°C	

DW3



Receptacle

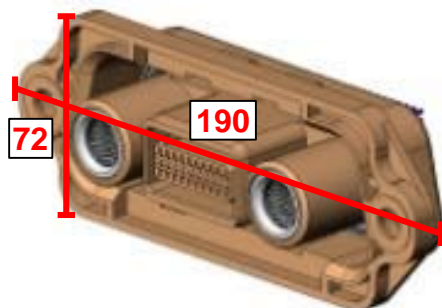


Plug

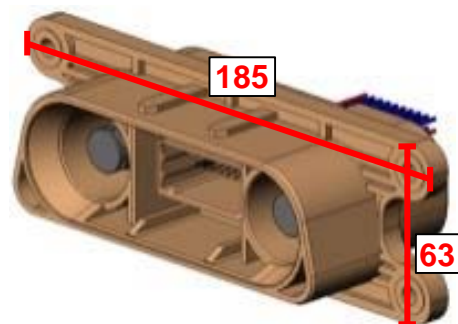
Mounting Dimensions

Unit: mm

DW1

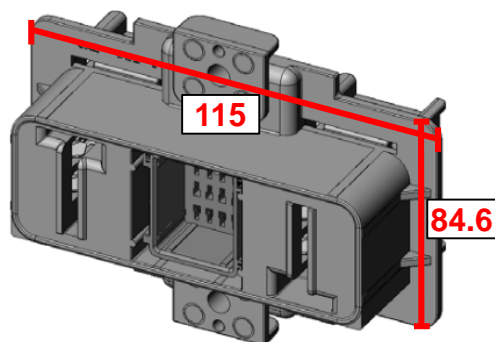


Receptacle

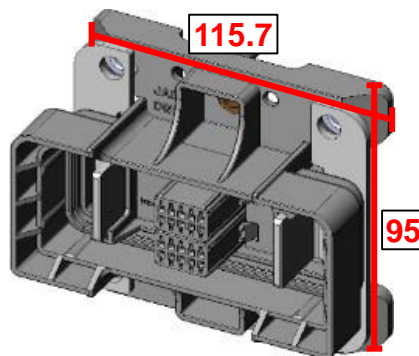


Plug

DW2

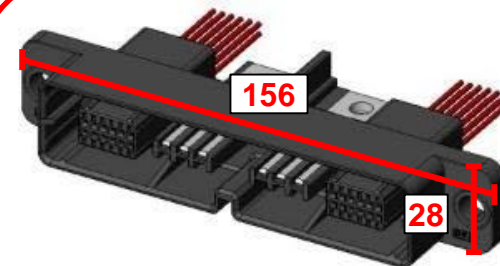


Receptacle

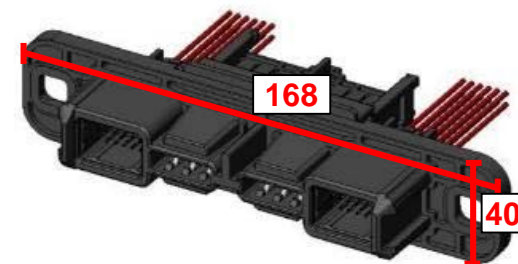


Plug

DW3



Receptacle




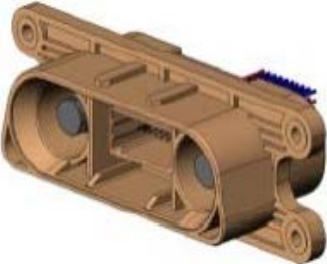
Plug

*Ideal for 1U Racks

Materials and Finishes

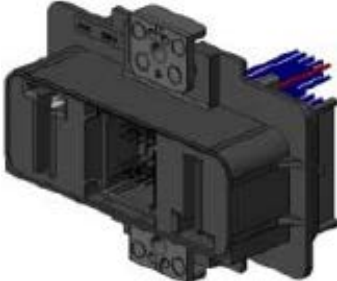
DW1

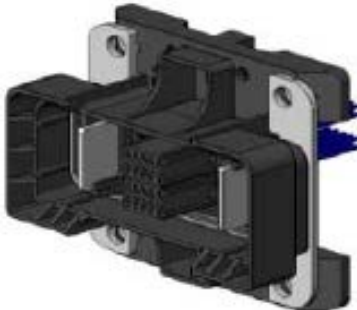
Receptacle	Description	Material/Finish
 <p>DW1R002ZH1</p>	Receptacle Housing	Polyphenylene Sulfide / Color: Brown (UL94V-0)
	Socket Contact	Copper Alloy / Ag plating
	C Snap Ring	Stainless steel / None
	Spring Contact	Copper Alloy / Ag plating
	Seal Ring	Silicon Rubber / Color: Gray (UL94V-0)

Plug	Description	Material/Finish
 <p>DW1P002ZH1</p>	Plug Housing	Polyphenylene Sulfide / Color: Brown (UL94V-0)
	Pin Contact	Copper Alloy / Ag plating
	C Snap Ring	Stainless steel / None
	Cover Cap	Polyphenylene Sulfide / Color: Black (UL94V-0)

Materials and Finishes


DW2


Receptacle	Description	Material/Finish
 <p>DW2R002ZH1</p>	Outer Housing	Polyphenylene Sulfide / Color: Black
	Floating Contact	Copper Alloy / Ag plating
	Helical Extension Spring	Stainless steel / None
	Rear Housing	Polybutylene Terephthalate / Color: Black

Plug	Description	Material/Finish
 <p>DW2P002ZH1</p>	Outer Housing	Polyphenylene Sulfide / Color: Black
	M8 Hexagon Nut	Brass / Ni plating
	Pin Contact	Copper Alloy / Ag plating
	Spring Pin	Stainless steel / None
	Sleeve	Brass / None
	Gasket	Silicon Rubber / Color: Grey

Materials and Finishes

DW3

Receptacle	Description	Material/Finish
 <p>DW3R002ZH1</p>	Base Housing	Polybutylene Terephthalate / Color: Black
	Floating Housing	Polybutylene Terephthalate / Color: Black
	Floating Contact	Copper Alloy / Ag plating
	Helical Extension Spring	Stainless steel / None
	Spring Pin	Stainless steel / None

Plug	Description	Material/Finish
 <p>DW3P002ZH1</p>	Base Housing	Polybutylene Terephthalate / Color: Black
	Pin Contact	Copper Alloy / Ag plating
	Hexagon Nut M6	Brass / Ni plating
	Spring Pin	Stainless steel / None

Summary

- High power connectors that make connecting energy storage batteries easier and more efficient.
- Range from large-scale to mid-range energy storage battery connectors
- Power and signal contacts in one robust insulator
- Easy to harness signal contact unit
- High-reliability 2 points of contact (similar to automotive connectors)
- One side floats when mounted for easy mating
- Electric shock prevention (DW1 plug, DW2 rec, DW3 plug and rec)
- Bus-bar or ring terminal harnessed cable to connect battery modules