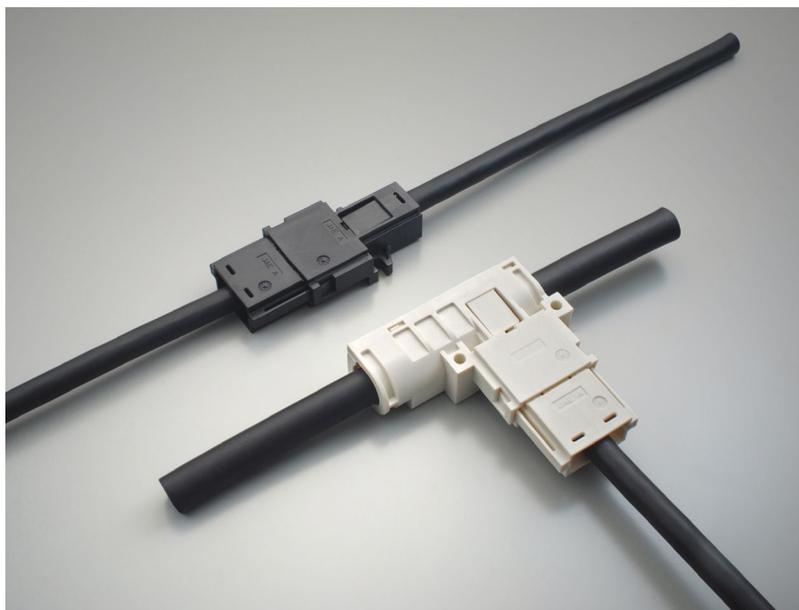


High-Current Connector DW05 Series

CONNECTOR
MB-0283-2
Dec. 2021

RoHS Compliant



In conjunction with the accelerated need for energy management there has been a global increase in popularity of storage battery system using lithium-ion. There is an extreme importance associated with safety during assembly and maintenance when working with systems such as storage battery utilizing high-currents. This leads to the increased demand for connection that will prevent incorrect wiring and short circuit incidences. JAE developed the DW05 Series, 150A-rated high-current connector, which was designed with safety in mind when making high-current connection.

The DW05 Series contacts were designed with finger touch prevention. Also, having distinguishable mating shapes prevent connecting opposite polarities, eliminating the fear of short circuit incidents, all leading to high safety reliability. The DW05 Series comes with a housing with an easy-to-use locking system for simplified mating and unmating the connector, as well as having an option to securely screw down the connector.

The DW05 Series features a multi-contact structure technologically proven to provide superiorly stable connection in use of high-currents.

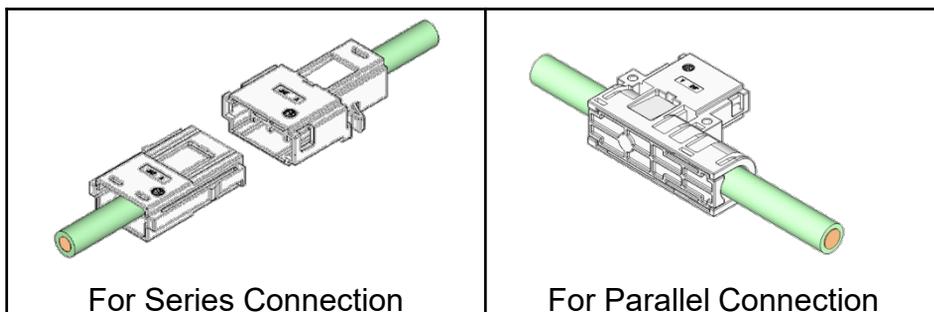
Features

- Structure preventing short circuit even through accidental operation
- Mis-mating prevention key and housing color prevent mis-wiring during mating process
- Crimp termination allowing for in-field assembly
- Optimal for series and parallel connections

Application

ESS (Energy Storage System)
High-current required industrial equipment

General Specifications

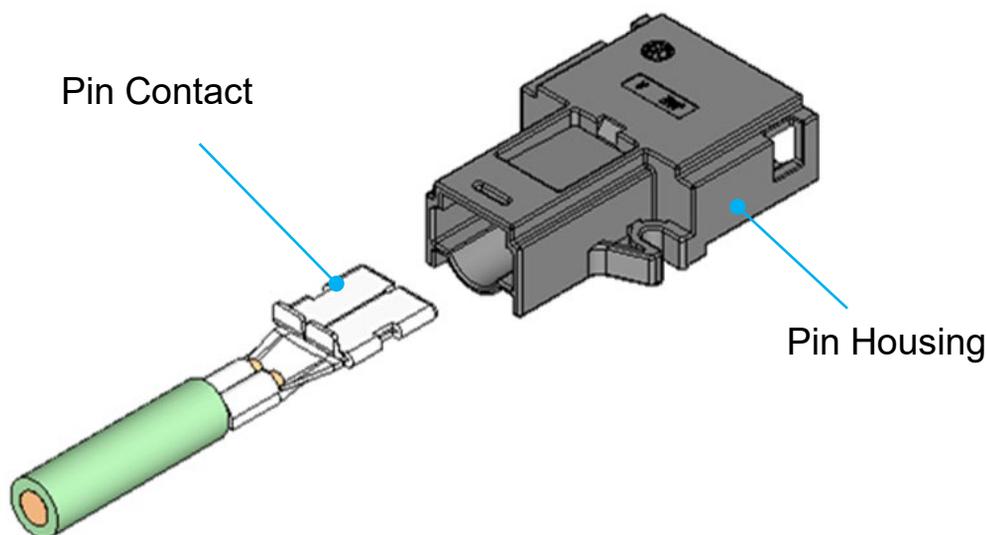


Number of Contacts		1 pos	
Operating Temperature Range		-40°C to +85°C	
Rated Current		AC150A, DC150A (Temperature Rise: 40°C max.)	
Durability		100-cycles	
Contact Resistance		0.2mΩ max. (initial), 0.3mΩ max. (post-test)	
Applicable Cables	Wire Size	14~42mm ² (AWG #6, #4, #2)	38~60mm ² (AWG #1, #1/0)
	Insulation Outer Diameter	13.0mm max.	16.0mm max.

Materials and Finishes

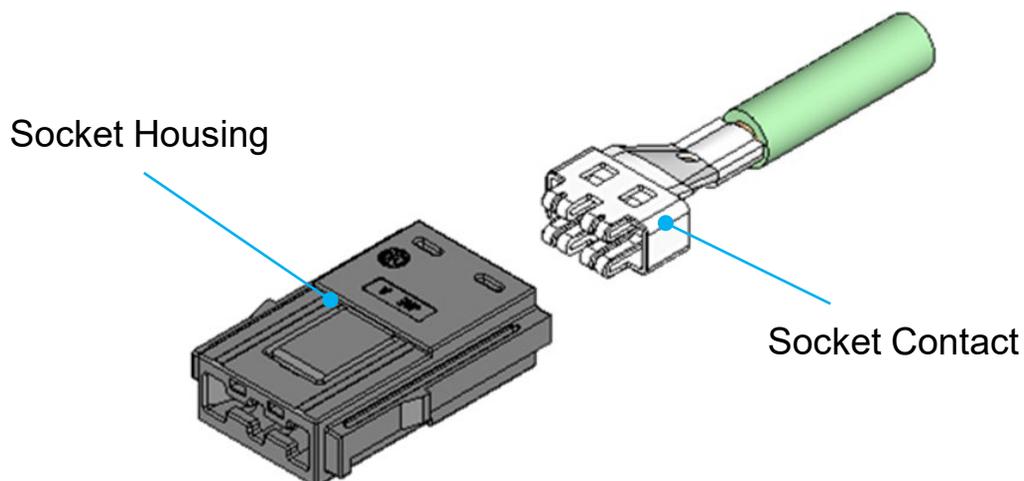
■ Pin Connector

Component	Material	Finish
Pin Housing	PBT	-
Pin Contact	Copper Alloy	Silver Plating



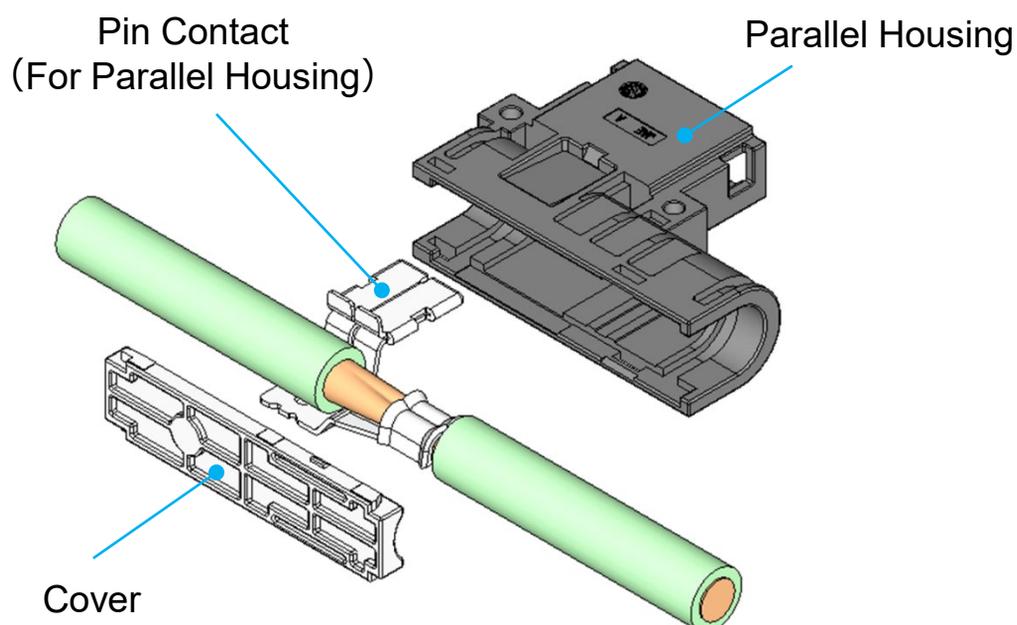
■ Socket Connector

Component	Material	Finish
Socket Housing	PBT	—
Socket Contact	Copper Alloy	Silver Plating



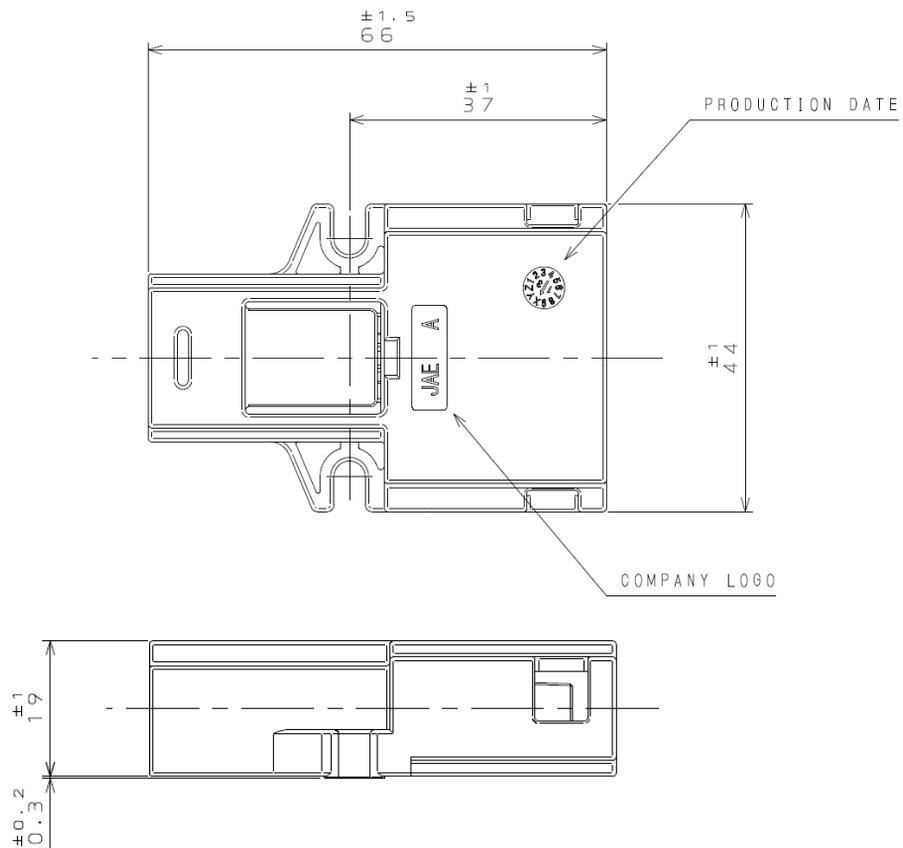
■ Parallel Connector

Component	Material	Finish
Parallel Housing	PBT	—
Cover	PBT	—
Pin Contact	Copper Alloy	Silver Plating

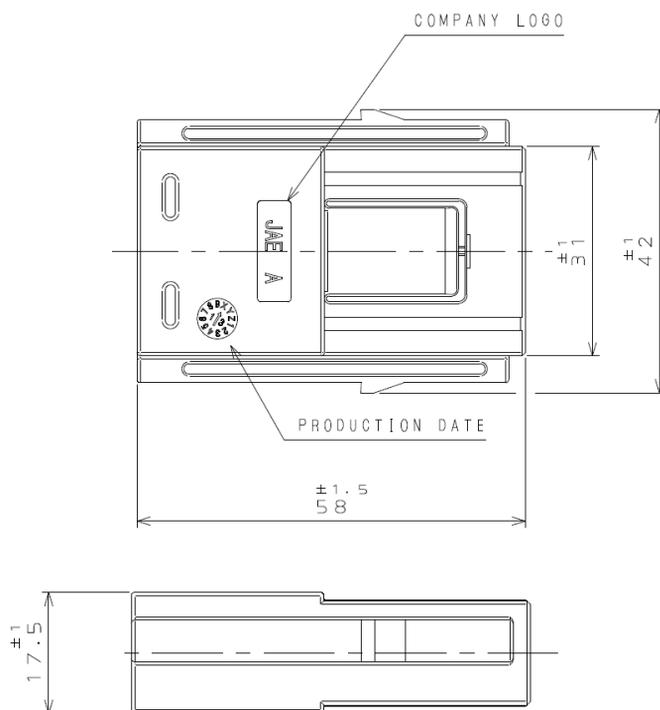


Outer Dimensions

■ Pin Connector

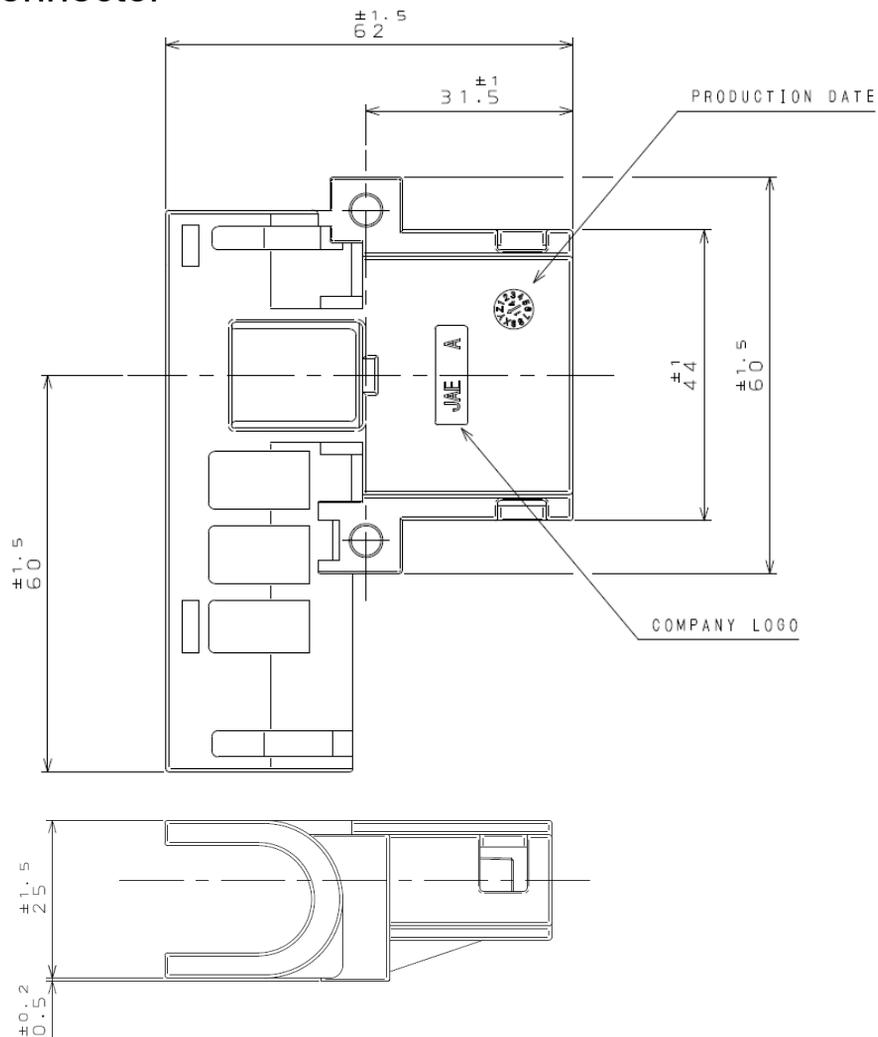


■ Socket Connector



Outer Dimensions

■ Parallel Connector



Notice:

1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.

2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.

3. The products presented in this brochure are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

(1) Applications that require consultation:

(i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.

(ii) We may separately give you our support with a quality assurance program that

you specify, when you think of a use such as :

Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc.

Japan Aviation Electronics Industry, Limited

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