

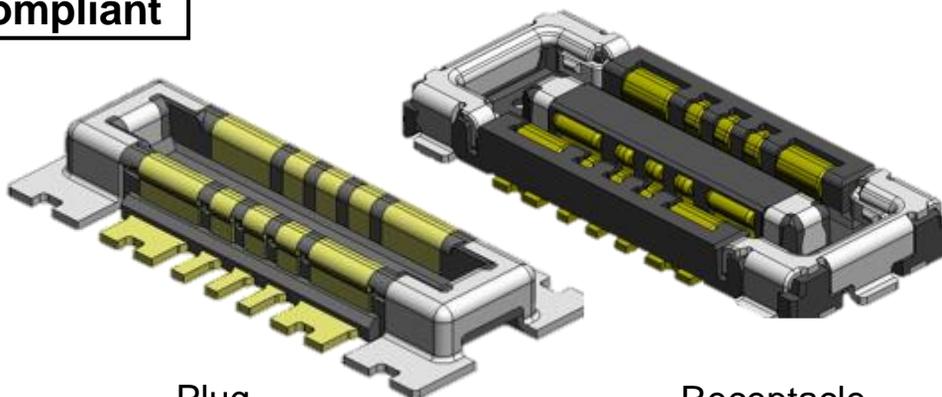
Compact 15A Battery Board-to-board (FPC) Connector

CONNECTOR

WP11 Series

MB-0401-1

Mar.2025

RoHS CompliantPlugReceptacle

Portable devices, including smartphones, wearable devices and tablets, are increasingly demanding higher power connectors to enable faster charging speeds and higher capacity batteries. In addition, as devices become smaller, connectors need to be miniaturized while still maintaining mechanical strength. The WP11 Series supports 15A of current, which is 1.25 times higher than its predecessor, the WP10 Series, while having the same pitch and stacking height. Moreover, by having a seamless guide structure on the plug hold-down, robustness of the product is enhanced greatly.

Application

Smartphones, smart glasses, AR/VR headsets, tablet PCs, gaming terminals, other portable devices

Features

- 0.4mm pitch, 0.7mm stacking height
- Power terminal and hold-down support 15A supply
- Hold-down structure for protection to the mating surface
- Improved workability for customers with a clear click feeling
- Highly reliable 2-point of contact
- Nickel barrier on contact prevents solder wicking

General Specifications

Number of Contacts	6 pos.(signal), 4 pos.(power), 2pos.(hold-down)
Pitch	0.4mm
Contact Resistance	Signal Terminal: 20mΩ max. (initial) 30mΩ max. (after test) Power Terminal + Hold-down: 5mΩ max. (initial) 20mΩ max. (after test)
Dielectric Withstanding Voltage	AC250Vr.m.s. (per minute)
Insulation Resistance	100MΩ min. (initial)
Durability	30 mating cycles
Operating Temperature Range	-40 deg. C to +85 deg. C
Rated Current	Signal Terminal: 0.3A Power Terminal + Hold-down: 15A
Rated Voltage	AC, DC 50V
Insertion Force	35N max.
Extraction Force	8N min. (initial)

Materials and Finishes

Components	Materials	Finishes
Contact	Copper alloy	Au/Ni plating (Contact area) Au/Ni plating (Mounting area)
Insulator	Heat-resistant plastic	-
Hold-down	Copper alloy	Au/Ni plating (Contact area) Au/Ni plating (Mounting area)

Ordering Information

WP11 - * * * * V A * - R * * * *

Series: WP11

Contact Shape
 P : Plug
 S : Socket

Number of Contacts :
 in three digits (***)

Reeled Part Number (Note 1)
 (R15000)

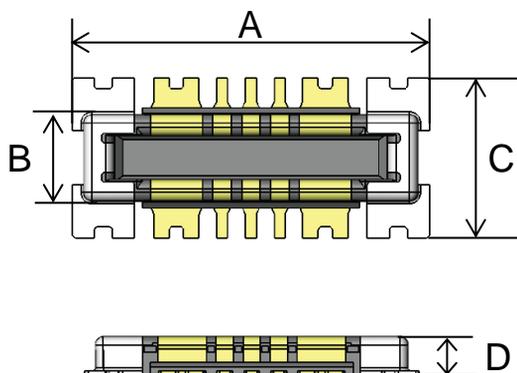
Modification Code

Finish
 A: Au plating

Connection Type
 V: Stacking

Note 1) An embossed tape reel contains 15,000 pieces.
 Please contact us for details on embossed tape specifications.

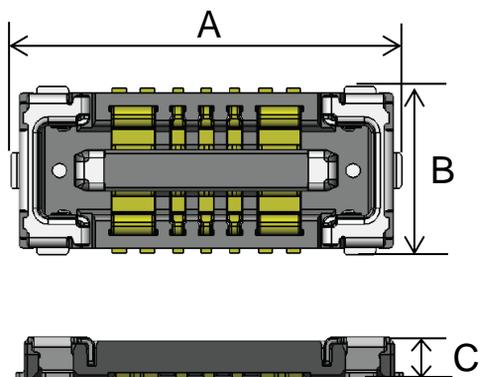
Outer Dimensions (Plug)



Unit : mm

Dimensions Number of Contacts	A	B	C	D
6	4.97	1.19	2.2	0.57

Outer Dimensions (Receptacle)



Unit : mm

Dimensions Number of Contacts	A	B	C
6	5.54	2.35	0.57

Product Drawings and Specifications

Part Number	Drawing Number	Specifications	Handling Instructions
WP11-P***VA*-R15000 (Plug side)	SJ131130 (Individual Product)	JACS-11567	JAHL-11567
	SJ131131 (Reeled Product)		
WP11-S***VA*-R15000 (Receptacle side)	SJ131132(Individual Product)		
	SJ131133 (Reeled Product)		

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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