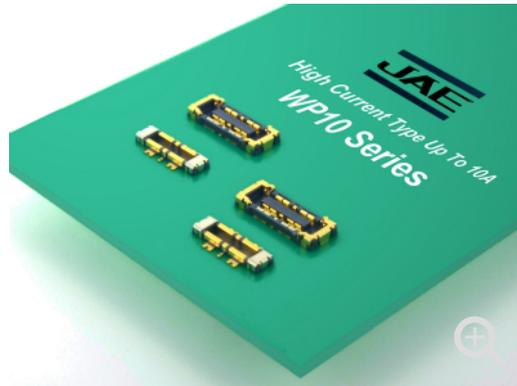


# WP10 Series (0.4 mm Pitch Stacking Type Board-to-board (FPC) Connector)

## 0.4 mm Pitch Stacking Type Board-to-board (FPC) Connector



The WP10 Series is a stacking type board-to-board(FPC) connector which is low-profile and saves space. It is ideal for high-current connection areas like battery connections in compact hand-held devices such as smartphones, wearable device and tablet PCs.

This product features a high-current compatible power terminal and allows for power distribution of 10A. Furthermore, there is a variant that can support up to 12A by using a combination of the power supply terminal plus a modified hold-down. The hold-down structure which has a lock area prevents damage to the connector during mating, improving operability for customers, and also has a high extraction force to prevent disengagement of the product.

## Features

- 0.40 mm pitch, 2 rows, 0.7 mm stacking height, 2.2 mm width
- Power terminals compatible with 10A power supply (5.0A/ pin x 4pin)  
12A variant available with modified hold-down for additional power
- 2-point structure design for both power and signal terminals to resist twisting stress
- Armored durable hold-down structure with lock area that enhances retention force and adds protection to the mating surface to prevent damage to the plastic insulator
- Improved workability for customers with a clear click feeling during mating
- Contact structure ensures high wear-resistance and high conduct reliability
- Pb-free. Nickel barrier on contact

## Applications

Mobile phones, smartphones, wearable devices, tablet PCs, notebook PCs, and other small portable devices

## General Specifications

<b>Number of Contacts</b>	2, 4 pos. (signal), 4 pos. (power), 2 pos. (Hold-down)
<b>Pitch</b>	0.4 mm, 2 rows

<b>Rated Current</b>	Signal Terminal: AC, DC 0.4 A per pos. Power Supply Terminal: AC, DC 5.0 A per pos. Highly conductive Hold-down: AC, DC 2.0 A per pos.(Only for 12 A products)
<b>Rated Voltage</b>	AC, DC 50 V
<b>Contact Resistance (Initial)</b>	Signal Terminal: 20 mΩ max. (initial) Power Supply Terminal: 5 mΩ max. (initial) Hold-down: 20 mΩ max. (initial)
<b>Insulation Resistance (Initial)</b>	100 MΩ min. (initial)
<b>Dielectric Withstanding Voltage</b>	AC 250 Vr.m.s. (per minute)
<b>Total Insertion Force</b>	40 N max
<b>Total Extraction Force</b>	10 N min
<b>Durability Mating Cycles</b>	30 mating cycles
<b>Operating Temperature Range</b>	- 40 deg. C to + 85 deg. C

#### **Notice**

1. The values specified in this web site 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 web site 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:

\* 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 evention equipment, etc.

\* 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