

The WP21 Series is a space-saving low-profile stacking type board-to-board (FPC) connector with 0.35mm pitch spacing that is ideal for high-density mounting in slim and compact information communication devices like mobile phones, and smartphones.

The WP21 achieves to minimize more than 10% mounting space compared to our existing product (WP9 Series) and contributes to save board space and also enhances design flexibility for customers.

Features

- 0.35mm pitch, 2 rows, 0.6mm stacking height.
- 2-point contact design to resist twisting stress.
- Improved workability for customers with a clear click feeling.
- Contact structure ensures high wear-resistance and high contact reliability.
- Pb-free. (Ni barrier on contact prevents solder wicking.)

General Specifications

■No. of Contacts: 10, 20, 22, 24, 30, 34, 40, 42, 46, 54 pos.

- ■Pitch: 0.35mm, 2 rows
- Operating Temperature: -40 Deg. C to +85 Deg. C
- ■Contact Resistance: 70mΩ max (initial)
- Life Time: 30 mating cycles

Rated Current:

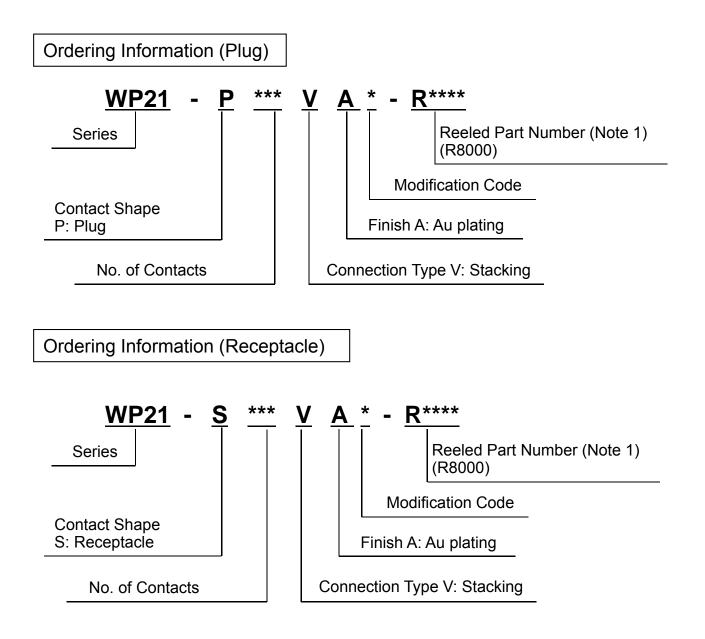
AC, DC 0.3A each per terminal

- ■Rated Voltage: AC, DC 50V
- Insulation Resistance: 100M Ω min. (initial)
- Dielectric Withstanding Voltage: AC250Vr.m.s for 1 minute
- Total Insertion Force: 1.5N x n max. (n: No. of pos.)
 Total Extraction Force:

0.15N x n min. (n: No. of pos.)

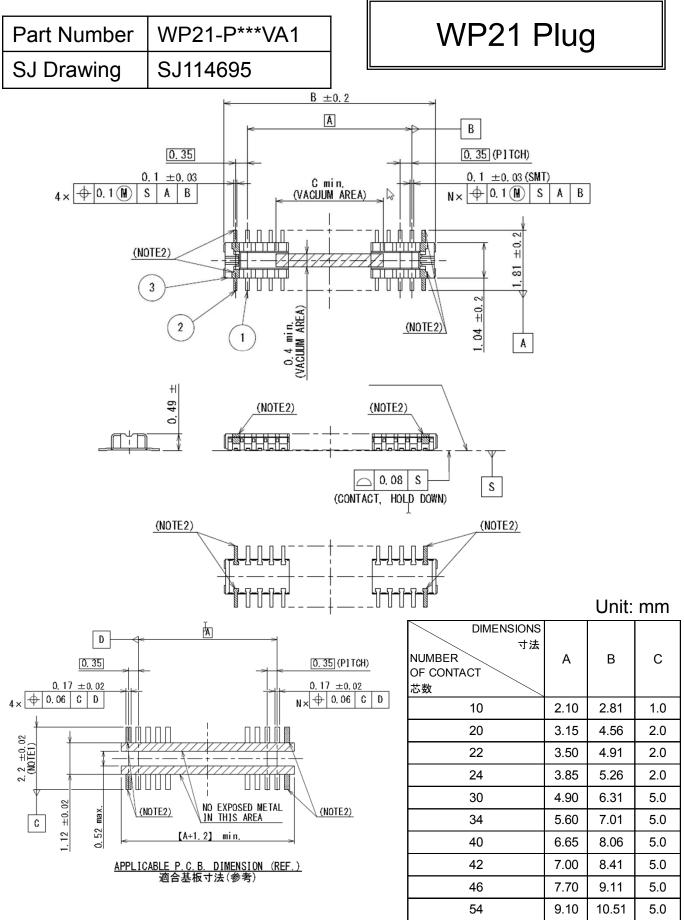
Materials and Finishes

Component	Material and Finish	
Contact	(Contact Area) Cu alloy / Au plating (0.1µm min.) (Mounting Area) Cu alloy / Au plating (0.05µm min.)	
Insulator	Heat-resistant Plastic	
Hold-down	Plug Side: Cu alloy / Au plating (0.05µm min.)	
	Receptacle Side: Cu alloy / Sn plating	



Note 1) An embossed tape reel contains 8,000 pieces. Please contact us for details on embossed tape specifications.

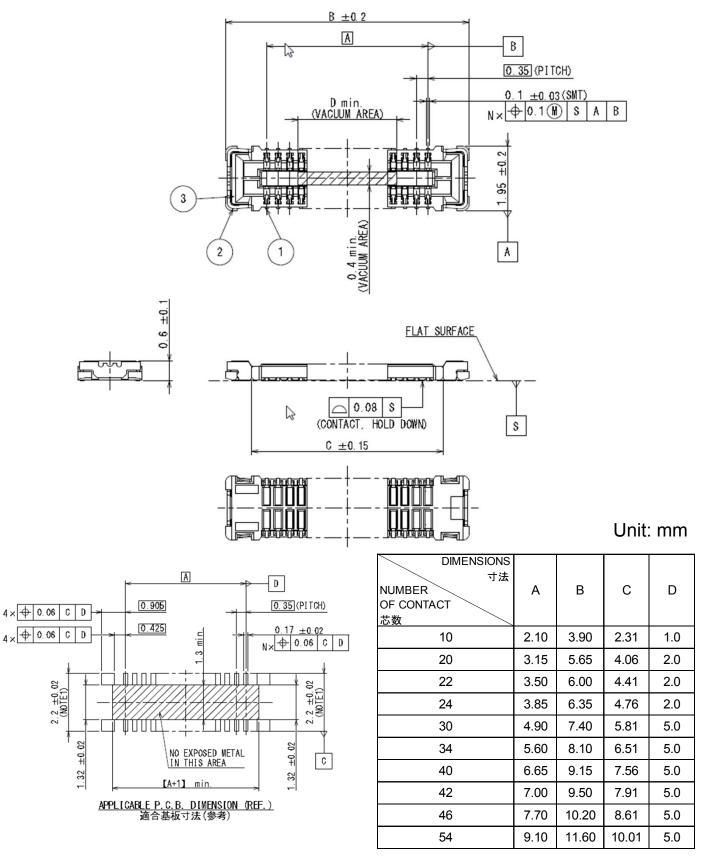
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Note 1) Dimension 2.8 \pm 0.02 is recommended in case repair is needed.

Note 2) Four corners are hold-downs. (Cannot be used for electrical connection.) ex. Connector with 42 (x) pos. will have 46 (x+4) pos. of SMT terminals.

Part Number	WP21-S***VA1	WP21 Receptacle
SJ Drawing	SJ114693	



Note 1) Dimension 2.8 \pm 0.02 is recommended in case repair is needed.

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Product Drawings and Specifications

Series	WP21		
SJ Drawing (Plug)	Individual Product: SJ114695 Reeled Product: SJ114696		
SJ Drawing (Receptacle)	Individual Product: SJ114693 Reeled Product: SJ114694		
Specifications	JACS-11021		
Handling Instructions	JAHL-11021		
Summary Report	SR-C-1329		

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 th

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

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* The specifications in this brochure are subject to change without notice. Please contact JAE for information.

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