

The WP7 Series is a low-profile board-to-board (FPC) connector with 0.4mm pitch spacing that is ideal for high-density mounting in slim information communication devices like mobile phones, smartphones, LCD, and notebook PC.

To satisfy different product function requirements, a low pin count type and a high pin count type (WP7A/WP7B) are available with the same mounting pattern.

# Features

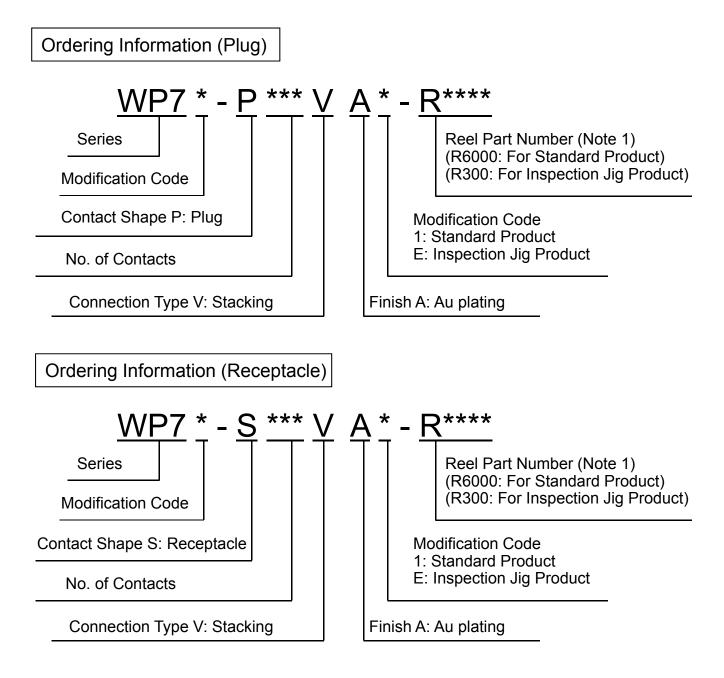
Conoral Specifications

- 0.4mm pitch, 2 rows, 0.7mm stacking height.
- · Contact structure ensures high wear-resistance and high contact reliability.
- Secure hold-downs prevent insulator breakage and peeling from FPC.
- 2-point contact design to resist twisting stress.
- Pb-free (Ni barrier on contact prevents solder wicking.)
- High removal force WP7A for (low pin count: 10-30 pos.)
- Low insertion force WP7B for (high pin count 40-70 pos.)
- \* Mounting pattern for WP7A and WP7B is the same.

General Specifications	
■(WP7A) No. of Contacts: 10, 16, 20, 24, 26, 28,30,32 pos.	<ul> <li>Rated Current: AC, DC 0.3A each per terminal</li> <li>Rated Voltage: AC, DC 50V</li> </ul>
■(WP7B) No. of Contacts: 34, 40, 50, (60), 70 pos.	■Insulation Resistance: 100MΩ min. (initial)
	■Dielectric Withstanding Voltage: AC250Vr.m.s for 1 minute
Note: () is planned to be developed	■(WP7A) total insertion force: 1.50N x n max. (n: No. of pos.)
<ul> <li>Pitch: 0.4mm, 2 rows</li> <li>Operating Temperature:</li> </ul>	■(WP7A) total removal force: 0.15N x n min. (n: No. of pos.)
-40 Deg. C to +85 Deg. C ■Contact Resistance: 70mΩ max. (initial)	■(WP7B) total insertion force:
■Life Time: 30 mating cycles	■(WP7B) total removal force: 0.10N x n min. (n: No. of pos.)

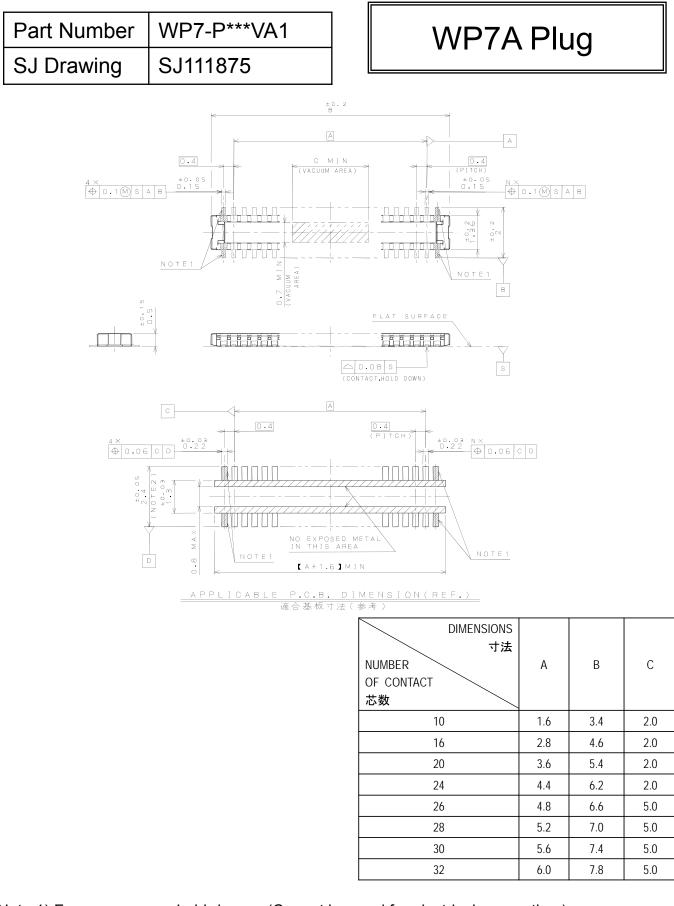
Materials and Finishes

Component	Material / Finish
Contact	Cu alloy / Au plating (0.1 µm min.)
Insulator	Heat-resistant plastic
Hold-Down	Plug: Cu alloy / Au plating (0.1µm min.) Receptacle: Cu alloy / Sn plating



Note 1) An embossed tape reel contains 6,000 pieces of standard product, or 300 pieces of inspection jig product. Please contact us for details on embossed tape specifications.

# MB-0228-2



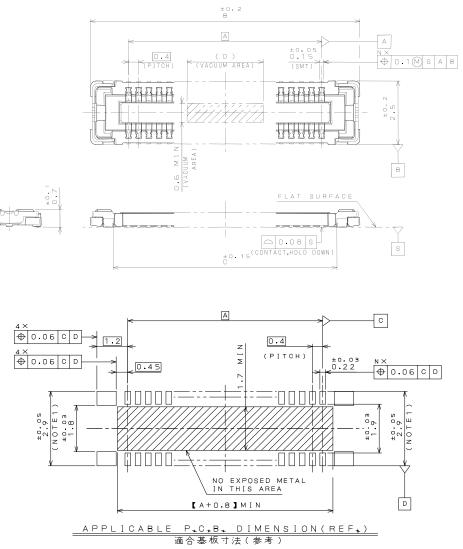
Note 1) Four corners are hold-downs. (Cannot be used for electrical connection.)

ex. Connector with 10 (N) pos. will have same amount of SMT terminals as 14 (N+4) pos.

Note 2) Dimension  $3\pm0.05$  is recommended in case repair is needed.

WP7A Receptacle

Part Number	WP7A-S***VA1
SJ Drawing	SJ111877



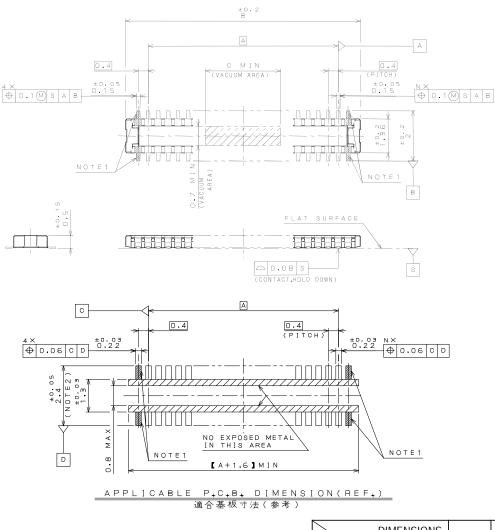
DIMENSIONS 寸法 NUMBER OF CONTACT 芯数	A	В	С	D
10	1.6	4.6	2.8	2.0
16	2.8	5.8	4.0	2.0
20	3.6	6.6	4.8	2.0
24	4.4	7.4	5.6	2.0
26	4.8	7.8	6.0	5.0
28	5.2	8.2	6.4	5.0
30	5.6	8.6	6.8	5.0
32	6.0	9.0	7.2	5.0

Note 1) Dimension  $3.5 \pm 0.05$  is recommended in case repair is needed.

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Part Number	WP7B-P***VA1
SJ Drawing	SJ111879

# WP7B Plug

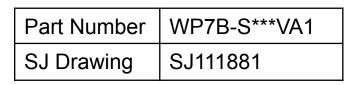


DIMENSIONS			
寸法 NUMBER OF CONTACT	A	В	С
芯数			
34	6.4	8.2	5.0
40	7.6	9.4	5.0
50	9.6	11.4	5.0
(60)	11.6	13.4	5.0
70	13.6	15.4	5.0

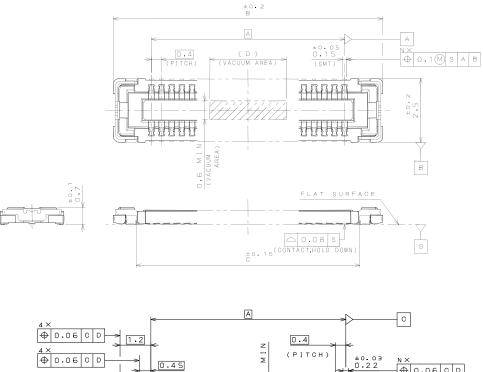
Note 1) Four corners are hold-downs. (Cannot be used for electrical connection.)

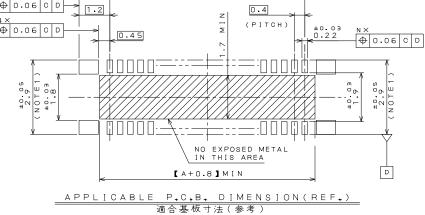
ex. Connector with 40 (N) pos. will have same amount of SMT terminals as 44 (N+4) pos.

Note 2) Dimension  $3\pm0.05$  is recommended in case repair is needed.









DIMENSIONS 寸法 NUMBER OF CONTACT 芯数	A	В	С	D
34	6.4	9.4	7.6	5.0
40	7.6	10.6	8.8	5.0
50	9.6	12.6	10.8	5.0
(60)	11.6	14.6	12.8	5.0
70	13.6	16.6	14.8	5.0

Note 1) Dimension  $3.5 \pm 0.05$  is recommended in case repair is needed.

**Product Line-up** 

Types	WP7A (10-32 pos.)	WP7B (34-70pos.)
Drawings (Plug)	Individual Product: SJ111875 Reel Product: SJ111876	Individual Product: SJ111879 Reel Product: SJ111880
Drawings (Receptacle)	Individual Product: SJ111877 Reel Product: SJ111878	Individual Product: SJ111881 Reel Product: SJ111882
Specifications	JACS-10814	JACS-10818
Handling Instructions	JAHL-10814	JAHL-10818
Summary Reports	SR-C-1023	SR-C-1024

#### 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

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

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Authorized Distributor

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# **JAE Electronics**:

 WP7-P010VA1-R6000
 WP7-P026VA1-R6000
 WP7-P030VA1-R6000
 WP7-P020VA1-R6000
 WP7-P020VA1-R500

 WP7A-S026VA1-R500
 WP7B-S070VA1-R500
 WP7B-P050VA1-R6000
 WP7A-S020VA1-R6000
 WP7-P026VA1-R500

 WP7B-P070VA1-R500
 WP7B-S050VA1-R6000
 WP7A-S010VA1-R500
 WP7A-S030VA1-R500
 WP7-P010VA1-R500

 WP7B-S050VA1-R500
 WP7A-S020VA1-R500
 WP7A-S030VA1-R500
 WP7-P010VA1-R500
 WP7-P010VA1-R6000

 WP7B-S050VA1-R500
 WP7A-S020VA1-R6000
 WP7A-S030VA1-R6000
 WP7A-S010VA1-R6000
 WP7-P024VA1-R6000

 R6000
 WP7B-S040VA1-R6000
 WP7A-S024VA1-R6000
 WP7A-S032VA1-R6000
 WP7A-S024VA1-R6000

 S028VA1-R6000
 WP7B-P040VA1-R6000
 WP7-P028VA1-R6000
 WP7A-S024VA1-R6000
 WP7A-S024VA1-R6000

 WP7B-S034VA1-R6000
 WP7A-S020VAE-R300
 WP7A-S024VA1-R6000
 WP7A-S022VAE-R300
 WP7A-S032VA1-R500

 WP7B-P016VA1-R500
 WP7A-S028VA1-R500
 WP7A-S028VA1-R500
 WP7A-S032VA1-R500
 WP7A-S032VA1-R500

 WP7B-S034VA1-R500
 WP7A-S028VA1-R500
 WP7A-S028VA1-R500
 WP7A-S032VA1-R500
 WP7A-S032VA1-R500

 WP7B-S034VA1-R500
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 WP7A-S032VA1-R500<