The WP6C Series is a low-profile stacking type 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.

The WP6C Series has a shield structure that reduces noise during mating with a secure ground connection with its exclusive terminals on the four corners and with a shield equipped on the rear side of receptacle.

Also, the mounting pattern of the WP6C Series are the same as the existing WP6 Series. Both types with and without shield are available.

Features

- 0.4mm pitch, 2 rows, stacking height 0.8mm.
- 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.
- Enhanced ground connection during mating, and shield structure with anti-noise measure.
- Pb-free. Ni barrier on contact prevents solder wicking.
* The mounting pattern is the same as the existing WP6 Series. (Not mateable)

General Specifications

- No. of Contacts: 24, 30
- Pitch: 0.4mm, 2 rows
- Operating Temperature: -40 Deg. C ~ +85 Deg. C
- Contact Resistance: 70mΩ max. (initial)
- Durability: 30 times
- Rated Current: AC, DC each 0.3A / per 1 pos.
- Rated Voltage: AC, DC 50V
- Insulation Resistance: 100MΩ 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Material and Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>(Contacting area) Copper alloy / Au plating (0.1μm min.)</td>
</tr>
<tr>
<td></td>
<td>(Mounting area) Copper alloy / Au plating (0.05μm min.)</td>
</tr>
<tr>
<td>Insulator</td>
<td>Heat Resistant Plastic</td>
</tr>
<tr>
<td>Ground Contact</td>
<td>Plug Side: Copper alloy / Au flash plating</td>
</tr>
<tr>
<td>Shell</td>
<td>Receptacle Side: Copper alloy / Au flash plating</td>
</tr>
</tbody>
</table>

Ordering Information (Plug)

WP6 C - P *** V A * - R***

Series  Modification Code  Contact Shape P: Plug Side  No. of Contacts  Reel Part Number (Note 1) (R6000: Standard Package)  Modification Code  Finish A: Au plating  Connection Type V: Stacking Type

Ordering Information (Receptacle)

WP6 C - S *** V A * - R***

Series  Modification Code  Contact Shape S: Receptacle  No. of Contacts  Reel Part Number (Note 1) (R6000: Standard Package)  Modification Code  Finish A: Au plating  Connection Type V: Stacking Type

Note 1) An embossed tape reel contains 6,000 pieces of standard product. Please contact us for details on embossed tape specifications.
Part Number | WP6C-P***VA1
---|---
SJ Drawing | SJ112897

WP6C Plug

Note 1) Dimension 3.9 ± 0.05 is recommended in case repair is needed.

Note 2) This product is grand contact.

Note 1) Dimension 3.9 ± 0.05 is recommended in case repair is needed.

Note 2) This product is grand contact.
Note 1) Dimension $3.9 \pm 0.05$ is recommended in case repair is needed.
### Technical Documents

<table>
<thead>
<tr>
<th>Series</th>
<th>WP6C</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing (Plug)</td>
<td>Individual Product: SJ112897, Embossed Reel: J112898</td>
</tr>
<tr>
<td>SJ Drawing (Receptacle)</td>
<td>Individual Product: SJ112899, Embossed Reel: SJ112900</td>
</tr>
<tr>
<td>Specification</td>
<td>JACS-10987</td>
</tr>
<tr>
<td>Handling Instruction</td>
<td>JAHL-10987</td>
</tr>
<tr>
<td>Summary Report</td>
<td>SR-C-1266</td>
</tr>
</tbody>
</table>

**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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