The DW2 Series is a rack and panel connector with 2 contacts for high-current (200A). It enables the connection of the 2 contacts for power supply and 20 contacts for signal at once. The DW2 Series is suitable for use in a wide range of applications such as storage battery systems, power supply systems, UPS, and other power supply control equipments. The DW2 Series is a UL recognized product.

**Features**

- **UL Recognized Product:** File No. E67741
- **High-current:** compatible with 200A
- **Electrical Shock Prevention:** structure that prevents a person's fingers from touching the terminals on receptacle side.
- **Floating Amount:** ±2.75mm
- **Robust housing integrating complex power supply and signal area.**

**General Specifications**

- **No. of Contacts:**
  - 2 pos. (power supply)
  - 20 pos. (signal)
- **Rated Current:**
  - 200A (power supply)
  - 2A (signal)
- **Rated Voltage:**
  - 600V (power supply) * Note 1
  - 100V (signal)

**Contact Resistance:**
- 0.2mΩ max. (initial) power supply
- 20mΩ max. (initial) signal

**Durability:** 100 times
**Operating Temperature:** -25 Deg. C ~ +115 Deg. C
**Wire Size:** 22AWG, twisted wire with insulation cover outer diameter 1.5mm Dia. (signal)

**Note 1:** Please contact us when considering use in usage environments that exceed 600V.
Ordering Information

Connector Main Unit

D W 2 R 0 0 2 Z H 1

Series

Connector Type
R: Receptacle
P: Plug

Modification Code
No. of Contacts
002: 2 pos. (shown in 3 digit)

Plating of Contact Area
H: Ag plating

Connection Type
Z: Others

Connector for Signal (Plug Side Housing)

D W 2 P 0 2 0

Series

Connector Type
P: Plug

No. of Contacts
020: 20 pos. (shown in 3 digit)
Ordering Information

Connector for Signal (Receptacle Side Housing)

D W 2 R 0 1 0 1

Series

Modification Code

Connector Type
R: Receptacle

No. of Contacts
010: 10 pos. (shown in 3 digit)

Note 1: An embossed reel contains 4,000 pcs.

Connector for Signal (Contact)

D W 1 S 0 4 K 4 F 1

Series

Modification Code

Connection Type
S: Crimp, socket
P: Crimp, pin

Plating of Contact Area
F: Sn plating

Applicable Cable Size
4: 22AWG

No. of Contacts
04K: 4000 pcs.

Reel Part Number K: unit of 1000 pcs. (Note 1)
1. Receptacle (Main Unit)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW2R002ZH1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112004</td>
</tr>
</tbody>
</table>

Note 1. PRODUCTION LOT NUMBER AS INDICATED.
Note 2. TIGHTEN SCREW (M6) WITH 5.2[N·m]±0.3[N·m]
SIZE OF MALE SCREW RIDGE: φ5.82～φ5.97
Note 3. DON’T PUT THE FOREIGN BODY WITHIN THIS RANGE.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
<th>Material</th>
<th>Color</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>REAR HOUSING</td>
<td>2</td>
<td></td>
<td></td>
<td>BLACK</td>
</tr>
<tr>
<td>3</td>
<td>HELICAL EXTENSION SPRING</td>
<td>4</td>
<td>STAINLESS STEEL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>FLOATING CONTACT</td>
<td>8</td>
<td>COPPER ALLOY</td>
<td>SILVER PLATING</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>OUTER HOUSING</td>
<td>1</td>
<td>PPS</td>
<td></td>
<td>BLACK</td>
</tr>
</tbody>
</table>

注1. 図示の箇所にロットNo.を表示
(LOT NUMBER DISPLAY EXAMPLE ロット番号表示例)

生産日（DAY）
月（10月：N. 11月：X. 12月：Y）（MONTH OCT：0. NOV：X. DEC：Y）
年（西暦末尾）（YEAR LAST DIGIT ONLY）
製造コード（PRODUCT CODE）

注2. 本体ネジ（M6）締付トルク5.2[N·m]±0.3[N·m]
ねじ山寸法：φ5.82～φ5.97
注3. この範囲に異物を設けないこと。
2. Plug (Main Unit)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW2P002ZH1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112005</td>
</tr>
</tbody>
</table>

Note 1. PRODUCTION LOT NUMBER AS INDICATED.
Note 2. TIGHTEN SCREW (M6) WITH 5.2[N・m]±0.3[N・m]
Note 3. TIGHTEN SCREW (M8) WITH 12.5[N・m]±0.75[N・m]
Note 4. HOLE FOR CABLE UNITY BAND.

**Notes:**
- **GASKET**
- **SLEEVE**
- **SPRING PIN**
- **PIN CONTACT**
- **M8 HEXAGON NUT**
- **OUTER HOUSING**

**Table:**

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Material</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>GASKET</td>
<td>SILICON RUBBER</td>
<td>GREY</td>
</tr>
<tr>
<td>5</td>
<td>SLEEVE</td>
<td>BRASS</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>SPRING PIN</td>
<td>STAINLESS STEEL</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>PIN CONTACT</td>
<td>COPPER ALLOY</td>
<td>SILVER PLATING</td>
</tr>
<tr>
<td>2</td>
<td>M8 HEXAGON NUT</td>
<td>BRASS</td>
<td>NICKEL PLATING</td>
</tr>
<tr>
<td>1</td>
<td>OUTER HOUSING</td>
<td>FFS</td>
<td>BLACK</td>
</tr>
</tbody>
</table>
3. Connector for Signal (Receptacle Side)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW2P020</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112006</td>
</tr>
</tbody>
</table>

Table 1

<table>
<thead>
<tr>
<th>Contact Part No</th>
<th>Size</th>
<th>Outer Diameter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW1P04K4F1</td>
<td>AWG#22</td>
<td>φ 1.5</td>
<td>Signal Contact</td>
</tr>
<tr>
<td>(SJ11311)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DW1P04K4F2</td>
<td>AWG#22</td>
<td>φ 1.5</td>
<td>Detected Contact</td>
</tr>
<tr>
<td>(SJ11312)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note 1. CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1.
Note 2. YEAR AND MONTH OF MANUFACTURED SHALL BE SHOWN AT THE LOCATION.
      (LEFT: ONE LAST DIGIT OF YEAR, RIGHT: MONTH 123456789XYZ)

注1. 本製品はコンタクト別売品であり、適用コンタクトは表1のとおりである。
注2. 図示の位置に製造年月を表示する。
      (左側: 西暦3桁、4桁、右側: 月123456789XYZ)
4. Connector A for Signal (Plug Side)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW2R0101</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112007</td>
</tr>
</tbody>
</table>

Note 1. CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1.
Note 2. THE POSITION OF THE POLARITY KEY IS DIFFERENT COMPARED WITH THE FOLLOWING PARTS.
  DW2R0102 (SJ112008)

Table-1

<table>
<thead>
<tr>
<th>Contact Part No</th>
<th>Size</th>
<th>Outer Diameter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW1S04K4F1</td>
<td>AWG#22</td>
<td>φ 1.5</td>
<td>Signal Contact</td>
</tr>
</tbody>
</table>

注 1. 本製品はコンタクト別売品であり、適用コンタクトは表１のとおりである。
注 2. 本製品は下記品目と極性キー位置違い品である。
  DW2R0102 (SJ112008)
5. Connector B for Signal (Plug Side)

**Part Number** | **DW2R0102**
---|---
**SJ Drawing** | **SJ112008**

---

**Table-1**

<table>
<thead>
<tr>
<th>Contact Part No</th>
<th>Size</th>
<th>Outer Diameter</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW1S04K4F1 (SJ11310)</td>
<td>AWG#22</td>
<td>φ 1.5</td>
<td>Signal Contact</td>
</tr>
</tbody>
</table>

---

Note 1. CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1.
Note 2. THE POSITION OF THE POLARITY KEY IS DIFFERENT COMPARED WITH THE FOLLOWING PARTS. DW2R0101 (SJ112007)

注1. 本製品はコンタクト別売品であり、適用コンタクトは表1のとおりである。
注2. 本製品は下記品目と極性キー位置違い品である。

---

<table>
<thead>
<tr>
<th>1</th>
<th>INNER HOUSING -B</th>
<th>1</th>
<th>PBT</th>
<th>MATERIAL</th>
<th>COLOR: BLACK</th>
</tr>
</thead>
</table>

---

6. Spacer

<table>
<thead>
<tr>
<th>Part Number</th>
<th>D253-50570</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112009</td>
</tr>
</tbody>
</table>

**NOTE 1.** This product is an optional spacer of DW2R002ZH1.

**NOTE 2.** Month of manufacture.

**NOTE 3.** Year of manufacture.

日本語:

注1. 本製品はDW2R002ZH1の別売スペーサである。
注2. 製造月。
注3. 製造年。
7. Socket Contact for Signal (for Plug)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW1S04K4F1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ111310</td>
</tr>
</tbody>
</table>

![Diagram of socket contact](image)
8. Pin Contact Long for Signal (for Receptacle)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW1P04K4F1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ111311</td>
</tr>
</tbody>
</table>

NOTE 1. THESE CONTACTS ARE SUPPLIED PER REEL. THERE ARE 4,000 CONTACTS PER REEL.
NOTE 2. APPLICABLE WIRE: AWG22 (0.3 mm²). INSULATION OUTER DIAMETER: 0.15 (STRANDED)
NOTE 3. PART NUMBER QUANTITY AS INDICATED
NOTE 4. THE MARK DENOTES TYPE OF THE CONTACT AT THE LOCATION SHOWN.
   A: IS FOR SIGNAL CONTACT, AND 'B' FOR DETECTED CONTACT (SJ111312).
   B: IS FOR SIGNAL CONTACT, AND 'A' FOR DETECTED CONTACT (SJ111312).
NOTE 5. YEAR AND MONTH OF MANUFACTURE SHALL BE SHOWN AT THE LOCATION (LEFT: ONE LAST DIGIT OF YEAR, RIGHT: MONTH 123456789XYZ).
   EX: 102 → MANUFACTURED IN DEC. 2010

注1. 本コンタクトはリール状で供給され、4000(パック)とされる。
注2. 使用電線為AWG22(0.3mm²)相当、被覆外径が1.5の銅線とする。
注3. 図示の位置に品名、数量を記入した製品表が貼られている。
注4. 図示の位置の時はコンタクト(SJ111312)の時はAを表示する。
注5. 図示の位置に製造年月日を表示する。
(左側: 翌年月, 右側: 月123456789XYZ)例: "102" 一製造年月2010年12月

<table>
<thead>
<tr>
<th>PIN CONTACT</th>
<th>COPPER ALLOY</th>
<th>TIN PLATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4000</td>
<td></td>
</tr>
<tr>
<td>2 PAPER TAPE</td>
<td>1 PAPER</td>
<td></td>
</tr>
<tr>
<td>1 MAGAZINE</td>
<td>1 PAPER</td>
<td></td>
</tr>
</tbody>
</table>

9. Pin Contact for Signal Short (for Receptacle)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW1P04K4F2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ111312</td>
</tr>
</tbody>
</table>
Applicable Board Dimensions (for reference)

Receptacle Side

Drawing from connector installed side

Plug Side
DW2 Series

**Receptacle Side**

Connector for Signal

- **DW2P020**
- **DW1P04K4F1**
- **DW1P04K4F2**
- **D253-50570**

*Contact is Reel Part Number*

**Plug Side**

Connector A for Signal

- **DW2R0101**
- **DW1S04K4F1**
- **DW2R0102**

Connector B for Signal

- **DW2P002ZH1**
- **D253-50570**

*Part Numbers and Descriptions*:

- **DW2P020**: Receptacle Side Plug Contact (Short)
- **DW1P04K4F1**: Receptacle Socket Contact (Short)
- **DW1P04K4F2**: Receptacle Socket Contact (Long)
- **D253-50570**: Receptacle Spacer (Floating Area)
- **DW2R0101**: Plug Connector A for Signal
- **DW2R0102**: Plug Connector B for Signal
- **DW1S04K4F1**: Plug Socket Contact for Signal
Technical Documents

<table>
<thead>
<tr>
<th>Technical Document No. (Document Content)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product Drawings</strong></td>
</tr>
<tr>
<td>SJ112004 (DW2 Receptacle)</td>
</tr>
<tr>
<td>SJ112005 (DW2 Plug)</td>
</tr>
<tr>
<td>SJ112006 (DW2 Connector for Signal Receptacle Side)</td>
</tr>
<tr>
<td>SJ112007 (DW2 Connector A for Signal Plug Side)</td>
</tr>
<tr>
<td>SJ112008 (DW2 Connector B for Signal Plug Side)</td>
</tr>
<tr>
<td>SJ112009 (Spacer)</td>
</tr>
<tr>
<td>SJ111310 (DW1 Socket Contact for Signal)</td>
</tr>
<tr>
<td>SJ111311 (DW1 Pin Contact Long for Signal)</td>
</tr>
<tr>
<td>SJ111312 (DW1 Pin Contact Short for Signal)</td>
</tr>
<tr>
<td><strong>Specifications</strong></td>
</tr>
<tr>
<td>JACS-30188</td>
</tr>
<tr>
<td><strong>Handling Instructions</strong></td>
</tr>
<tr>
<td>JAHL-30188</td>
</tr>
<tr>
<td><strong>Crimp Applicator Handling Instructions</strong></td>
</tr>
<tr>
<td>T703488 (for semi-automatic crimping machine)</td>
</tr>
<tr>
<td>*Please contact us regarding automatic crimp tool.</td>
</tr>
<tr>
<td><strong>Hand Crimp Tool Handling Instructions</strong></td>
</tr>
<tr>
<td>T700315</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.

Japan Aviation Electronics Industry, Limited
Product Marketing Division
Aobadai Building, 3-1-19, Aobadai, Meguro-ku, Tokyo 153-8539
Phone: +81-3-3780-2882 FAX: +81-3-3780-2946

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