The DW3 Series is a rack and panel connector with 2 contacts for high-current (150A). It enables the connection of the 2 contacts for power supply and the 24 contacts for signal at once. The DW3 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 DW3 Series is a UL recognized product.

**Features**

- UL Recognized Product: File No. E67741
- High-current: compatible with 150A
- Electrical Shock Prevention: structure that prevents a person’s fingers from touching the terminal.
- Floating Amount: ±2.0mm
- Robust housing integrating complex power supply and signal area.
- Low-profile, compact, possible to be equipped on a 19 inch 1U rack.

- Signal connector can be attached to the main unit using an exclusive jig.
- Signal area has a 2-point contacting structure contact.
- Connection of receptacle side power supply can be made at once using the bus bar.
- Signal contacts in 3 types enable adjustment of 3-step first mate last break mating.

**General Specifications**

- No. of Contacts:
  - 2 pos. (power supply)
  - 24 pos. (signal)
- Rated Current:
  - 150A (power supply)
  - 2A (signal)
- Rated Voltage:
  - 600V (power supply) *Note1
  - 100V (signal)
- Contact Resistance:
  - 0.3mΩ max. (initial) power supply
  - 20mΩmax. (initial) signal
- Durability: 100 times
- Operating Temperature:
  - -25 Deg. C to +105 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

**Series**

**Connector Type**
- R: Receptacle
- P: Plug

**Modification Code**

**Plating of Contact Area**
- H: Ag plating
- F: Sn plating

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

**Applicable Cable Size**
- 4: 22AWG

**Ordering Information**

**Product Code**
- DW3R002ZH1

**Series**

**Connector Type**
- R: Receptacle

**Modification Code**

**No. of Contacts**
- 002: 2 pos. (shown in 3 digit)

**Product Code**
- DW3R012A

**Series**

**Connector Type**
- R: Receptacle
- P: Plug

**Modification Code**

**No. of Contacts**
- 012: 12 pos. (shown in 3 digit)

**Product Code**
- DW3P04K4F1

**Series**

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

**Modification Code**

**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)

**Note 1:** An embossed reel contains 4,000 pcs.
1. Plug (Main Unit)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3P002ZH1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112646</td>
</tr>
</tbody>
</table>

NOTE 1. PRODUCTION LOT NUMBER AND RATED CURRENT/VOLTAGE IS INDICATED AT THIS LOCATION.
NOTE 2. THROUGH HOLE FOR ATTACHMENT SCREW.
- USE SHOULDER BOLT (DWG No. SJ112653) OR M6 SCREW (WITH WASHER) FOR ATTACHMENT SCREW.
- TIGHTEN SHOULDER BOLT BY 5.2[N-m]±0.5[N-m].
- TIGHTEN M6 SCREW BY 2.6[N-m]±0.3[N-m].

NOTE 3. POWER SUPPLY TERMINAL CONNECTION POSITION.
TIGHTEN M6 SCREW BY 5.2[N-m]±0.5[N-m].

NOTE 4. THE ANGLE BETWEEN PANELS IS NOT INCLINING MORE THAN THE TOLERANCE LEVEL OF THE POSITION GAPS (X, Y:±2mm) AND THE DISTANCE (Z:±1.5mm).

4 SPRING PIN  2 STAINLESS STEEL  -  -
3 HEXAGON NUT M6  2 BRASS  NICKEL PLATING  -
2 PIN CONTACT  2 COPPER ALLOY  SILVER PLATING  -
1 BASE HOUSING  1 PBT  COLOR: BLACK  -

注1. 図示の位置に製造番号と定格電流/定格電圧を表示する。
注2. 取り付けねじ用貫通穴
取り付けねじには「M6ねじ（ワッシャ付）」または「ショルダーボルト（図番：SJ112654）」を使用のこと。
- M6ねじ締め付け力：2.6[N-m]±0.3[N-m]。
- M6ねじ締め付け力：5.2[N-m]±0.5[N-m]。
注3. 電源端子接続部・M6ねじ締め付け力：5.2[N-m]±0.5[N-m]。
注4. パネルの角度は位置ずれ（X, Y：±2mm）および距離（Z：±1.5mm）の許容範囲を超えて傾かないこと。
2. Receptacle (Main Unit)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3R002ZH1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112647</td>
</tr>
</tbody>
</table>

**NOTE 1.** PRODUCTION LOT NUMBER AND RATED CURRENT/VOLTAGE AS INDICATED.
**NOTE 2.** THROUGH HOLE FOR ATTACHMENT SHOULDER BOLT (DWG No. SJ112654).
**NOTE 3.** DON'T PUT THE FOREIGN BODY IN THE CONNECTOR MOVABLE RANGE.

注1. 図示の位置に製造ロットと定格電流/定格電圧を表示する。
注2. 取り付けシャルネル用貫通穴
    シャルネル締め付けトルク：5.2[N·m]±0.5[N·m]。
注3. コネクタ移動範囲のため異物を設けないこと。

<table>
<thead>
<tr>
<th>No.</th>
<th>DESCRIPTION</th>
<th>MATERIAL</th>
<th>Finsh</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>SPRING PIN</td>
<td>STAINLESS STEEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>HELICAL EXTENSION SPRING</td>
<td>STAINLESS STEEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>FLOATING CONTACT</td>
<td>COPPER ALLOY</td>
<td>SILVER PLATING</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>FLOATING HOUSING</td>
<td>PBT</td>
<td>COLOR : BLACK</td>
<td>-</td>
</tr>
<tr>
<td>1</td>
<td>BASE HOUSING</td>
<td>PBT</td>
<td>COLOR : BLACK</td>
<td>-</td>
</tr>
</tbody>
</table>
3. Connector A for Signal (Plug Side)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3R012A</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112648</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>DW1S04K4F1(SJ11310)</td>
<td>AWG#22</td>
<td>φ1.5</td>
<td>SOCKET 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 PRODUCT. PRODUCT NAME: DW3R012B, DWG No. SJ112649

**NOTE 3.** THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT. PRODUCT NAME: DW3P002ZH1, DWG No. SJ112646

注1. 本製品はコンタクト別売り品であり、適用コンタクトは表1の通りである。

注2. 本製品は下記製品と極性が位置違い品である。

製品名: DW3R012B、図番: SJ112649

注3. 本製品は下記製品と組み合わせて使用する。

製品名: DW3P002ZH1、図番: SJ112646
4. Connector B for Signal (Plug Side)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3R012B</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112649</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>DW1S04K4F1 (SJ111310)</td>
<td>AWG#22</td>
<td>φ 1.5</td>
<td>SOCKET 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 PRODUCT.
PRODUCT NAME: DW3R012A, DWG No. SJ112648

**NOTE 3.** THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT.
PRODUCT NAME: DW3P002ZH1, DWG No. SJ112646

注1. 本製品はコンタクト別売り品であり、適用コンタクトは表1の通りである。
注2. 本製品は下記製品と極性＋位置違い品である。
製品名: DW3R012A、図番: SJ112648
注3. 本製品は下記製品と組み合わせて使用する。
製品名: DW3P002ZH1、図番: SJ112646
5. Connector A for Signal (Receptacle Side)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3P012A</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112650</td>
</tr>
</tbody>
</table>

**TABLE-1**

<table>
<thead>
<tr>
<th>CONTACT PART No.</th>
<th>SIZE</th>
<th>OUTER DIAMETER</th>
<th>LENGTH: A (FIG. 1)</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>DW3P04K4F1 (SJ112653)</td>
<td>AWG#22</td>
<td>Φ 1.5</td>
<td>20.75</td>
<td>SIGNAL CONTACT</td>
</tr>
<tr>
<td>DW1P04K4F1 (SJ111311)</td>
<td>AWG#22</td>
<td>Φ 1.5</td>
<td>18.25</td>
<td>SIGNAL CONTACT</td>
</tr>
<tr>
<td>DW1P04K4F2 (SJ111312)</td>
<td>AWG#22</td>
<td>Φ 1.5</td>
<td>16.75</td>
<td>DETECTED 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 PRODUCT.

PRODUCT NAME: DW3P012B, DWG No. SJ112651

**NOTE 3.** THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT.

PRODUCT NAME: DW3R002Z1, DWG No. SJ112647

注1. 本製品はコンタクト別売り品であり、適用コンタクトは表1の通りである。
注2. 本製品は下記製品と極性+位置違い品である。 製品名: DW3P012B, 図番: SJ112651
注3. 本製品は下記製品と組み合わせて使用する。 製品名: DW3R002Z1, 図番: SJ112647
6. Connector B for Signal (Receptacle Side)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3P012B</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112651</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TABLE-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTACT PART No.</td>
</tr>
<tr>
<td>DW3P04K4F1 (SJ112653)</td>
</tr>
<tr>
<td>DW1P04K4F1 (SJ111311)</td>
</tr>
<tr>
<td>DW1P04K4F2 (SJ111312)</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 PRODUCT. 
PRODUCT NAME: DW3P012A, DWG No. SJ112650
NOTE 3. THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT. 
PRODUCT NAME: DW3R002ZH1, DWG No. SJ112647

注1. 本製品はコンタクト別売り品であり、適用コンタクトは表1の通りである。
注2. 本製品は下記製品と極性キー位置違います。
製品名: DW3P012A, 図番: SJ112650
注3. 本製品は下記製品と組み合わせて使用する。
製品名: DW3R002ZH1, 図番: SJ112647
7. Bus Bar Cover

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3R002-CV</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112652</td>
</tr>
</tbody>
</table>

![Diagram of bus bar cover](image)

**NOTE 1.** THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT.  
PRODUCT NAME: DW3R002ZH1, DWG No. SJ112647

注1. 本製品は下記製品と組み合わせて使用する。  
製品名: DW3R002ZH1、図番: SJ112647

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS BAR COVER</td>
<td>PBT</td>
<td>COLOR : BLACK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No.</td>
<td>DESCRIPTION</td>
<td>QTY</td>
<td>MATERIAL</td>
<td>FINISH</td>
<td>REMARKS</td>
</tr>
</tbody>
</table>
8. Pin Contact for Signal (for Receptacle)

<table>
<thead>
<tr>
<th>Part Number</th>
<th>DW3P04K4F1</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112653</td>
</tr>
</tbody>
</table>
9. Shoulder Bolt

<table>
<thead>
<tr>
<th>Part Number</th>
<th>D250-50632</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ Drawing</td>
<td>SJ112654</td>
</tr>
</tbody>
</table>

**NOTE 1.** TIGHTEN SHOULDER BOLT BY 5.2[N·m]±0.5[N·m].
注1. ショルダーボルト締め付けトルク: 5.2[N·m]±0.5[N·m]

<table>
<thead>
<tr>
<th>1</th>
<th>SHOULDER BOLT</th>
<th>1</th>
<th>STEEL</th>
<th>TRIVALENT CHROMATE</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>NO.</td>
<td></td>
<td>QTY.</td>
<td>MATERIAL</td>
<td>FINISH</td>
</tr>
</tbody>
</table>

10. 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>

**NOTE 1.** THESE CONTACTS ARE SUPPLIED PER REEL. THERE ARE 4,000 CONTACTS PER REEL.

**NOTE 2.** APPLICABLE MATING PIN: Ø0.64 ± 0.05

**NOTE 3.** APPLICABLE WIRE: AWG22 (0.3mm²) INSULATION OUTER DIAMETER: 1.5 (STRANDED)

**NOTE 4.** PART NUMBER, QUANTITY AS INDICATED

**NOTE 5.** YEAR AND MONTH OF MANUFACTURE SHALL BE SHOWN AT THE LOCATION.

(LEFT: 1ST DIGIT OF YEAR, RIGHT: MONTH 12/2010)

**NOTE 6.** "10Z" → MANUFACTURED IN DEC. 2010

注1. 本コントクトはリール状で供給され、4000[PC/リール]とする。
注2. 拡入ビンは被厚口Ø0.64±0.05とする。
注3. 使用可能AWG22 (0.3mm²) 絶縁外径1.5の絶縁とする。
注4. 図示の位置に品名、数量を設入した現品表が貼られている。
注5. 図示の位置に製造年月日を表示する。
(左側: 製造3桁、4桁目、右側: 月123456789XY2)
例: "10Z" 一製造年月2010年12月。

<table>
<thead>
<tr>
<th>3 SOCKET CONTACT</th>
<th>4000 COPPER ALLOY</th>
<th>TIN PLATE</th>
</tr>
</thead>
<tbody>
<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>
11. Pin Contact Long for Signal (for Receptacle)

Part Number: DW1P04K4F1
SJ Drawing: SJ111311

---

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

---

1. These contacts are supplied per reel. There are 4,000 contacts per reel.
2. Applicable wire: AWG22 (0.3mm²) Insulation outer diameter: 1.5 (Stranded)
3. Part number, quantity as indicated.
4. The mark denotes type of the contact at the location shown. "A" is for signal contact, and "B" for detected contact (SJ111312).
5. Year and month of manufacture shall be shown at the location.

---

<table>
<thead>
<tr>
<th>NOTE1</th>
<th>NOTE2</th>
<th>NOTE3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note 1. These contacts are supplied per reel. There are 4,000 contacts per reel.</td>
<td>Note 2. Applicable wire: AWG22 (0.3mm²) Insulation outer diameter: 1.5 (Stranded).</td>
<td>Note 3. Part number, quantity as indicated.</td>
</tr>
</tbody>
</table>
12. Pin Contact Short for Signal (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>

---

**Note 1:** These contacts are supplied per reel. There are 4,000 contacts per reel.

**Note 2:** Applicable wire: AWG22 (0.3mm²) Insulation outer diameter: 1.5mm (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 (SJ111311), and "B" for detected contact.

**Note 5:** Year and month of manufacture shall be shown at the location. (Left: one last digit of year, right: month 12/2010) Example: "102" "MADE IN DEC. 2010"

---

**Note 1:** 本コンタクトはロール状で供給され、4,000/ロールとします。

**Note 2:** 使用電線を11022（0.3mm²）用、絶縁部外径1.5mmを採用します。

**Note 3:** 設定の位置に品名、数量を記入した現品検査表が添付されています。

**Note 4:** 設定の位置の品はコンタクトの種類を示し、信号コンタクト（SJ111311）の時はA、検出コンタクトの時はBを表示する。

**Note 5:** 設定の位置に製造年月日を表示する。

(左123/右10月12日時：102 "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</td>
<td>PAPER</td>
<td>1 PAPER</td>
</tr>
<tr>
<td>1</td>
<td>MAGAZINE</td>
<td>1 PAPER</td>
</tr>
</tbody>
</table>
Applicable Board Dimensions (for reference)

Receptacle Side

Plug Side
Connection Diagram of Receptacle Side Bus Bar

Connection between batteries using Bus Bar

Connection of the terminal ends using Bus Bar.

Note: By applying bus bar cover electrical shock will be prevented. Also, noise countermeasure for signal cable is taken in to consideration.

Bus Bar Outer Dimensions (for reference)

- Material: pure copper system material
- Surface Finish: Ag plating

L-shaped Bus Bar Outer Dimensions (for reference)

- Material: pure copper system material
- Surface Finish: Ag plating

*Above Dimensions are for reference, please contact us for more information on bus bar.
**Receptacle Side**

- **Shoulder Bolt**
  - D250-50690

- **Connectors**
  - DW3R002ZH1
  - DW3P012B
  - DW3P04K4F1
  - DW3R012A

- **Pin Contacts**
  - DW3P04K4F1
  - DW1P04K4F1
  - DW1P04K4F2

- **Bus Bar Cover**
  - DW3R002-CV

**Plug Side**

- **Connectors**
  - DW3R012A
  - DW3R002ZH1
  - DW3R012B

- **Socket Contact**
  - DW1S04K4F1

- **Pin Contacts**
  - DW3P012B
  - DW3P012A

*Contact is Reel Part Number*
<table>
<thead>
<tr>
<th>Product Drawings</th>
<th>Technical Document No. (Document Content)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SJ112646</td>
<td>(DW3 Plug)</td>
</tr>
<tr>
<td>SJ112647</td>
<td>(DW3 Receptacle)</td>
</tr>
<tr>
<td>SJ112648</td>
<td>(DW3 Connector A for Signal Plug Side)</td>
</tr>
<tr>
<td>SJ112649</td>
<td>(DW3 Connector B for Signal Plug Side)</td>
</tr>
<tr>
<td>SJ112650</td>
<td>(DW3 Connector A for Signal Receptacle Side)</td>
</tr>
<tr>
<td>SJ112651</td>
<td>(DW3 Connector B for Signal Receptacle Side)</td>
</tr>
<tr>
<td>SJ112652</td>
<td>(Bus Bar Cover)</td>
</tr>
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<td>SJ112654</td>
<td>(Shoulder Bolt)</td>
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<tr>
<td>SJ112653</td>
<td>(DW3 Pin Contact for Signal Receptacle Side)</td>
</tr>
<tr>
<td>SJ111310</td>
<td>(DW1 Socket Contact for Signal Plug Side)</td>
</tr>
<tr>
<td>SJ111311</td>
<td>(DW1 Pin Contact Long for Signal Receptacle Side)</td>
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<tr>
<td>SJ111312</td>
<td>(DW1 Pin Contact Short for Signal Receptacle Side)</td>
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| Specifications  | JACS-30260                              |
| Handling Instructions | JAHL-30260                        |
| Crimp Applicator Handling Instructions | T703488 (for semi-automatic crimping machine) |
| * Please contact us regarding automatic crimp tool. |
| Hand Crimp Tool Handling Instructions | T700315                              |

**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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