FWG connector (W to B)

0.5mm pitch

- **Type**
  - Space saving
- **Current rating**
  - 0.3A
- **Voltage rating**
  - 50V

This is crimp style disconnectable connector with 0.5 mm pitch lock for high-speed transmission which can be chosen discrete wires, FPC or FFC depending on usage. By assuming the use of multiple pieces of connector in the vicinity, prevention of mis-mating is provided by 4 kinds of key pattern in each circuit and 4 different colors of housing.

SUH connector

0.8mm pitch

- **Type**
  - Crimp style, Compact type
  - Crimp style, Disconnectable type
- **Current rating**
  - 1.0A
- **Voltage rating**
  - 30V

SUR connector that has been designed for 0.8mm pitch wire-to-board insulation displacement connector. This connector adopted the first crimping method in a minimum 0.8mm pitch of the wire-to-board type connector. Housing lance method provides the good workability and a constriction contact method provides the excellent contact reliability.

APSH connector

1mm pitch

- **Type**
  - Crimp style, With secure locking device
  - Mechanism for preventing the inverted insertion
- **Current rating**
  - 1.0A (AWG#28)
- **Voltage rating**
  - 50V

This connector has the secure locking structure by realizing space saving. It prevents to come off the housing when handling the wire and giving vibration. This connector is very small and it has been controlled inverse insertion and realized clear insertion feeling.

CSH connector

1mm pitch

- **Type**
  - Crimp style, Disconnectable type
- **Current rating**
  - CSH, CS/2A (AWG#26)
- **Voltage rating**
  - 50V

Housing lances
Interchangeability
Realized current rating of 2A with AWG#26

NSH connector

1mm pitch

- **Type**
  - Crimp style, With secure locking device
  - Crimp style, Disconnectable type
- **Current rating**
  - 1.0A (AWG#28)
- **Voltage rating**
  - 50V

1.0mm pitch secure lock type connector. This low insertion force type connector realizes easier mating operation. The basic concept of the contact part of this connector is equivalent to the performance proven SHL connector.

NSHD connector

1mm pitch

- **Type**
  - Crimp style, With secure locking device
  - Crimp style, Disconnectable type
- **Current rating**
  - 1.0A (AWG#28)
- **Voltage rating**
  - 50V

In 1.0mm pitch and dual-row secure lock type connector, this NSHD connector realizes a top grade of a space saving in the industry and supports a high densification of equipment.
SH connector

1mm pitch

- Type
  - Disconnectable type
  - Crimp style, Compact type
- Current rating
  1.0A (AWG#28)
- Voltage rating
  50V

*Compact, low profile design
*Although this shrouded header has locking features for its mating receptacle, there are no holes in the header shroud that would adversely affect vacuum gripping equipment.
*The receptacle has protrusions on both ends for an operator to disengage the receptacle from the header without holding the wires.

SHD connector

1mm pitch

- Type
  - Disconnectable type
  - Crimp style, Compact type, Double-row
- Current rating
  1.0A (AWG#28)
- Voltage rating
  50V

*Compact, double-row design
*Although this shrouded header has locking features for its mating receptacle, there are no holes in the header shroud that would adversely affect vacuum gripping equipment.
*The receptacle has protrusions on both ends for an operator to disengage the receptacle from the header without holding the wires.

SHJ connector

1mm pitch

- Type
  - Crimp style, For LCD back light lamps, With secure locking device
  - Crimp style, Disconnectable type
- Current rating
  1.0A (AWG#28)
- Voltage rating
  125V

This is low profile connector suitable for the backlight connection of the LED liquid crystal display. It has the secure locking structure to prevent to come off the housing when handling the wire.

SHL connector

1mm pitch

- Type
  - Crimp style, Thin type
  - Disconnectable type
- Current rating
  1.0A (AWG#28)
- Voltage rating
  50V

As the equipment becomes thinner and thinner, this is an ultra-thin connector with a mounting height of 1.8 mm, which was developed as a variation of our 1.0 mm pitch connectors.

SHLD connector

1mm pitch

- Type
  - Disconnectable type
  - Crimp style, Compact type, Double-row
- Current rating
  1.0A (AWG#28)
- Voltage rating
  50V

*Compact, double-row design
Mounting height is 5.5mm for side entry type. Just fitting to the high density packaging
*Line-up the type with Secure locking device
Secure locking device prevents accidental disconnection.

SHLV connector

1mm pitch

- Type
  - For LVDS, Double-row
- Current rating
  1.0A (AWG#28)
- Voltage rating
  30V

This is the wire to board connector corresponding to the high frequency transmission (LVDS: Low Voltage Differential Signaling) with a lot of adoption for PDP, LCD-TV and so it.
This connector was developed to have excellent workability, strength and cost performance.
This connector is used not only for LVDS, but also for multi-circuits connector (small and space saving type) in normal circuit.
SFG connector

1.1mm pitch

- **Type**
  - Crimp style, For LCD backlight lamps, With secure locking device
- **Current rating**
  - 1.0A (AWG#28)
- **Voltage rating**
  - 200V

This SFG connector is a wire-to-board connector compatible with small space. It is used for power supply of LED backlight in Liquid Crystal Display Television set.

ACH connector

1.2mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, Compact type, Low-profile type
- **Current rating**
  - 2A/1to3-circuit (AWG#28)
  - 1.5A/4,5-circuit (AWG#28)
- **Voltage rating**
  - 50V

This connector is compact and low profile type, height 1.4mm and width 4.3mm, 1.2mm pitch wire-to-board connector.

ACHF Connector

1.2mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, Compact type, Low-profile type
- **Current rating**
  - 2.5A (AWG#28)
  - (4,6 1.0A)
- **Voltage rating**
  - 50V

This ACHF connector is compact and low profile type, height 1.43mm and width 4.95mm, 1.2 pitch wire-to-board connector.

ACHL connector

1.2mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, Compact type, Low-profile type
- **Current rating**
  - 2A (AWG#28)
- **Voltage rating**
  - 50V

This connector is compact and low profile type, height 1.2mm and width 4.7mm, 1.2mm pitch wire-to-board connector.

AGH connector

1.25mm pitch

- **Type**
  - Disconnectable type
  - For mobile phones, For a battery connection
- **Current rating**
  - 1.0A
- **Voltage rating**
  - 50V

This connector system has excellent operational advantages due to its top entry style. In addition, with the wires on the side, it is low profile, similar to a side entry style.

GERD connector

1.25mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, Double-row, With secure locking device
- **Current rating**
  - 1.5A (AWG#26)
  - 1.0A (AWG#28)
  - 0.8A (AWG#30)
- **Voltage rating**
  - 50V

In order to correspond to the high-density PC board designing, this GERD connector is designed as 1.25 mm pitch Dual row type connector. The full lineup of 10 to 40 circuits for top and side entry types is provided. Its operability is very well, despite the small size connector with tin-plated.
### GEZ connector

< Type >
- Crimp style, Disconnectable type

< Current rating >
- 1.5A (AWG#26)
- 1.0A (AWG#28)
- 0.8A (AWG#30)

< Voltage rating >
- 50V

GEZ connector has been developed for the market of Pachislot & Pachinko Machines. This connector contact is interchangeable with the Dual row type GEZD connector, and this low insertion force type contact enables connector mating operation easier.

### GH connector

< Type >
- Disconnectable type
- Crimp style, With secure locking device

< Current rating >
- 1.0A (AWG#26)

< Voltage rating >
- 50V

Developed for PDP, LCD or small electronics equipments. This low insertion force type connector realizes easier mating operation. The basic concept of the contact part of this connector is equivalent to the performance proven SHL connector.

### GHD connector (Gold-plated product)

< Type >
- Disconnectable type
- Crimp style, Double-row, With secure locking device

< Current rating >
- 1.0A (AWG#26)

< Voltage rating >
- 50V

To meet the requirement of the high density mounting on PC board of flat panel TV, AV equipments etc., this connector is designed to the double-row type of 1.25mm pitch. Its operability is very well, in spite of the small size.

### GHD connector (Tin-plated product)

< Type >
- Disconnectable type
- Crimp style, Double-row, With secure locking device

< Current rating >
- 1.25A (AWG#26)
- 1.0A (AWG#28)
- 0.8A (AWG#30)

< Voltage rating >
- 50V

In order to correspond to the various high-density PC board designing, this GHD connector is designed as a 1.25mm pitch double row type connector. Provide a full lineup of 10 to 40 circuits for top and side entry types. (8 circuits is currently planned.) Its operability is very well, in spite of the small size with tin-plated.

### GVH connector

< Type >
- Crimp style, With secure locking device

< Current rating >
- 1.0A (AWG#26)

< Voltage rating >
- 50V

This connector has the sucking area on the top of connector without suction tape. The side feed type for drawing out the wire laterally that considers the workability of mating and normal side entry type has been developed.

### ADH Connector

< Type >
- Crimp style, Disconnectable type
- Crimp style, Compact type, Low-profile type

< Current rating >
- 3A (Apply only 1A for the 3rd circuit of 5-circuit) (AWG#26)

< Voltage rating >
- 30V

This ADH connector is compact and low profile type, height 1.9mm and width 4.3mm, 1.3 pitch wire-to-board connector.
### CZH/CZHW connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Disconnectable type</td>
<td>2A (AWG#26)</td>
<td>100V</td>
</tr>
<tr>
<td>- Crimp style, Compact type</td>
<td>2A (AWG#26)</td>
<td>100V</td>
</tr>
</tbody>
</table>

These are the crimp type sockets that share the 1.5 mm pitch insulation displacement type CZ/CZW connectors Header and the holder with dual-row socket. More complicated harness can be designed with these sockets.

### RTZ connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Drawer connector, Double-row</td>
<td>2.0A (AWG#24)</td>
<td>50V</td>
</tr>
<tr>
<td>- Crimp style, Disconnectable type</td>
<td>2.0A (AWG#24)</td>
<td>50V</td>
</tr>
</tbody>
</table>

This RTZ connector is a drawer connector with floating mechanism which makes design of equipment easy. Correspond to the miniaturization of equipment by realizing the downsizing and the space saving with 1.5mm pitch and the distance of 19.9mm at the minimum between board and panel.

### ZE connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Crimp style, With secure locking device</td>
<td>2A (AWG#24)</td>
<td>100V</td>
</tr>
</tbody>
</table>

1.5mm pitch secure lock type connector. Fork-shaped header contact provides the good mating feeling and secure mating operation.

### ZH connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Disconnectable type</td>
<td>1.0A (AWG#26)</td>
<td>50V</td>
</tr>
</tbody>
</table>

*Housing lances
*The dimple at the center of the contact ensures positive contact and low contact resistance at all times.
*Fully shrouded header
*The same shrouded header can be used for the ZR insulation displacement connector.

### ZND connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Crimp style, With secure locking device</td>
<td>2A/10 to 30 circuits (AWG#24)</td>
<td>100V</td>
</tr>
<tr>
<td>- Crimp style, Double-row, With secure locking device</td>
<td>2A/10 to 30 circuits (AWG#24)</td>
<td>100V</td>
</tr>
</tbody>
</table>

This is the potting treatment compatible type 1.5 mm pitch double rows SMT mountable crimping connector with secure locking mechanism, corresponding to the high-density board design. Excellent mating feeling is prepared, and it provides the certain mating operation.

### ZPD connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Crimp style, Double-row, With secure locking device</td>
<td>2A/10 to 30 circuits (AWG#24)</td>
<td>100V</td>
</tr>
</tbody>
</table>

In order to correspond to the high-density PCB designing, this ZPD connector is designed as 1.5mm pitch double row type connector with secure locking device.
### LEA connector

**1.8mm pitch**

- **Type**
  - Crimp style, Disconnectable type
  - Crimp style, Compact type, With secure locking device
- **Current rating**
  - 3A
- **Voltage rating**
  - 300V

Considering that the connector does not affect the luminescence angle of LED chip, this low profile type connector (height: 3.0 mm) is designed for connection to LED lamp and realized space saving. A secure locking mechanism is arranged to this connector in order to consider the handling of wire in actual use, although this is a low profile.

### SFH connector

**1.8mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, Compact type, Low-profile type
- **Current rating**
  - 4A (AWG#22)
- **Voltage rating**
  - 350V

This low profile type connector with height of 3.0mm is designed for connection to stroboscope flash and realized space saving.

### SFK connector

**1.8mm pitch**

- **Type**
  - Crimp style, With secure locking device
- **Current rating**
  - 4A (AWG#22)
- **Voltage rating**
  - 350V

This SFK connector is a wire-to-board connector for connecting power supply and PCB and withstands high voltage. It is used for power supply of LED backlight in Liquid Crystal Display Television set.

### JWPF connector (W to B)

**2mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, Waterproof connector
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - 100V

This is JWPF connector can be used for the place of which especially waterproof is required. This is the wire-to-board connector that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).

### PA connector

**2mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, With secure locking device
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - Standard type: 250V
  - Retainer mountable type: 100V

This is a crimp type board-to-wire connector that is the core one of 2.0 mm pitch PA family connectors with secure locking device.

### PA connector (High box type)

**2mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, High-box type
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - Standard type: 250V
  - Retainer mountable type: 100V

This is PA connector high-box type and also mates with PAF connector (socket) of insulation displacement type.
### PAD connector

<table>
<thead>
<tr>
<th>2mm pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>- Disconnectable type</td>
</tr>
<tr>
<td>- Crimp style, Double-row, With secure locking device</td>
</tr>
<tr>
<td><strong>Current rating</strong></td>
</tr>
<tr>
<td>3A (AWG#22)</td>
</tr>
<tr>
<td><strong>Voltage rating</strong></td>
</tr>
<tr>
<td>250V</td>
</tr>
</tbody>
</table>

2.0mm pitch double-row connector with secure locking device

*Secure locking device*

The housing has a locking device to securely hold the header, preventing accidental disconnection because of external forces that might result from the routing of wires during assembly process or of vibration.

### PBD connector

<table>
<thead>
<tr>
<th>2mm pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>- Disconnectable type</td>
</tr>
<tr>
<td>- Crimp style, Double-row</td>
</tr>
<tr>
<td>- Crimp style, With secure locking device</td>
</tr>
<tr>
<td><strong>Current rating</strong></td>
</tr>
<tr>
<td>3A</td>
</tr>
<tr>
<td><strong>Voltage rating</strong></td>
</tr>
<tr>
<td>100V</td>
</tr>
</tbody>
</table>

*Secure locking structure*  ・Sucking area on header  ・High reliability contact  ・Side entry dual-row type  ・Applicator is interchangeable with those of the PHD connector contact.

### PBV connector

<table>
<thead>
<tr>
<th>2mm pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>- Disconnectable type</td>
</tr>
<tr>
<td>- Crimp style, High-box type</td>
</tr>
<tr>
<td><strong>Current rating</strong></td>
</tr>
<tr>
<td>3A (AWG#22)</td>
</tr>
<tr>
<td><strong>Voltage rating</strong></td>
</tr>
<tr>
<td>250V</td>
</tr>
</tbody>
</table>

This PBV connector, which is mainly used for connecting PCB of flat television, is a crimping type connector and is designed to have a secure locking structure and a sucking area.

### PH connector

<table>
<thead>
<tr>
<th>2mm pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>- Disconnectable type</td>
</tr>
<tr>
<td>- Crimp style, Thin type</td>
</tr>
<tr>
<td><strong>Current rating</strong></td>
</tr>
<tr>
<td>2A (AWG#24)</td>
</tr>
<tr>
<td><strong>Voltage rating</strong></td>
</tr>
<tr>
<td>100V</td>
</tr>
</tbody>
</table>

It is designed to meet the demand for the high-density connection of internal wires to PC boards. It is compact, highly reliable and low in cost.

### PH connector (High box type)

<table>
<thead>
<tr>
<th>2mm pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>- Disconnectable type</td>
</tr>
<tr>
<td>- Crimp style, High-box type</td>
</tr>
<tr>
<td><strong>Current rating</strong></td>
</tr>
<tr>
<td>2A (AWG#24)</td>
</tr>
<tr>
<td><strong>Voltage rating</strong></td>
</tr>
<tr>
<td>100V</td>
</tr>
</tbody>
</table>

PH connector high box type, with 17 mm mounting height and with 4.5 mm thickness.

### PHD connector

<table>
<thead>
<tr>
<th>2mm pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
</tr>
<tr>
<td>- Disconnectable type</td>
</tr>
<tr>
<td>- Crimp style, Double-row</td>
</tr>
<tr>
<td><strong>Current rating</strong></td>
</tr>
<tr>
<td>3A (AWG#22)</td>
</tr>
<tr>
<td><strong>Voltage rating</strong></td>
</tr>
<tr>
<td>250V</td>
</tr>
</tbody>
</table>

*Double-row construction*  ・The box contact supplies stable contact performance.  ・Fully shrouded header
**PID connector**

- **Type**
  - Mechanism for detecting half mating
  - Crimp style, With secure locking device
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - 250V

This PID connector is a 2.0mm pitch box type wire-to-board connector with secure lock device, and it has the mechanism for detecting half mating, which is possible to judge electrically whether its state is the complete or incomplete mating by the circuit of detecting half mating provided at the center part of connector.

**PLI connector**

- **Type**
  - Crimp style, Compact type,
  - Crimp style, Low-profile type
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - 100V

This PLI connector is 2.0mm pitch low profile type board-to-wire connector that has a mechanism to prevent an incomplete mating when mating connector.

**PND connector**

- **Type**
  - Disconnectable type
  - Crimp style, With secure locking device
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - 250V

This connector is the high-density dipping type connector with secure lock for wire to board connection and enabled to achieve excellent workability and withstand the unexpected external force.

**PNI connector**

- **Type**
  - Crimp style, With inertia force mechanism with secure locking device, Compact type
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - 100V

This is a 2.0mm pitch wire-to-board connector, having incomplete mating prevention mechanism.

**PNI connector (High box type)**

- **Type**
  - Crimp style, Disconnectable type
  - Crimp style, High-box type, With locking device
- **Current rating**
  - 3A
- **Voltage rating**
  - 100V

This is a board-to-wire connector with secure locking device that has been designed to 2mm pitch high box type, with a mounting height of 19.95mm (including retainer) and 6.65mm in depth. Low insertion force type contact is adopted and it provides excellent operability. Retainer is available as usage.

**PUD connector**

- **Type**
  - Crimp style, Disconnectable type
  - Crimp style, High-box type, With locking device
- **Current rating**
  - 3A (AWG#22)
- **Voltage rating**
  - 250V

This is a board-to-wire connector with secure locking device that has been designed to 2.0mm pitch, crimping style and double-row. In spite of realizing low insertion force, the stable electric connection is demonstrated against the condition such as vibration, pinching and dry circuit. It is possible to unfasten the locking even if the header is surrounded with a case wall within height of header because the tip of locking device in receptacle does not protrude from its area.
SFV connector

2mm pitch

- **Type:** Crimp style, With secure locking device
- **Current rating:** 1.0A (AWG#28)
- **Voltage rating:** 300V

This SFV connector is a wire-to-board connector for connecting power supply and PCB and withstands high voltage. It is used for power supply of LED backlight in Liquid Crystal Display Television set.

JFA connector J1000 Series (W to B)

2.2mm pitch

- **Type:** Interlock type
- **Current rating:** 6.4A (3 circuits/AWG#18)
- **Voltage rating:** 125V:J1100series 250V:J1800series

Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general. In spite of various kinds of housings available, their contact are designed to be common. The applicable tooling can be standardized.

BHL connector

2.3mm pitch

- **Type:** Disconnectable type
- For LCD back light lamps, Compact type, Low-profile type
- **Current rating:** 1.0A (AWG#24)
- **Voltage rating:** 1400V

This is wire-to-board connector for LCD backlight power supply. The board occupied area is smaller than our BHS connector designed for the same purpose, and the mounting height is 13% lower than the BHS, achieving 2.8 mm.

EH connector

2.5mm pitch

- **Type:** Disconnectable type
- **Current rating:** 3A (AWG#22)
- **Voltage rating:** 250V

It is designed to meet the demand for the high-density connection of internal wires to PC boards.

HR connector (Crimp style)

2.5mm pitch

- **Type:** Disconnectable type
- **Current rating:** 3A (AWG#22)
- **Voltage rating:** 250V

*Thin design
*The dimple in the contact ensures positive contact.
*The same header can be used for either the HR insulation displacement connector or the EH crimp style connector.

JFA connector J2000 series (W to B)

2.5mm pitch

- **Type:** Disconnectable type
- **Current rating:** MAX 4.6A (3 circuits/AWG#20)
- **Voltage rating:** 250V

2.5mm pitch connector for miniaturization of electronic equipment. Center locking or side locking options can be used depending on the required application. Receptacle contacts are designed to be common with all JFA connector J2000 series.
LEX connector

2.5mm pitch

- Crimp style, Disconnectable type
- Crimp style, With secure locking device

< Current rating >
3A (AWG#22)

< Voltage rating >
300V

Considering about luminescence property of LED package, this LEX connector is designed as low profile bottom type connector for LED lighting equipment, and achieves the space saving at the connector mounting side. In consideration of connector mating operation, secure lock and mechanism for preventing wrong insertion are provided. With the assumption that the load may be applied to the soldering part when mating the connector, the strength of soldering part after mounting the connector on PCB has been largely improved.

NH connector

2.5mm pitch

- Disconnectable type
- Crimp style, With secure locking device

< Current rating >
3A (AWG#22)

< Voltage rating >
250V

*The protected, folded beam contact provides high contact pressure with an over-stress stop feature.
*Double-sided contact
*Molded-in header with wide, sturdy posts
*The header is available in three configurations, top, side and bottom entry.

PXA connector

2.5mm pitch

- Disconnectable type
- Crimp style, With secure locking device

< Current rating >
3A (AWG#22)

< Voltage rating >
250V

Secondary retainer mountable 2.5mm pitch high-box type, with 20.5mm mounting height. Fully shrouded header has the walls between every circuit to consider as the structure against vibration or prying.

XA connector (High box type)

2.5mm pitch

- Disconnectable type
- Crimp style, High-box type, With locking device

< Current rating >
3A (AWG#22)

< Voltage rating >
250V

The header is tall and fully shrouded so as to prevent the resin used to coat the PC board coming into contact with the mating pins. Designed for use specifically with resin coated (“potted”) PC boards.
*The header is designed to accept XA mating receptacles.
*Secure locking device prevents accidental disconnection.

XA connector (Wire-to-Board)

2.5mm pitch

- Disconnectable type
- Crimp style, With secure locking device

< Current rating >
3A (AWG#22,#20)

< Voltage rating >
250V

*Secure locking device prevents accidental disconnection.
*Header wafer is made of solder crack preventive material, glass-filled PA66 nylon.
*Header pins are round and reflow-treated, which provides low insertion force.
*Shrouded headers on radial-tape are also available.
*Headers with polarizing bosses are also available.

XAD connector (Wire-to-Board)

2.5mm pitch

- Disconnectable type
- Crimp style, Double-row, With secure locking device

< Current rating >
3A (AWG#20)

< Voltage rating >
250V

*Double-row construction
*Header wafer is made of solder crack preventive material, glass-filled PA66 nylon.
*Secure locking device prevents accidental disconnection.
**XAG connector (Wire-to-Board)**

2.5mm pitch

- **< Type >**
  - Crimp style, With secure locking device
- **< Current rating >**
  3A (AWG#20)
- **< Voltage rating >**
  250V

This is a 2.5mm pitch, crimp style, wire-to-board connector.

---

**XH connector**

2.5mm pitch

- **< Type >**
  - Disconnectable type
  - Crimp style, Shrouded header type
- **< Current rating >**
  3A (AWG#22)
- **< Voltage rating >**
  250V

This connector was developed based on the high reliability and versatility of our NH series connectors. The connector is very small with mounting height of 9.8mm.

---

**XH connector (High box type)**

2.5mm pitch

- **< Type >**
  - Disconnectable type
  - Crimp style, High-box type
- **< Current rating >**
  3A (AWG#22)
- **< Voltage rating >**
  250V

The header is tall and fully shrouded so as to prevent the resin used to coat the PC board coming into contact with the mating pins. Designed for use specifically with resin coated ("potted") PC boards.

- The header is designed to accept XH mating receptacles.

---

**XM connector (High box type)**

2.5mm pitch

- **< Type >**
  - Disconnectable type
  - Crimp style, High-box type, With inner type secure locking device
- **< Current rating >**
  3A (AWG#22, #20)
- **< Voltage rating >**
  250V

High-box type XM connector with 8.9mm depth and 2.0mm height after assembly.

---

**XNI connector**

2.5mm pitch

- **< Type >**
  - Crimp style, With secure locking device
  - Inertial lock structure
- **< Current rating >**
  3A (AWG#22)
- **< Voltage rating >**
  250V

This connector is 2.5mm pitch wire-to-board connector that has a mechanism to prevent an incomplete mating by utilizing the inertial force when mating connector. In all circuits of connector, controlled key for preventing mismatching of mating is added.

---

**RA connector crimp style**

2.54mm pitch

- **< Type >**
  - Disconnectable type
  - Crimp style, I/O connector
- **< Current rating >**
  1.0A (AWG#22)
- **< Voltage rating >**
  300V

Crimp style receptacles that are designed to mate with headers conforming to MIL-C-83503.

- Housing lances
- The guide devices of both housing and header prevent reverse connector insertion.
**RE connector**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.54mm</td>
<td>Disconnectable type, Internal</td>
<td>2A (AWG#24)</td>
<td>250V</td>
</tr>
</tbody>
</table>

Well suited for completing the internal connections of office automation equipment, such as personal computers, office computers, and their peripheral devices.

*Double-leaf spring contact withstands the stresses caused by repeated mating and unmating.*

---

**RF connector**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.54mm</td>
<td>Disconnectable type, Internal</td>
<td>2A (AWG#24)</td>
<td>250V</td>
</tr>
</tbody>
</table>

Well suited for completing the internal connections of office automation equipment, such as personal computers, office computers, and their peripheral devices.

*Double-leaf spring contact withstands the stresses caused by repeated mating and unmating.*

---

**BNI connector**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3mm</td>
<td>Inertial lock structure</td>
<td>4A (AWG#20)</td>
<td>300V</td>
</tr>
</tbody>
</table>

This is a 3.3 mm pitch wire-to-board connector, having incomplete mating prevention mechanism when mating connector.

3 type key patterns prevent mismatching insertion when using multiple pieces of connector in the same model.

---

**BD connector (3.5mm pitch)**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5mm</td>
<td>Disconnectable type, For LCD back light lamps, With secure locking device</td>
<td>1.0A (AWG#24)</td>
<td>1400V</td>
</tr>
</tbody>
</table>

Board-to-wire connector with high withstanding voltage, used for power supply of LCD (Liquid Crystal Display) back light.

---

**BHS connector (W to B)**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.5mm</td>
<td>Disconnectable type, For LCD back light lamps, Compact type</td>
<td>1.0A (AWG#24)</td>
<td>1400V</td>
</tr>
</tbody>
</table>

Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

*SMT configuration

*Its crimp style contact can be inserted into the housing with little force, thus making them suitable for use with flexible wires such as those insulated with silicone rubber.*

---

**JFA connector J300 series (W to B 3.81mm pitch)**

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current rating</th>
<th>Voltage rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.81mm</td>
<td>Disconnectable type, For LCD back light lamps</td>
<td>15A (Single circuit/AWG#14)</td>
<td>250V</td>
</tr>
</tbody>
</table>

Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general.
HL connector (W to B)

3.96mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, Shrouded header type, With inner type secure locking device

- **Current rating**
  - 7A (4 circuits/AWG#18)
  - 10A (1 circuits/AWG#16)

- **Voltage rating**
  - 300V

The HL connectors can be used for wire-to-wire or wire-to-board connections.
* The inner-housing lock secures the plug to the receptacle and prevents accidental disconnection.
* Secondary retainers (optional)

VH connector

3.96mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, Compact type, With locking device

- **Current rating**
  - 10A (AWG#16)

- **Voltage rating**
  - 250V

This small, field-proven connector for PC boards is reliable and has a large current carrying capacity. It can be used with a wide variety of signal, power supply, and output circuits that appear in consumer electronic products.

VH connector (High box type)

3.96mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, High-box type, With locking device

- **Current rating**
  - 7A (AWG#18)
  - 10A (1 circuits/AWG#16)

- **Voltage rating**
  - 250V

The header is tall and fully shrouded so as to prevent the resin used to coat the PC board coming into contact with the mating pins. Designed for use specifically with resin coated (“potted”) PC boards. The header is designed to accept VH mating receptacles.
* The housing has a lock mechanism which prevents the connector from coming loose due to vibration. The mechanism also prevents misinsertion.

VU connector

3.96mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, With secure locking device

- **Current rating**
  - 5A (AWG#18)

- **Voltage rating**
  - 250V

VU connector is small type 3.96mm pitch PC board connector for large current and has the high reliability in a power supply circuit, considering the fully shrouded connector header structure against “vibrating connector” and “distorded extraction”.

BH connector (4.0mm pitch)

4mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, For LCD back light lamps

- **Current rating**
  - 1.0A (AWG#22)

- **Voltage rating**
  - 600V

Low profile connectors with high withstand voltage, designed for connecting liquid crystal display back light lamps to their starters.
* SMT configuration
* Its crimp style contact can be inserted into the housing with little force, thus making them suitable for use with flexible wires such as those insulated with silicon rubber.

JWPS connector (W to B)

4mm pitch

- **Type**
  - Crimp style, Disconnectable type
  - Crimp style, Waterproof connector

- **Current rating**
  - 4A (AWG#22)
  - 5A (AWG#20)
  - 6A (AWG#18)

- **Voltage rating**
  - 300V

This JWPS connector can be used for the place of which especially waterproof is required. This is the wire-to-board connector that is grade 7 ingress protection of JIS C 0920 (IPX7 of IEC 60529).
### PSI connector

**4mm pitch**

- **Type**
  - Crimp style, With secure locking device
  - Crimp style, High current rating
- **Current rating** 12A
- **Voltage rating** 300V

This PSI connector is designed for wire-to-board and wire-to-wire 4.0mm pitch connector. Low insertion force type contact is adopted and it provides excellent operability. This connector has the secure locking device that has the mechanism for preventing the inverse insertion. By adopting key shape and multi colors of housing, prevention function of mis-mating is considered.

### DV connector

**5mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, Polarization by pin arrangement, With locking device
- **Current rating** 5A (AWG#20)
- **Voltage rating** 250V

One position has a different pitch than the others. This provides the connector with polarization and prevents misinsertion.

*Two-point contact
Each contact has two wiping areas which ensure stable and reliable connection.

*Housing lances

### HYV connector

**5mm pitch**

- **Type**
  - Disconnectable type
  - Inertial lock structure
- **Current rating** 10A
- **Voltage rating** 300V

This HYV connector is 5.0 mm pitch wire-to-board type connector and has the mechanism to suppress the incomplete mating in mating operation. Box-shaped contact to prevent the influence by external forces, thereby increasing safety of large current circuit connection. 4 type key patterns prevents mismatching insertion when using multiple pieces connector in the same model.

### NV connector

**5mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, With locking device
- **Current rating** 10A (AWG#16)
- **Voltage rating** 250V

Suitable for a wide range of applications, from low-voltage, low-current signal circuits to power supply circuits requiring large currents.

### SV connector

**5mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style
- **Current rating** 5A (AWG#20)
- **Voltage rating** 250V

The directional features of the housing prevent reverse contact insertion.

*The housings with two or four circuits have locking mechanisms. This feature provides polarization and prevents misinsertion.

### V connector

**5mm pitch**

- **Type**
  - Disconnectable type
  - Crimp style, Polarization by pin arrangement
- **Current rating** 5A (AWG#20)
- **Voltage rating** 250V

One position has a different pitch than the others. This provides the connector with polarization and prevents misinsertion.

*Two-point contact
Each contact has two wiping areas which ensure stable and reliable connection.
### WPJ connector (W to B)

- **5mm pitch**
- **Type**
  - Crimp style
  - Disconnectable type
- **Current rating**
  - 7A (AWG#18)
- **Voltage rating**
  - 300V

Compact, Water Resist and Durable. This connector for electrical connection can be used on both waterproof and non-waterproof conditions, depending on usage. Just by placing a rubber part will change it into a water resistant connector. Both conditions are using the same header.

### XL connector (W to B)

- **5mm pitch**
- **Type**
  - Disconnectable type
  - Crimp style, With locking device
- **Current rating**
  - 10A (2 circuits/AWG#16)
- **Voltage rating**
  - 150V

The reliable XL connectors have been developed by utilizing the technology of JST's field proven VH and SM connectors. The XL connectors are being used in electric appliances, vending machines, and office automation equipment.

### JFA connector J300 series (W to B 5.08mm pitch)

- **5.08mm pitch**
- **Type**
  - Disconnectable type
  - Crimp style
- **Current rating**
  - 15A (Single circuit/AWG#14)
- **Voltage rating**
  - 600V

Connectors for signal circuit or power supply circuit, applicable to the factory automation, heavy electric machinery, and other industrial equipment in general.

### LC connector

- **5.08mm pitch**
- **Type**
  - Disconnectable type
  - Crimp style, Secondary power supply for OA equipments
- **Current rating**
  - 7A (AWG#18)
- **Voltage rating**
  - 250V

This connector is suited for bringing power to PC boards in office automation equipment. A major application has been in secondary power supply circuits of floppy disk drives.

*The plug and header are polarized, thus preventing misinsertion of the connector.*

### LC connector L type

- **5.08mm pitch**
- **Type**
  - Disconnectable type
  - Crimp style, Secondary power supply for OA equipments
- **Current rating**
  - 5A (AWG#20)
- **Voltage rating**
  - 250V

This connector is for the secondary power circuit used in the office automation equipment, such as the 3.5inch HDD and MO, including the DVD.

### VB connector

- **5.08mm pitch**
- **Type**
  - Disconnectable type
  - Crimp style
- **Current rating**
  - 7A (AWG#18)
- **Voltage rating**
  - 250V

This large current carrying capacity connector can be used with primary power supply circuits of consumer electronic products and various other circuits requiring large currents.

*Box-shaped contact*
Crimp Style Connectors (Wire-to-Board type)

BHT connector (W to B)

5.1mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, For LCD back light lamps, Low-profile type
- **Current rating**
  - 1.0A (AWG#24)
- **Voltage rating**
  - 1500V

Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

---

JFA connector J4000 Series (W to B 6.0mm pitch)

6mm pitch

- **Type**
  - Disconnectable type
  - Crimp style
- **Current rating**
  - 20A (3 circuits/AWG#12)
- **Voltage rating**
  - 600V

Compact and high current capacity connector. This connector realizes high-density mounting on PC board.

---

VL connector (W to B)

6.2mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, High current rating, With inner type secure locking device
- **Current rating**
  - 20A (2 circuits/AWG#12)
- **Voltage rating**
  - 600V

This VL connector is 6.2 mm pitch wire-to-wire and wire-to-board connector, designed for large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.

---

VL connector HIGH CURRENT TYPE (W to B)

6.2mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, High current rating
- **Current rating**
  - 23A (2 circuits/AWG#12)
- **Voltage rating**
  - 600V

This VL connector is 6.2 mm pitch wire-to-board connector. The connector suitable for the high current has been realized by using highly-conducting material.

---

JFA connector J4000 Series (W to B 6.35mm pitch)

6.35mm pitch

- **Type**
  - Disconnectable type
  - Crimp style
- **Current rating**
  - 20A (3 circuits/AWG#12)
- **Voltage rating**
  - 600V

Compact and high current capacity connector. This connector realizes high-density mounting on PC board.

---

VYH connector

6.5mm pitch

- **Type**
  - Disconnectable type
  - Crimp style, High current rating
- **Current rating**
  - 15A (2 circuits/AWG#14)
- **Voltage rating**
  - 300V

This connector is designed for wire-to-board 6.5mm pitch connector corresponding to large current. Secondary retainer, which prevents from insufficient insertion of contact and coming off contact, may use and large current circuit can be connected certainly and safety.
VA connector

7.92mm pitch

- Disconnectable type
- Crimp style, With locking device
- Current rating: 7A (AWG#18)
- Voltage rating: 250V

This large current carrying capacity connector can be used with primary power supply circuits of consumer electronic products and various other circuits requiring large currents.

VAJ connector

7.92mm pitch

- Disconnectable type
- Crimp style, High current rating, With locking device
- Current rating: 10A (AWG#16)
- Voltage rating: 250V

This large current carrying capacity connector, that is best suited for various kinds of power supply circuits. Box-shaped contacts offer reliable connection.

BH connector (8.0mm pitch)

8mm pitch

- Disconnectable type
- Crimp style, For LCD back light lamps
- Current rating: 1.0A (AWG#22)
- Voltage rating: 600V

Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

LV connector

8mm pitch

- Disconnectable type
- Crimp style
- Current rating: Standard type/5A(AWG#20)
- Low insertion force type/7A(AWG#18)
- Voltage rating: 250V

This connector can be connected to headers having 2.36mm diameter pins.

PSI connector (High Current Specification D Type)

8mm pitch

- Crimp style, With secure locking device
- Crimp style, High current rating
- Current rating: 15A (3-circuit without the 2nd pin)
- Voltage rating: 600V

This is a board-to-wire connector. Low insertion force type contact is adopted and it provides excellent operability. This connector has the secure locking device that has the mechanism for preventing the inverse insertion. The connector suitable for the large electric current was realized by using highly-conducting material. By adopting key shape and multi colors of housing, prevention function of mis-mating with conventional PSI connector is considered.

JFPS connector

8.8mm pitch

- Crimp style, Compact type
- Crimp style, Compact type, With secure locking device
- Current rating: 35A (2-circuit: AWG#10)
- Voltage rating: 600V

Small type connector for large current. This connector corresponds the rated current of 35A at 2 circuits and is a top entry type board-to-wire connector.
### VT connector

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current Rating</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.88mm</td>
<td>Disconnectable type, Crimp style, With locking device</td>
<td>12A (AWG#16)</td>
<td>250V</td>
</tr>
</tbody>
</table>

Can be connected to vinyl insulated flat cables (such as SPT, HVFF) ranging from AWG #20 to 16 which are used for primary sides of power circuits.

*PC board locking device makes temporary mounting and correct positioning onto the board easy.  
*Misinsertion preventive construction and arm-lock mechanism.

### BH connector (12.0mm pitch)

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current Rating</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>12mm</td>
<td>Disconnectable type, Crimp style, For LCD back light lamps</td>
<td>1.0A (AWG#22)</td>
<td>600V</td>
</tr>
</tbody>
</table>

Low profile connectors with high withstanding voltage, designed for connecting liquid crystal display back light lamps to their starters.

*SMT configuration  
*Its crimp style contact can be inserted into the housing with little force, thus making them suitable for use with flexible wires such as those insulated with silicone rubber.

### BD connector (13mm pitch)

<table>
<thead>
<tr>
<th>Pitch</th>
<th>Type</th>
<th>Current Rating</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>13mm</td>
<td>Disconnectable type, Crimp style, For LCD back light lamps, With secure locking device</td>
<td>1.0A (AWG#24)</td>
<td>3000V</td>
</tr>
</tbody>
</table>

Board-to-wire crimping type connector with high withstanding voltage, used for power supply of large LCD (Liquid Crystal Display or Liquid Crystal Television) back light.

### AUH Connector

<table>
<thead>
<tr>
<th>Type</th>
<th>Current Rating</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power supply circuit/5A (AWG#22)</td>
<td>Signal circuit/1A</td>
<td>90V</td>
</tr>
</tbody>
</table>

This AUH connector is compact and low profile type, height 1.85mm and width 5.2mm, wire-to-board connector. And also 5A in rating current was realized.

### CN connector (W to B)

<table>
<thead>
<tr>
<th>Type</th>
<th>Current Rating</th>
<th>Voltage Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0A (AWG#25)</td>
<td>250V</td>
<td></td>
</tr>
</tbody>
</table>

Connector for the GPS antenna system of the car navigation system. The CN connector applies the unique crimping method to the shielding meshed wires, which will result in superior high-frequency characteristics.

### JFA connector (Metal shell)

<table>
<thead>
<tr>
<th>Type</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disconnectable type, Crimp style</td>
<td></td>
</tr>
</tbody>
</table>

Metal shell type I/O connector which contacts are used also with JFA connector J2000 series and J300 series.
### JFA connector J-PF3 press fit type

- **Type**
  - Disconnectable type
  - Press fit type
- **Current rating**
  - 13A (4 circuits/AWG#14)
- **Voltage rating**
  - 250V

Adopt high reliability press fit and enable solderless mounting.

### LBT connector A Type

- **Type**
  - Hybrid model Board to Wire connector
- **Current rating**
  - Power supply circuit/7.0A (AWG#20)
  - Signal circuit/0.5A (AWG#28)
- **Voltage rating**
  - 50V

This connector is for connecting the lithium polymer battery or for connecting DC-IN, and has the sequence structure for connection to the power supply circuit in preference to connection to the signal circuit by dividing the signal circuit and power supply circuit clearly. Moreover, this is the low profile connector (space saving) for applying the high current by adopting the heat radiation structure.

### SDF connector

- **Type**
  - Disconnectable type
  - Crimp style,
  - Single-circuit type
- **Current rating**
  - 5A

This terminal is used for 1.3mm diameter and 1.0mm square contacts.

### SMF connector

- **Type**
  - Disconnectable type
  - Crimp style,
  - Single-circuit type
- **Current rating**
  - 5A

For 1.0mm and 1.3mm diameter pins, having a funnel shaped lead-in to ease insertion and to ensure a balance with its high retaining force.

### SPF connector

- **Type**
  - Disconnectable type
  - Crimp style,
  - Single-circuit type
- **Current rating**
  - 5A

This terminal is used with 2.36mm diameter GT pins.