OMRON Connectors: A Perfect Match for Your Requirements

OMRON provides PCB Connector Series that meet the MIL, DIN, D-sub, and USB international standards. We also provide PCB Terminal Block Connectors and other Connectors that help increase mounting density and reliability of PCB. Let OMRON handle your connector needs. You will find a model that perfectly matches your requirements.

Boards to FPC/FFC Connections: FPC/FFC Connectors

Features of Rotary Backlock Mechanism

1. Rotary latch is independent of the FPC socket. The Rotary latch will not release if the FPC is lifted.
2. Dual contact. There is no need to distinguish between the upper and lower FPC connection.
3. Four-sided housing. Construction prevents FPC displacement.
4. Delivered with the rotary latch open. Less work required for FPC Mounting.

Improved insertion into FPC/FFC cable connectors with sure lock feeling to confirm proper connection.

XF3M FPC/FFC Connectors

- Improved FPC/FFC Insertion and Lock Feeling
- Wide Product Lineup with Pitches from 0.25 to 1 mm
- Small Reels Are Available with Only 100 Connectors to Fit Small-scale Applications

OMRON Flat Cable Connectors are compliant with MIL standards and provide high reliability and workability to support a broad range of requirements for board-to-wire connections.

Flat cable connectors plugs XG4A

- The wide lock is wide enough to use your entire finger for connection and disconnection, making it easier on your finger and increasing workability while providing a strong reliable connection.
- Easy-to-Use Lock Levers for One-Hand Insertion and Removal

Select from Many Easy-to-Use Variations to Match Your Connection Applications

Easy-to-Use Lock Levers for One-Hand Insertion and Removal

Stacked Connectors for High-density mounting
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**FPC/FFC Connectors**

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**XF3M FPC/FFC Connectors**

**Improved FPC/FFC Insertion and Lock Feeling**

**Width Product Lineup with Pitches from 0.25 to 1 mm**

<table>
<thead>
<tr>
<th>Height (mm)</th>
<th>XF3M (0.5 mm)</th>
<th>XF3A (0.5 mm)</th>
<th>XF3Z (0.5 mm)</th>
<th>XF3W (0.5 mm)</th>
<th>XF5A (0.5 mm)</th>
<th>XF5Z (0.5 mm)</th>
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<tbody>
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<td></td>
</tr>
</tbody>
</table>

*Applicable Connectors: XF3M, XF2U, XF2W, XF3M*

OMRON Flat Cable Connectors are compliant with MIL standards and provide high reliability and workability to support a broad range of requirements for board-to-wire connections.

**Flat cable connectors plugs**

**XG4A**

The wide lock is wide enough to use your entire finger for connection and disconnection, making it easier on your finger and increasing workability while providing a strong reliable connection.

**Select from Many Easy-to-Use Variations to Match Your Connection Applications**

**Easy-to-Use Lock Levers for One-Hand Insertion and Removal**

**Stacked Connectors for High-density mounting**
XM2/XM3 D-sub Connectors 

Hood Assemblies
- Shielded against EMI.
- Metallized plastic hood provides excellent noise protection.
- Connectors are available with cables connected horizontally to enable using the space behind the Connectors more effectively.

XM2 Easy-wire Connectors for Industrial Components
- No special tools required for easy wiring.
- Use industry-proven spring clamps for wiring.
- Shielded against EMI.

XM3 D-sub Connectors Are Ideal for Office Automation Interfacing.
- D-sub Connectors Are Ideal for Office Automation Interfacing.
- DIN Connectors
- External Connections
- Easy-wire Connectors with e-CON Specifications, Ideal for Connecting Sensors.
- Connectors with special tools for easy wiring.
- Rewiring (repairing) is possible.
- Each Connector accepts any wire size from stranded wire (AWS28 0.12±0.03 mm²) to AWG20 (0.5 mm²), (external shunt dia: 1.5 mm max).
- With the simple tool (XM22-0001), assembly can be completed for 4 wires simultaneously, is available.

XM2S-E Hood with ESD Protection
- XM2S
- Surface connections
- Terminal clips
- Board mounting area reduced by 33% (compared with previous models) using depth of 8.4 mm.
- Use the back surface to increase PCB surface usage

Board to Wire Connections
- PCB Terminal Blocks
- PCB Terminal Blocks That Are Ideal for Control Device Interfaces
- Both Push-in Connectors and Screw Terminals are available.
- With Push-in Connectors, all you have to do is insert solid wires or ferrules to complete the connections.
- With twisted wires, all you need is a standard screwdriver.

Surface-mounting terminals
- \text{Applicable board thickness} \quad 0.12±0.03 \text{ mm}
- \text{Applicable wire} \quad 0.2 \text{ A AC/DC}
- \text{Ambient operating temperature} \quad -30 \text{ to } +85 \degree C
- \text{Rated current} \quad 0.2 \text{ A AC/DC}
- \text{Rated voltage} \quad 50 \text{ V AC/DC}
- \text{Classification} \quad \text{SMT-PF}

Contact pitch (mm) | 0.5 | 0.6 | 0.8 | 1.0 | 1.6

Type | Side-entry | Side-entry | Side-entry | Side-entry | Side-entry

Classification
- FPC/FPC Connectors
- Hybrid Jack Connectors

Note: Inquire about the compliant standards for individual models.

Comprehensive Lineup of OMRON Connectors

<table>
<thead>
<tr>
<th>Model</th>
<th>XP3C</th>
<th>XP3A</th>
<th>XP3B</th>
<th>XP3S</th>
<th>XP3Z -</th>
<th>XP3U</th>
<th>XP3W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact pitch (mm)</td>
<td>0.5</td>
<td>0.6</td>
<td>0.8</td>
<td>1.0</td>
<td>1.6</td>
<td></td>
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</tr>
<tr>
<td>Type</td>
<td>Dual Contact</td>
<td>Dual Contact</td>
<td>Dual Contact</td>
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<td>Dual Contact</td>
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</tr>
<tr>
<td>Appearance</td>
<td>Top-entry</td>
<td>Side-entry</td>
<td>Side-entry</td>
<td>Side-entry</td>
<td>Bottom-entry</td>
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</tbody>
</table>
| Tapping hole and processing through holes, such as is required for DIP terminals, is not necessary, so you can use the back of the PCBs as well. 
- Surface-mounting 9-pin and 25-pin SMT Connectors (XM3K/L) Are Also Available 
- With Push-in Connectors, all you have to do is insert solid wires or ferrules to complete the connections. 
- With twisted wires, all you need is a standard screwdriver.

Surface-mounting 9-pin and 25-pin SMT Connectors (XM3K/L) Are Also Available 
- With Push-in Connectors, all you have to do is insert solid wires or ferrules to complete the connections. 
- With twisted wires, all you need is a standard screwdriver.

Round pins and 4-point (4-finger) contact construction ensure long life and excellent shock and vibration durability. 
- One-row Connectors allow you to freely adjust the pitch between rows and can be divided into the required number of contacts.
- Low-profile stacking possible in combination with Single-row IC Connectors
- Internal clips
- Plug - Contact
- Round pins
- High-density High-reliability Connectors Compliant with International Standards
- Connectors with two contacts provide both contacts on one surface to reduce insertion force and increase reliability with a wipping effect.
Comprehensive Lineup of OMRON Connectors

### D-sub Connectors

**XM2/XM3 D-sub Connectors**

- **Hood Assemblies**
  - **XM2/XM3 D-sub Connectors**
  - **XN2 Easy-wire Connectors for Industrial Components**

**Footprint on board reduced by 33% over previous models.**

- **Space-saving 5-pin Slim D-sub Connectors for Boards**
  - Board mounting area is reduced by 33% (compared with previous models) using depth 4.8 mm.

- **With the simple tool Jig (XW2Z-0001), assembly can be completed for 4 wires simultaneously, is available.**

- **No special tools required for easy wiring.**

**Hood Assemblies**

- **Metallized plastic Hood with cables connected horizontally**
  - **Protection**
  - **Availability**

**Easy-wire Connectors for Industrial Components**

- **Easy-wire Connectors with e-CON Specifications, Ideal for Control Sensors.**
  - **XM2 Easy-wire Connectors for Industrial Components**
    - **Use industry-proven spring clamps for easy wiring.**
    - **Rewiring (repairing) is possible.**
    - **Each Connector accepts any wire size from stranded wire AWG328 (0.8 mm²) to AWG20 (0.5 mm²). (External sheath diameter: 1.5 mm max.)**

With the simple tool Jig (XMW2-0001), assembly can be completed for 4 wires simultaneously, is available.

**Boards to Wire Connections**

- **PCB Terminal Blocks That Are Ideal for Control Device Interfaces**
  - **Both Push-in Connectors and Screw Terminals are available.**
  - **With Push-in Connectors, all you have to do is insert solid wires or ferrules to complete the connections.**
  - **With twisted wires, all you need is a standard screwdriver.**

**PCB Terminal Blocks**

- **Connect any of 3 types of wires.**
  - **Ferrules**
  - **Solid wires**
  - **Stranded wires**

**Internal and external connections**

- **No. of contacts**
  - **Ambient operating temperatures**
  - **Rated current**
  - **Rated voltage**
  - **Applicable board thickness**

**Surface-mounting 9-pin and 25-pin BMT Connectors (XM5K/L) Are Also Available**

- **Use the Back Surface to Increase PCB Surface Usage**
  - Tapping holes and processing through holes, such as is required for DIP terminals, is not necessary, so you can use the back of the PCBs as well.
  - And rewiring is possible in the same way as for other surface-mounted components, which reduces mounting work.

- **Rewiring (repairing) is possible.**

**Use industry-proven spring clamps for wiring.**

**IC Connectors**

- **IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power. Ideal for Highspeed Data Processing.**
  - **Round pins and 4-point (4-finger) contact construction ensure long life and excellent shock and vibration durability.**
  - **One-row Connectors allow you to freely adjust the pitch between rows and can be divided into the required number of contacts.**
  - **Low-profile stacking possible in combination with Single-row IC Sockets (XRIC and XRP).**

**IC Sockets**

- **XCIC**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**Classification**

- **Model**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

### PCB Terminal Blocks

- **Connectors are available with cables connected horizontally to enable using the space behind the Connectors more effectively.**

- **Compact and lightweight design.**

- **RoHS Compliant: International standards**

**Contact**

- **Class 100**
  - **Contact**
  - **Class 150**

**Terminals**

- **Contacts**
  - **Space-saving 9-pin Slim D-sub Connectors for Boards**
  - **Board mounting area is reduced by 33% (compared with previous models) using depth 4.8 mm.**

**Connections**

- **Side-entry connections**
  - **DX3M**
  - **DX3P**
  - **DX3**
  - **DX2**
  - **X2B**

**Dimensions**

- **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**External Connections**

- **Easy-wire Connectors for Industrial Components**
  - **Use industry-proven spring clamps for easy wiring.**
  - **Rewiring (repairing) is possible.**

**Connections**

- **Side-entry connections**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**Contact**

- **Details**
  - **Space-saving 9-pin Slim D-sub Connectors for Boards**
  - **Board mounting area is reduced by 33% (compared with previous models) using depth 4.8 mm.**

**Connections**

- **Side-entry connections**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**Contact**

- **Details**
  - **Easy-wire Connectors for Industrial Components**
  - **Use industry-proven spring clamps for easy wiring.**
  - **Rewiring (repairing) is possible.**

**Connections**

- **Side-entry connections**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**Contact**

- **Details**
  - **Easy-wire Connectors with e-CON Specifications, Ideal for Control Sensors.**
  - **XM2 Easy-wire Connectors for Industrial Components**
  - **Use industry-proven spring clamps for easy wiring.**
  - **Rewiring (repairing) is possible.**

**Connections**

- **Side-entry connections**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**Contact**

- **Details**
  - **DIN Connectors**
  - **Use industry-proven spring clamps for easy wiring.**
  - **Rewiring (repairing) is possible.**

**Connections**

- **Side-entry connections**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**

**Contact**

- **Details**
  - **IC Sockets**
  - **IC Connectors Have Excellent Reliability and Can Tolerate Momentary Interruptions in Power. Ideal for Highspeed Data Processing.**
  - **Round pins and 4-point (4-finger) contact construction ensure long life and excellent shock and vibration durability.**
  - **One-row Connectors allow you to freely adjust the pitch between rows and can be divided into the required number of contacts.**
  - **Low-profile stacking possible in combination with Single-row IC Sockets (XRIC and XRP).**

**Connections**

- **Side-entry connections**
  - **Contact pitch**
  - **Max. no. of contacts**
  - **Rated current**
  - **Rated voltage**
## Comprehensive Lineup of OMRON Connectors

### Flat Cable Connectors

<table>
<thead>
<tr>
<th>Classification</th>
<th>PCB Terminal Blocks</th>
<th>Flat Cable Connectors</th>
<th>Half-pitch Connectors</th>
<th>Type</th>
<th>Contact pitch</th>
<th>Rated current</th>
<th>Type</th>
<th>Contact pitch</th>
<th>Rated current</th>
<th>Type</th>
<th>Contact pitch</th>
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<tbody>
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<td>XW4H1</td>
<td>XW4A/SB</td>
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<td>12 A</td>
<td>Plugs</td>
<td>X4A</td>
<td>12 A</td>
<td>Plugs</td>
<td>X4A</td>
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<td>XW4H2</td>
<td>XW4A</td>
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### D-sub Connectors

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<tbody>
<tr>
<td>Model</td>
<td>X4B</td>
<td>X4C</td>
<td>X4D</td>
<td>X4E</td>
<td>X4F</td>
<td>X4G</td>
<td>X4H</td>
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### DIP Connectors

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<tr>
<th>Classification</th>
<th>DIP Connectors</th>
<th>Type</th>
<th>Contact pitch</th>
<th>Rated current</th>
<th>Type</th>
<th>Contact pitch</th>
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<tbody>
<tr>
<td>Model</td>
<td>X4B</td>
<td>X4C</td>
<td>X4D</td>
<td>X4E</td>
<td>X4F</td>
<td>X4G</td>
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### IDC Connectors

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<tbody>
<tr>
<td>Model</td>
<td>X4B</td>
<td>X4C</td>
<td>X4D</td>
<td>X4E</td>
<td>X4F</td>
<td>X4G</td>
<td>X4H</td>
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### Terminal Connectors

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<th>Classification</th>
<th>Type</th>
<th>Contact pitch</th>
<th>Rated current</th>
<th>Type</th>
<th>Contact pitch</th>
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<tbody>
<tr>
<td>Model</td>
<td>X4B</td>
<td>X4C</td>
<td>X4D</td>
<td>X4E</td>
<td>X4F</td>
<td>X4G</td>
<td>X4H</td>
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</table>
### Comprehensive Lineup of OMRON Connectors

#### Flat Cable Connectors

<table>
<thead>
<tr>
<th>Classification</th>
<th>PCB Terminal Blocks</th>
<th>Half-pitch Connectors</th>
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<th>PCB Terminal Blocks</th>
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<tbody>
<tr>
<td>Model</td>
<td>XG4M-U</td>
<td>XG4M</td>
<td>XG4E</td>
<td>XG4H</td>
<td>XG2</td>
<td>XG5M</td>
<td>XG5N</td>
<td>XG8</td>
</tr>
</tbody>
</table>

**Contact pitch**
- 2.54 mm
- 3.96 mm
- 5.08 mm
- 6.35 mm
- 8.41 mm

**Type**
- —
- DIP Sockets
- —
- Small Terminals
- Medium Terminals
- Long Terminals
- —
- —

**No. of Contacts**
- 10
- 20
- 50
- 70
- 90
- 100

**Rated Current**
- 1 A
- 50 mA
- 1.2 A
- 2 A
- 3 A
- 5 A

**Ambient Operating Temperature**
- 0°C to +85°C
- —
- —

**Mounting Style**
- Right-angle
- One-row

**Application**
- Standard
- Connector Assembly
- Reverse

**Note**
- 1. DIP and IDC are RoHS compliant.
- 2. USB 2.0, 2.1, 3.0 (v1.1)
- 3. USB 2.0 or mini USB, 0 to 80°C
- 4. USB 2.0 or mini USB, 0 to 80°C

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#### Dfn Connectors

<table>
<thead>
<tr>
<th>Classification</th>
<th>PCB Terminal Blocks</th>
<th>Half-pitch Connectors</th>
<th>PCB Terminal Blocks</th>
<th>Half-pitch Connectors</th>
<th>PCB Terminal Blocks</th>
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<tr>
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<td>XG8</td>
<td>XG9</td>
<td>XG8S</td>
<td>XG9S</td>
<td>XG8</td>
<td>XG9</td>
</tr>
</tbody>
</table>

**Contact pitch**
- 2.54 mm
- 3.96 mm
- 5.08 mm
- 6.35 mm
- 8.41 mm

**Type**
- —
- DIP Sockets
- —
- Small Terminals
- Medium Terminals
- Long Terminals
- —
- —

**No. of Contacts**
- 10
- 20
- 50
- 70
- 90
- 100

**Rated Current**
- 1.6 A
- 2 A
- 2.5 A
- 3 A
- 5 A

**Ambient Operating Temperature**
- 0°C to +85°C
- —
- —

**Mounting Style**
- Right-angle
- One-row

**Application**
- Standard
- Connector Assembly
- Reverse

**Note**
- 1. DIP and IDC are RoHS compliant.
- 2. USB 2.0, 2.1, 3.0 (v1.1)
- 3. USB 2.0 or mini USB, 0 to 80°C

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#### D-Sub Connectors

<table>
<thead>
<tr>
<th>Classification</th>
<th>PCB Terminal Blocks</th>
<th>Half-pitch Connectors</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>X805</td>
<td>X806</td>
<td>X805S</td>
<td>X806S</td>
<td>X805</td>
<td>X806</td>
<td>X805</td>
<td>X806</td>
</tr>
</tbody>
</table>

**Contact pitch**
- 2.54 mm
- 3.96 mm
- 5.08 mm
- 6.35 mm
- 8.41 mm

**Type**
- —
- DIP Sockets
- —
- Small Terminals
- Medium Terminals
- Long Terminals
- —
- —

**No. of Contacts**
- 10
- 20
- 50
- 70
- 90
- 100

**Rated Current**
- 1.6 A
- 2 A
- 2.5 A
- 3 A
- 5 A

**Ambient Operating Temperature**
- 0°C to +85°C
- —
- —

**Mounting Style**
- Right-angle
- One-row

**Application**
- Standard
- Connector Assembly
- Reverse

**Note**
- 1. DIP and IDC are RoHS compliant.
- 2. USB 2.0, 2.1, 3.0 (v1.1)
- 3. USB 2.0 or mini USB, 0 to 80°C