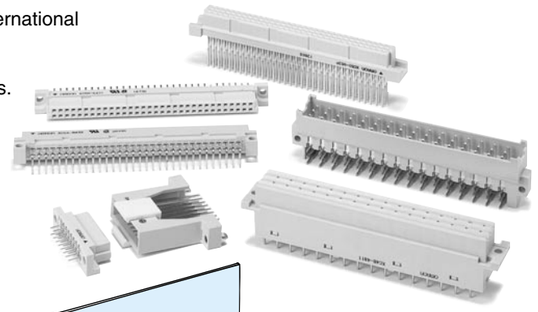
# XC5/XC6/XC7/XC2/XC4
## DIN Connectors Series

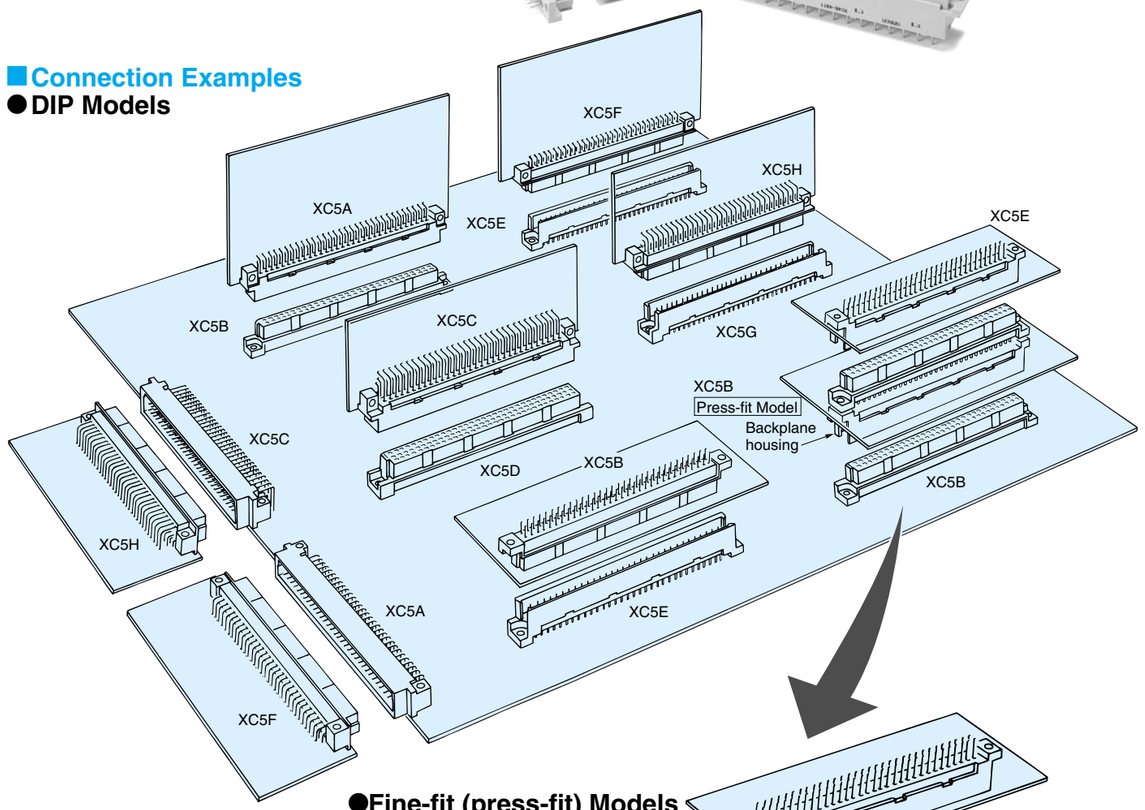
## A Wide Variety of High-density Connectors Conform to International Standards, are Highly Reliable, and Support a Wide Range of Applications

- Lineup includes versatile DIN models that meet international DIN standards, such as standard DIN, DIN-style, and DIN fine-fit models.
- These connectors meet a variety of industrial needs.
- A comprehensive selection of accessories are available.

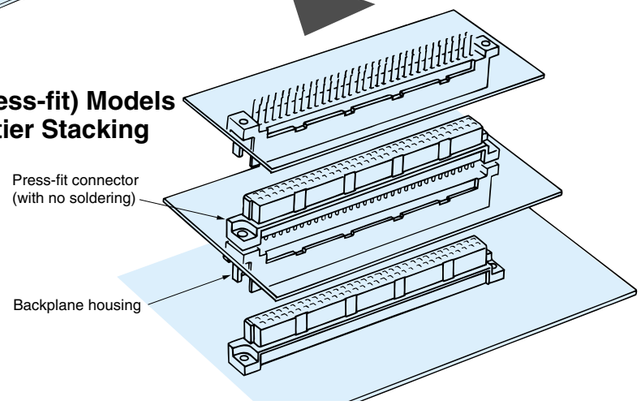


### Connection Examples

**● DIP Models**

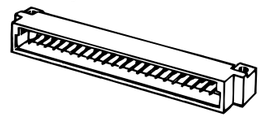



**● Fine-fit (press-fit) Models with Multi-tier Stacking**




## A wide variety of DIN connectors are available in addition to the following models.

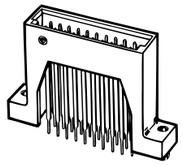
### XC5 DIN-style Connectors

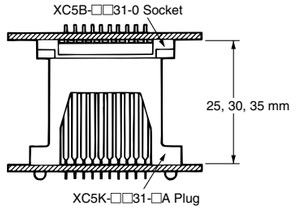


| | Standard DIN | DIN style 1 | DIN style 2 |
|---|---|---|---|
| PCB mounting | Fixed at PCB edge | PCB surface mounting | PCB surface mounting |

- Designed for PCB surface mounting and ideal for automatic soldering.

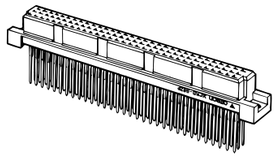
### XC5K High-profile Stacking Connectors



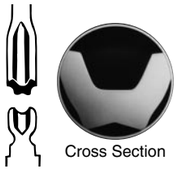



- Corresponding to a stacking height of 25, 30, or 35 mm.

### XC5 Fine-fit (press-fit) Connectors



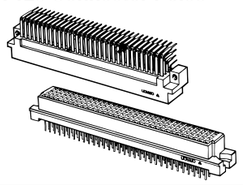
**■Construction of Solderless Connecting Part (Fine-fit Part)**




The cross section is in the shape of the letter W.
The two points on the bottom work as guide rails, preventing the pins from becoming twisted.
The fin parts on the upper part change shape to fit into the through hole of the PCB.

- Press-fitted to PCBs and so soldering or cleaning is required.
- Mounting method more efficient than manual soldering.
- Ideal for backplane systems.

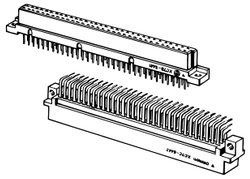
### XC5M DIN Connectors in 4 Lines with 128 Connector Poles

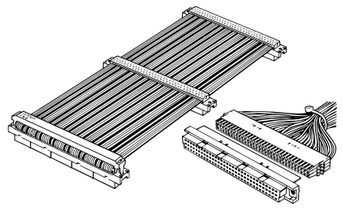


| | XC5M standard DIN model | XC5M-1 DIN style 1 | XC5N DIN style 3 |
|---|---|---|---|
| Shape | Plug Right angle terminal | Plug Right angle terminal | Socket Straight terminal |

- Multi-pole connectors in 4 lines with 128 poles based on the DIN concept.

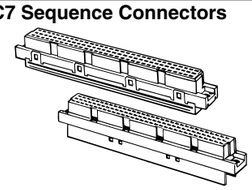
### XC6 Cable Connectors

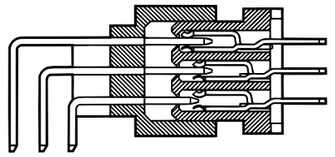




- Ideal for connecting to a variety of bus lines for rack systems.
- Allow backplanes to be constructed with ease.
- Models with 96 connector poles and models with 64 connector poles and a center-holed construction are available.

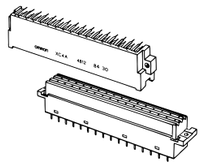
### XC7 Sequence Connectors

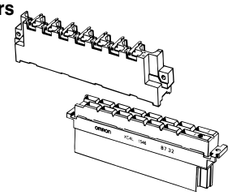


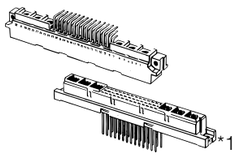


- Active lines can be connected to daughter boards after connecting power lines, and can be disconnected before disconnecting the power lines.
- High reliability ensured with an engagement length of 4 mm and the durability to withstand 5,000 insertions.
- Three-step sequential operation.

### XC4 Mid- and High-current Connectors







- Carry 6 to 40 A for PCB-to-PCB or PCB-to-wire applications.

*1

*1(high frequency model available)

# XC5/XC6/XC7/XC2/XC4
## DIN Connectors Series

## ■Ordering Information

### ●XC5 DIN Connectors

| | XC5A 2-Row Plugs (DIN-B Standard Models) | XC5B 2-Row Sockets (DIN-B Standard Models) | | XC5E DIP Plugs (DIN-Q Reverse Models) | |
|---|---|---|---|---|---|
| Shape | Right angle terminal<br>XC5A-□□22 | Straight terminal<br>XC5B-□□21 | Straight wrapping terminal<br>XC5B-□□23 | Straight terminal<br>XC5E-□□21 | Straight wrapping terminal<br>XC5E-□□23 |
| Number of contacts | 20,32,44,50,64,100 | 20,32,44,50,64,100 | | 20,32,44,50,64,100 | |

| | XC5F 2-Row Sockets (DIN-Q Reverse Models) | XC5C 3-Row Plugs (DIN-C Standard Models) | XC5D 3-Row Sockets (DIN-C Standard Models) | |
|---|---|---|---|---|
| Shape | Right angle terminal<br>XC5F-□□22 | Right angle terminal<br>XC5C-□□22 | Straight terminal<br>XC5D-□□21 | Straight wrapping terminal<br>XC5D-□□23 |
| Number of contacts | 20,32,44,50,64,100 | 32,48,64,96 | 32,48,64,96 | |

| | XC5G 3-Row Plugs (DIN-R Reverse Models) | | XC5H 3-Row Sockets (DIN-R Reverse Models) |
|---|---|---|---|
| Shape | Straight terminal<br>XC5G-□□21 | Straight wrapping terminal<br>XC5G-□□23 | Right angle terminal<br>XC5H-□□22 |
| Number of contacts | 48,64,96 | | 48,64,96 |

### ●XC5 DIN Connectors (Twin-contact Model)

| | XC5A 2-Row Plugs (DIN Style 1) | XC5B 2-Row Sockets (DIN-style Compatible Models) | XC5E 2-Row Plugs (DIN Style 2) | XC5F 2-Row Sockets (DIN Style 2) |
|---|---|---|---|---|
| Shape | Right angle terminal<br>XC5A-□□82-1 | Straight terminal<br>XC5B-□□31-0(with coding key)<br>XC5B-□□31-3 | Straight terminal<br>XC5E-□□81-2<br>XC5E-□□81-3 * | Right angle terminal<br>XC5F-□□32-2 |
| Number of contacts | 20,24,26,30,32,44,50,60,64,90,100 | 10,14,16,20,24,26,30,32,40,44,50,60,64,80,90,100 | 10*,14*,20,24*,30,32,40*,44,50,60,64,80,90,100 | 20,30,32,40,44,50,60,64,90,100 |

| | XC5K High-profile Stacking Plugs | XC5C 3-Row Plugs (DIN Style 1) | XC5D 3-Row Sockets (DIN Style Compatible) | XC5H 3-Row Sockets (DIN Style 1) |
|---|---|---|---|---|
| Shape | XC5K-□□31-4A with 35-mm-pitch Straight terminal<br>XC5K-□□31-3A with 30-mm-pitch Straight terminal<br>XC5K-□□31-2A with 25-mm-pitch Straight terminal | Right angle terminal<br>XC5C-□□82-1 | Straight terminal<br>XC5D-□□31-0 | Right angle terminal<br>XC5H-□□32-1 |
| Number of contacts | 16,20,32 | 64,96 | 64,96 | 64,96 |

### ●XC5 DIN Connectors (Fine-fit, W-shaped terminal type)

| | XC5B 2-Row Sockets (DIN-B Fine-fit, W-terminal Models) | XC5E 2-Row Plugs (DIN-Q Fine-fit, W-terminal Models) | XC5D 3-Row Sockets (DIN-C Fine-fit, W-terminal Models) | XC5G 3-Row Plugs (DIN-R Fine-fit, W-terminal Models) |
|---|---|---|---|---|
| Shape | Straight terminal<br>XC5B-□□2P-1140 *1<br>XC5B-□□2P-1131 *2<br>XC5B-□□2P-1132 *3 | Straight terminal<br>XC5E-□□2P-1140 *1<br>XC5E-□□2P-1131 *2<br>XC5E-□□2P-1132 *3 | Straight terminal<br>XC5D-□□2P-1140 *1<br>XC5D-□□2P-1131 *2<br>XC5D-□□2P-1132 *3 | Straight terminal<br>XC5G-□□2P-1140 *1<br>XC5G-□□2P-1131 *2<br>XC5G-□□2P-1132 *3 |
| Number of contacts | 32,64,100 | 32,64,100 | 48,64,96 | 48,64,96 |

*1: Terminal type/ Straight, 4mm *2: Terminal type/ Straight, 13mm *3: Terminal type/ Straight, 17mm

### ●XC5 DIN Connectors (4-Rows and 128 Contacts type)

| | XC5M 4-Row Plugs | | XC5N 4-Row Sockets |
|---|---|---|---|
| Shape | Standard DIN<br>Right angle type terminal<br>XC5M-0222 | DIN Style<br>Right angle terminal<br>XC5M-0222-1 | DIN Style 3<br>Straight terminal<br>XC5N-0221 |
| Number of contacts | 128 | | 128 |

### ●XC6 DIN Connectors (Cable Connecting type)

| | XC6D Center-holed 2-Row Flat Cables (DIN-C Models) | | XC6H 3-Row Flat Cable (DIN-C Models) | |
|---|---|---|---|---|
| Shape | Socket<br>XC6D-6421 | Strain relief<br>XC6T-644 | Socket<br>XC6H-9621 | Strain relief<br>XC6T-644 |
| Number of contacts | 64 | | 96 | |

### ●XC6V DIN Connectors (IDC Connectors for Discretedwire)

| | Unit housing<br>XC6M-96 | Housing without contacts<br>XC6T-32 |
|---|---|---|
| Shape | | |

# XC5/XC6/XC7/XC2/XC4
## DIN Connectors Series

## ■Ordering Information

### ●XC7 DIN Socket Sequence Connectors

| | XC7A 2-Row Plugs | XC7B 2-Row Sockets | XC7C 3-Row Plugs | XC7D 3-Row Sockets |
|---|---|---|---|---|
| Shape | Right angle terminal<br>XC7A-□□42-N001 *1<br>XC7A-□□42-N003 *2 | Straight terminal<br>XC7B-□□41-N001 *1<br>XC7B-□□41-N003 *2 | Right angle terminal<br>XC7C-9642-N001 *1<br>XC7C-9642-N003 *2 | Straight terminal<br>XC7D-9641-N001 *1<br>XC7D-9641-N003 *2 |
| Number of contacts | 64,90,100 | 64,90,100 | 96 | 96 |

*1:N001→Normal *2:N003→Sequence

### ●XC2 DIN Connectors

| | XC2A 2-Row Plugs (DIN-B standard models) | XC2B 2-Row Sockets (DIN-B standard models) | | XC2C 3-Row Plugs (DIN-C standard models) |
|---|---|---|---|---|
| Shape | Right angle terminal<br>XC2A-6412 | Straight terminal<br>XC2B-6411 | Straight wrapping terminal<br>XC2B-6413 | Right angle terminal<br>XC2C-□□12 |
| Number of contacts | 64 | 64 | | 64,96 |

| | XC2D 3-Row Sockets (DIN-C standard) | | XC2E 2-Row Plugs (DIN-Q Reverse model) | |
|---|---|---|---|---|
| Shape | Straight terminal<br>XC2D-□□11 | Straight wrapping terminal<br>XC2D-□□13 | Straight terminal<br>XC2E-6411 | Straight wrapping terminal<br>XC2E-6413 |
| Number of contacts | 64,96 | | 64 | |

| | XC2F 2-Row Sockets (DIN-Q Reverse model) | XC2G 3-Row Plugs (DIN-R Reverse model) | | XC2H 3-Row Sockets (DIN-R Reverse model) |
|---|---|---|---|---|
| Shape | Right angle terminal<br>XC2F-6412 | Straight terminal<br>XC2G-□□11 | Straight wrapping terminal<br>XC2G-□□13 | Right angle terminal<br>XC2H-□□12 |
| Number of contacts | 64 | 64,96 | | 64,96 |

### ●XC4 DIN types

| Models | XC4G/H | XC4E/F | XC4A/B | XC4K/L | XC4M/N |
|---|---|---|---|---|---|
| DIN | D | E | F | H | M |
| Shape | | | | | |

### ●XC4 DIN Connectors (Medium and High-current Connectors)

| | XC4A Plugs (DIN-F) | XC4B Sockets (DIN-F) | |
|---|---|---|---|
| Shape | Right angle terminal<br>XC4A-4812 | Straight terminal<br>XC4B-4813 | Wrapping terminal<br>XC4B-4811 |
| Number of contacts | 48 | 48 | |

| | XC4E Plugs (DIN-E) | XC4F Sockets (DIN-E) | XC4G Plugs (DIN-D) | XC4H Sockets (DIN-D) |
|---|---|---|---|---|
| Shape | Right angle terminal<br>XC4E-□□12 | Wrapping terminal<br>XC4F-□□13 | Right angle terminal<br>XC4G-3212 | Wrapping terminal<br>XC4H-3213 |
| Number of contacts | 32,48 | 32,48 | 32 | 32 |

| | XC4K Plugs (DIN-H) | XC4L Sockets (DIN-H) | XC4L Sockets(with Fastening Terminals)(DIN-H) |
|---|---|---|---|
| Shape | Right angle terminal<br>XC4K-1542 | Straight terminal<br>XC4L-1541 | with Fasten Terminal<br>XC4L-1546 |
| Number of contacts | 15 | 15 | 15 |

| | XC4M Plugs (DIN-M) | XC4N Sockets (DIN-M) |
|---|---|---|
| Shape | Right angle terminal<br>XC4M-□□12 | Straight wrapping terminal<br>XC4N-□□13 |
| Number of contacts | 2/78, 4/60, 6/42 * | 2/78, 4/60, 6/42 * |

*: contacts/ Number of signal circuit poles

### ●XC4W High-current Contacts (for XC4M/XC4N)

| | Plug with Solder Cup Terminal<br>XC4W-□□11 | Plug with L-shaped Solder Terminal<br>XC4W-0412 | Receptacle with<br>Solder Cup Terminal<br>XC4W-□□11 |
|---|---|---|---|
| Shape | | | |
| Number of contacts | 1,2,4 | 4 | 11,12,14 |

### ●XC4W Co-axial Contacts for XC4M/XC4N

| | XC4W-2111(ϕ2.2)<br>XC4W-2211(ϕ3.2) | XC4W-2014 | XC4W-3111(ϕ2.2)<br>XC4W-3211(ϕ3.2) | XC4W-3112(ϕ2.2)<br>XC4W-3212(ϕ3.2) |
|---|---|---|---|---|
| Shape | | | | |

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