

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



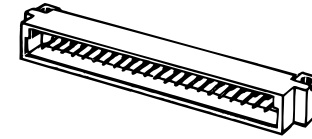
● Fine-fit (press-fit) Models with Multi-tier Stacking

Press-fit connector (with no soldering)

Backplane housing

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

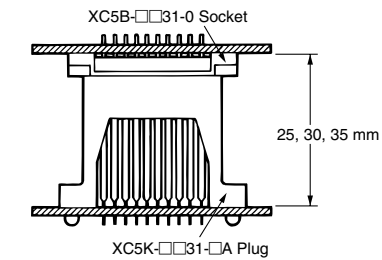
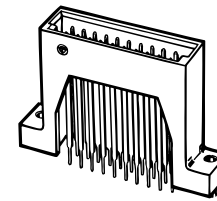
XC5 DIN-style Connectors



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

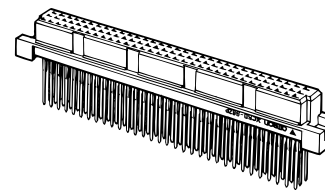
- Designed for PCB surface mounting and ideal for automatic soldering.

XC5K High-profile Stacking Connectors

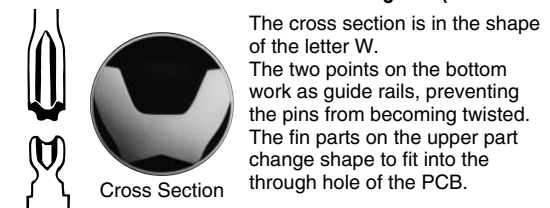


- Corresponding to a stacking height of 25, 30, or 35 mm.

XC5 Fine-fit (press-fit) Connectors

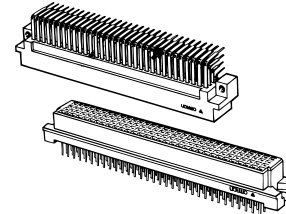


Construction of Solderless Connecting Part (Fine-fit Part)



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

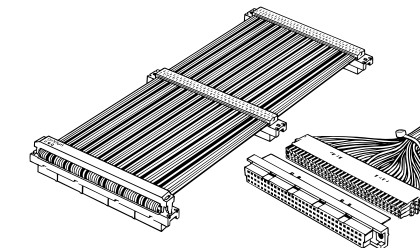
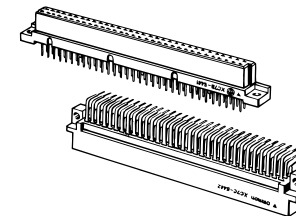
XC5M DIN Connectors in 4 Lines with 128 Connector Poles



| | 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 |

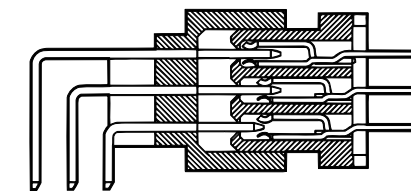
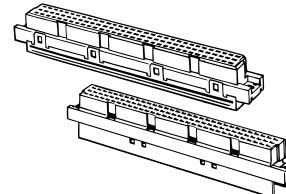
- Multi-pole connectors in 4 lines with 128 poles based on the DIN concept.

XC6 Cable Connectors



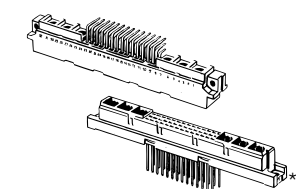
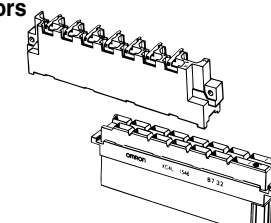
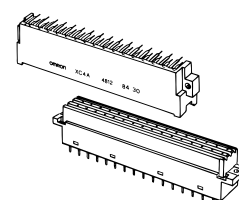
- Ideal for connecting to a variety of bus lines for rack systems.
- Allow backplanes to be constructed with ease.
- Models with 96 connector poles and models with 64 connector poles and a center-holed construction are available.

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 (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 XC5A-□□22  | Straight terminal XC5B-□□21  | Straight wrapping terminal XC5B-□□23  | Straight terminal XC5E-□□21  | Straight wrapping terminal 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 XC5F-□□22  | Right angle terminal XC5C-□□22  | Straight terminal XC5D-□□21  | Straight wrapping terminal 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 XC5G-□□21  | Straight wrapping terminal XC5G-□□23  | Right angle terminal 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 XC5A-□□82-1  | Straight terminal XC5B-□□31-0 (with coding key) XC5B-□□31-3  | Straight terminal XC5E-□□81-2 XC5E-□□81-3 *  | Right angle terminal 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 |

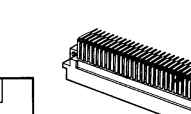
| | XC5K High-profile Stacking Plugs | XC5C 3-Row Plugs (DIN Style 1) | XC5D 3-Row Sockets (DIN Style Compatible) | XC5H 3-Row Sockets (DIN Style 1) |
|--------------------|--|--|---|---|
| Shape | XC5K-□□31-4A with 35-mm-pitch Straight terminal XC5K-□□31-3A with 30-mm-pitch Straight terminal XC5K-□□31-2A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

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

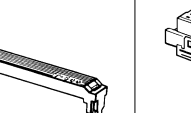
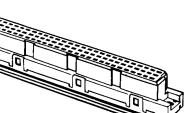
| | XC5B 2-Row Sockets (DIN-B Fine-fit, W-terminal Models) | XC5E 2-Row Plugs (DIN-Q Fine-fit, W-terminal Models) | XC5D 3-Row Sockets (DIN-C Fine-fit, W-terminal Models) | XC5G 3-Row Plugs (DIN-R Fine-fit, W-terminal Models) |
|--------------------|---|---|---|---|
| Shape | Straight terminal XC5B-□□2P-1140 *1 XC5B-□□2P-1131 *2 XC5B-□□2P-1132 *3  | Straight terminal XC5E-□□2P-1140 *1 XC5E-□□2P-1131 *2 XC5E-□□2P-1132 *3  | Straight terminal XC5D-□□2P-1140 *1 XC5D-□□2P-1131 *2 XC5D-□□2P-1132 *3  | Straight terminal XC5G-□□2P-1140 *1 XC5G-□□2P-1131 *2 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 Right angle type terminal XC5M-0222  | DIN Style Right angle terminal XC5M-0222-1  | DIN Style 3 Straight terminal 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 XC6D-6421  | Strain relief XC6T-644  | Socket XC6H-9621  | Strain relief XC6T-644  |
| Number of contacts | 64 | | 96 | |

XC6V DIN Connectors (IDC Connectors for Discretedwire)

| | Unit housing XC6M-96  | Housing without contacts 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 XC7A-□□42-N001 *1 XC7A-□□42-N003 *2 | Straight terminal XC7B-□□41-N001 *1 XC7B-□□41-N003 *2 | Right angle terminal XC7C-9642-N001 *1 XC7C-9642-N003 *2 | Straight terminal XC7D-9641-N001 *1 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 XC2A-6412 | Straight terminal XC2B-6411 | Straight wrapping terminal XC2B-6413 | Right angle terminal XC2C-□□12 |
| Number of contacts | 64 | 64 | 64 | 64,96 |

| | XC2D 3-Row Sockets (DIN-C standard) | | XC2E 2-Row Plugs (DIN-Q Reverse model) | |
|--------------------|-------------------------------------|---|--|---|
| Shape | Straight terminal XC2D-□□11 | Straight wrapping terminal XC2D-□□13 | Straight terminal XC2E-6411 | Straight wrapping terminal XC2E-6413 |
| Number of contacts | 64,96 | 64,96 | 64 | 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 XC2F-6412 | Straight terminal XC2G-□□11 | Straight wrapping terminal XC2G-□□13 | Right angle terminal XC2H-□□12 |
| Number of contacts | 64 | 64,96 | 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 XC4A-4812 | Straight terminal XC4B-4813 | Wrapping terminal XC4B-4811 |
| Number of contacts | 48 | 48 | 48 |

| | XC4E Plugs (DIN-E) | XC4F Sockets (DIN-E) | XC4G Plugs (DIN-D) | XC4H Sockets (DIN-D) |
|--------------------|---------------------------------------|------------------------------------|---------------------------------------|------------------------------------|
| Shape | Right angle terminal XC4E-□□12 | Wrapping terminal XC4F-□□13 | Right angle terminal XC4G-3212 | Wrapping terminal 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 XC4K-1542 | Straight terminal XC4L-1541 | with Fasten Terminal XC4L-1546 |
| Number of contacts | 15 | 15 | 15 |

| | XC4M Plugs (DIN-M) | XC4N Sockets (DIN-M) |
|--------------------|---------------------------------------|---|
| Shape | Right angle terminal XC4M-□□12 | Straight wrapping terminal 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 XC4W-□□11 | Plug with L-shaped Solder Terminal XC4W-0412 | Receptacle with Solder Cup Terminal XC4W-□□11 |
|--------------------|--|---|--|
| Shape | | | |
| Number of contacts | 1,2,4 | 4 | 11,12,14 |

XC4W Co-axial Contacts for XC4M/XC4N

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

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JONHON

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