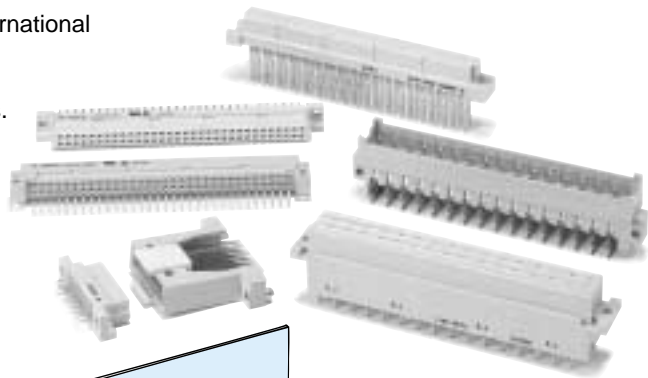# XC5 / XC6 / XC7 / XC2 / XC4

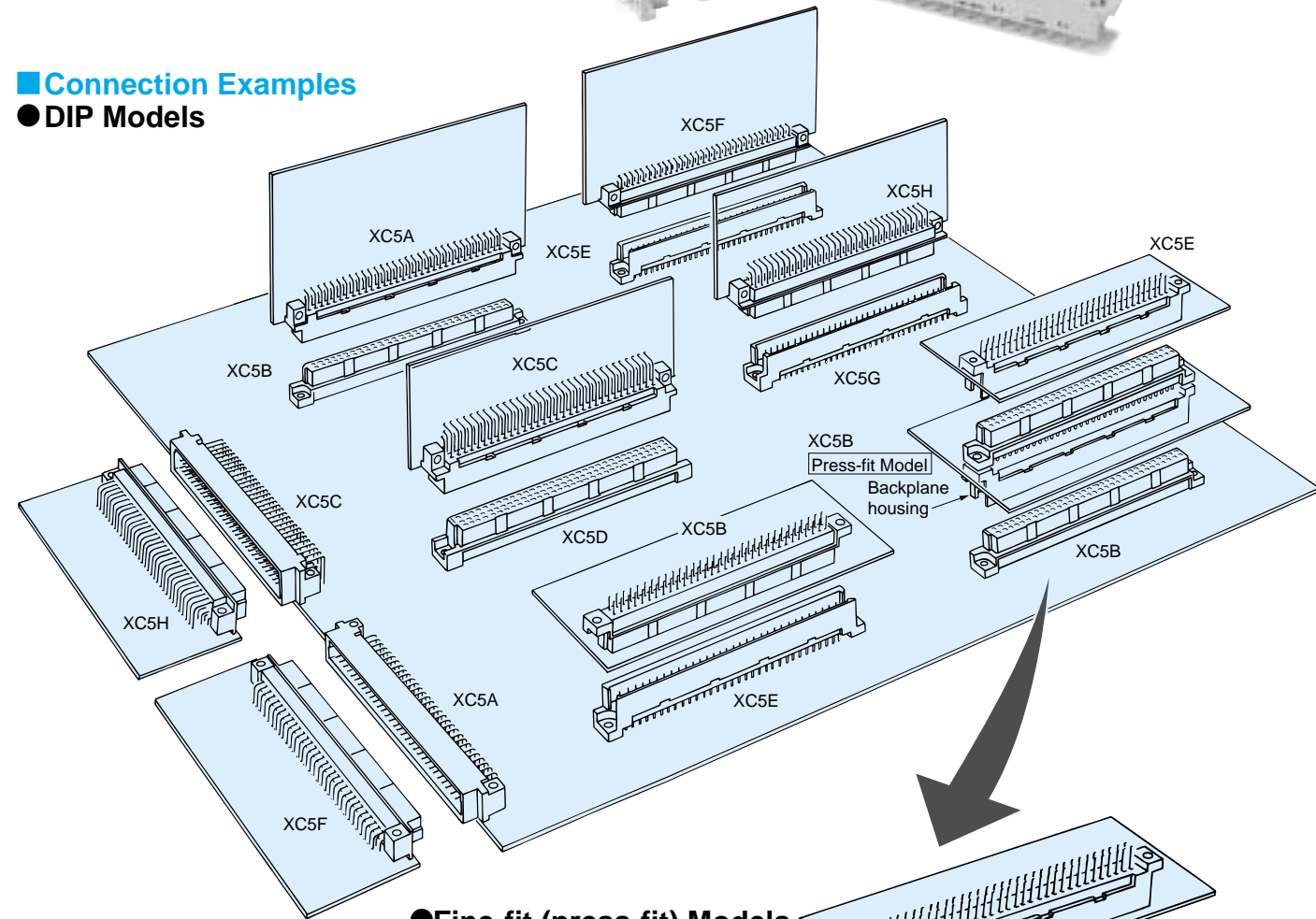## DIN Connectors Series

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.
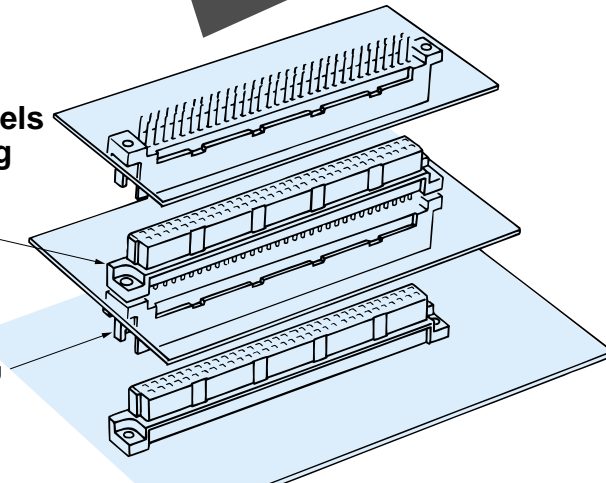
■ Connection Examples
● DIP Models

XC5F
XC5H
XC5A
XC5E
XC5E
XC5B
XC5C
XC5G
XC5B
XC5C
XC5B
Press-fit Model
Backplane housing
XC5D
XC5B
XC5B
XC5H
XC5A
XC5E
XC5F

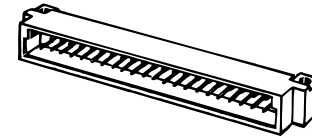### ● Fine-fit (press-fit) Models with Multi-tier Stacking

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

XC5B-□□31-0 Socket
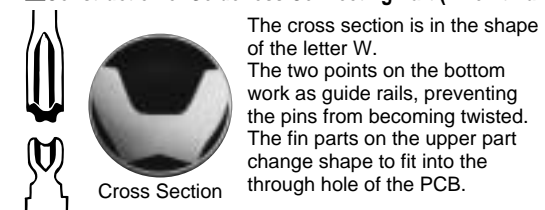
25, 30, 35 mm

XC5K-□□31-□A Plug
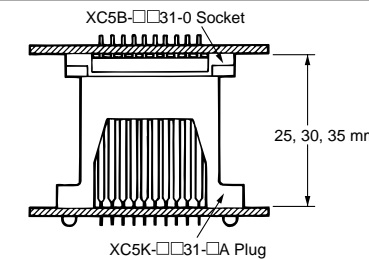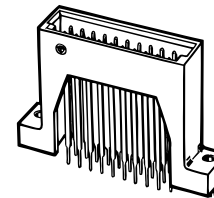
- Corresponding to a stacking height of 25, 30, or 35 mm.

XC5 Fine-fit (press-fit) Connectors
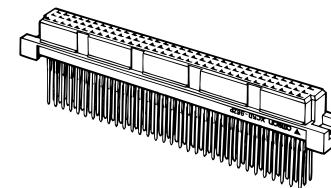
■ Construction of Solderless Connecting Part (Fine-fit Part)

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.

Cross Section

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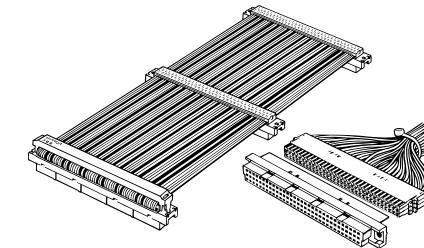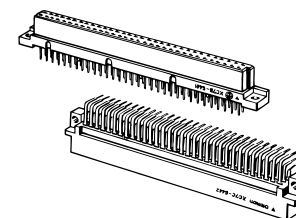- Ideal for backplane systems.

XC5M DIN Connectors in 4 Lines with 128 Connector Poles
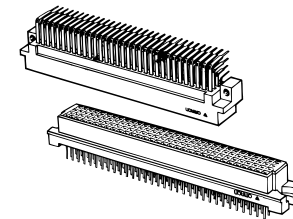
|	XC5M standard DIN model	XC5M-1 DIN style 1	XC5N DIN style 3
Shape	Plug Right angle terminal	Plug Right angle terminal	Socket Straight terminal

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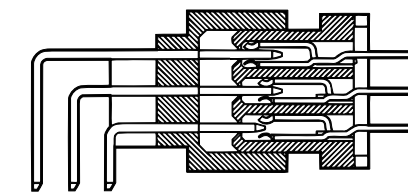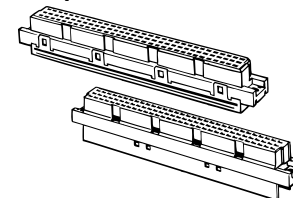
- Active lines can be connected to daughter boards after connecting power lines, and can be disconnected before disconnecting the power lines.
- High reliability ensured with an engagement length of 4 mm and the durability to withstand 5,000 insertions.
- Three-step sequential operation.

XC4 Mid- and High-current Connectors

*1
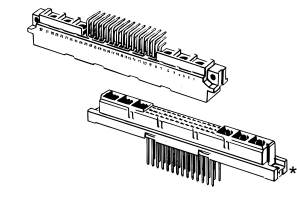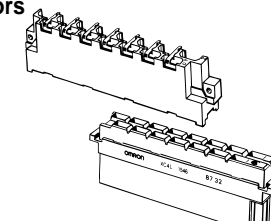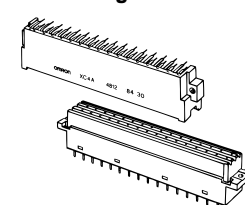
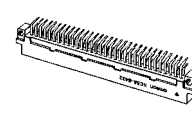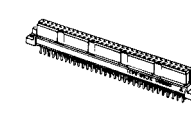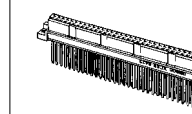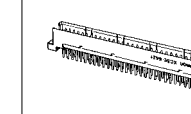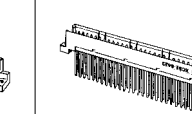- Carry 6 to 40 A for PCB-to-PCB or PCB-to-wire applications.

*1 (high frequency model available)
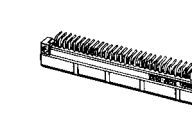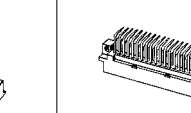
XC5/XC6/XC7/XC2/XC4
DIN Connectors Series

■Ordering Information
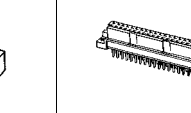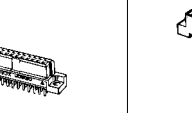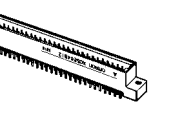
●XC5 DIN Connectors

Shape	XC5A 2-Row Plugs (DIN-B Standard Models)	XC5B 2-Row Sockets (DIN-B Standard Models)		XC5E DIP Plugs (DIN-Q Reverse Models)	
	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	

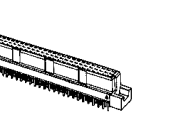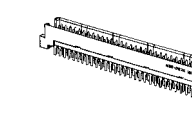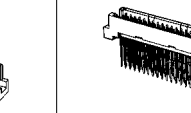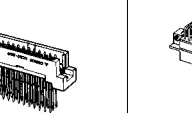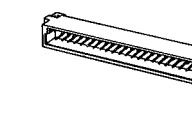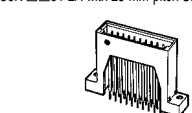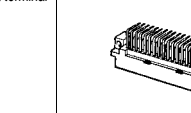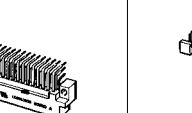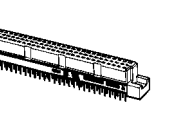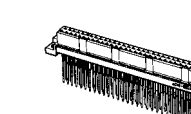| Shape	XC5F 2-Row Sockets (DIN-Q Reverse Models)	XC5C 3-Row Plugs (DIN-C Standard Models)	XC5D 3-Row Sockets (DIN-C Standard Models)	
	Right angle terminal XC5F-□□22	Right angle terminal XC5C-□□22	Straight terminal XC5D-□□21	Straight wrapping terminal XC5D-□□23
Number of contacts	20,32,44,50,64,100	32,48,64,96	32,48,64,96	
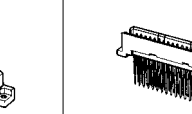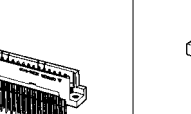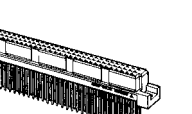
Shape	XC5G 3-Row Plugs (DIN-R Reverse Models)		XC5H 3-Row Sockets (DIN-R Reverse Models)
	Straight terminal XC5G-□□21	Straight wrapping terminal XC5G-□□23	Right angle terminal XC5H-□□22
Number of contacts	48,64,96		48,64,96

●XC5 DIN Connectors (Twin-contact Model)

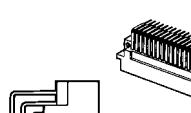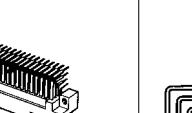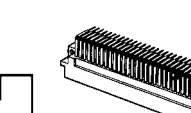| Shape	XC5A 2-Row Plugs (DIN Style 1)	XC5B 2-Row Sockets (DIN-style Compatible Models)	XC5E 2-Row Plugs (DIN Style 2)	XC5F 2-Row Sockets (DIN Style 2)
	Right angle terminal XC5A-□□82-1	Straight terminal XC5B-□□31-0(with coding key) XC5B-□□31-3	Straight terminal XC5E-□□81-2 XC5E-□□81-3 *	Right angle 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

Shape	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)
	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)
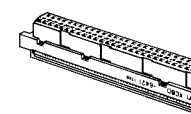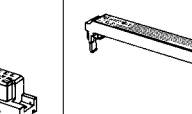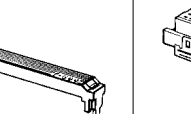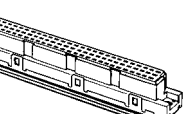
Shape	XC5B 2-Row Sockets (DIN-B Fine-fit, W-terminal Models)	XC5E 2-Row Plugs (DIN-Q Fine-fit, W-terminal Models)	XC5D 3-Row Sockets (DIN-C Fine-fit, W-terminal Models)	XC5G 3-Row Plugs (DIN-R Fine-fit, W-terminal Models)
	Straight terminal XC5B-□□2P-1140 *1 XC5B-□□2P-1131 *2 XC5B-□□2P-1132 *3	Straight 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
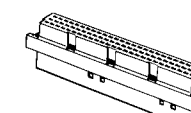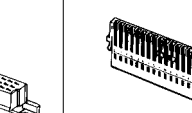
●XC5 DIN Connectors (4-Rows and 128 Contacts type)

Shape	XC5M 4-Row Plugs		XC5N 4-Row Sockets
	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)

Shape	XC6D Center-holed 2-Row Flat Cables (DIN-C Models)		XC6H 3-Row Flat Cable (DIN-C Models)	
	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)

Shape	Unit housing XC6M-96	Housing without contacts XC6T-32

XC5/XC6/XC7/XC2/XC4

DIN Connectors Series

■ Ordering Information

● XC7 DIN Socket Sequence Connectors

Shape	XC7A 2-Row Plugs	XC7B 2-Row Sockets	XC7C 3-Row Plugs	XC7D 3-Row Sockets
	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

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

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

Shape	XC2F 2-Row Sockets (DIN-Q Reverse model)	XC2G 3-Row Plugs (DIN-R Reverse model)		XC2H 3-Row Sockets (DIN-R Reverse model)
	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

● 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)

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

Shape	XC4E Plugs (DIN-E)	XC4F Sockets (DIN-E)	XC4G Plugs (DIN-D)	XC4H Sockets (DIN-D)
	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

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

Shape	XC4M Plugs (DIN-M)	XC4N Sockets (DIN-M)
	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)

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

● XC4W Co-axial Contacts for XC4M/XC4N

Shape	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)