# OMRON

DIN-style Twin-contact Connectors | XC5

Expanding the DIN Concept

- ■ Mates with DIN connectors.

- ■ Ideal for automated soldering because the Connectors sit on top of the board.

- ■ Mounting dimensions of the DIN Style-1 Connectors are the same as the DIN connector.

- ■ DIN Style-2 Connectors have widened dimensions for ease of mounting.

- ■ Conform to UL standards (file no. E103202) and CSA standards (file no. LR 62678). (Except XC5K models)
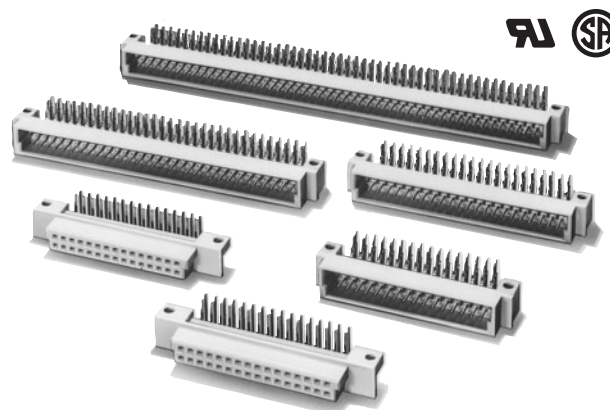
RoHS Compliant

■ Ratings and Characteristics

Rated current	2 A
Rated voltage	300 VAC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.)*
Insulation resistance	10^6 MΩ min. (at 100 VDC)
Dielectric strength	1,000 VAC for 1 min (leakage current: 1 mA max.)
Total insertion force	0.59 N max. per contact
Removal force	0.15 N min. (with test gauge, t = 0.56 mm)
Insertion durability	50 times
Ambient operating temperature	Operating: −55 to 125°C (with no icing)

*The XC5K is 30mΩ max. (at 20 mV DC max., 100 mA max.)

■ Materials and Finish

Type		Plugs	Sockets
Housings		Fiber-glass reinforced PBT resin (UL94V-0)/gray	
Contacts	Mating end	Brass/nickel base, 0.15-μm gold plating	Phosphor bronze/nickel base, 0.15-μm gold plating
	Terminal	Brass/nickel base, 2.0-μm tin plating	Phosphor bronze/nickel base, 2.0-μm tin plating

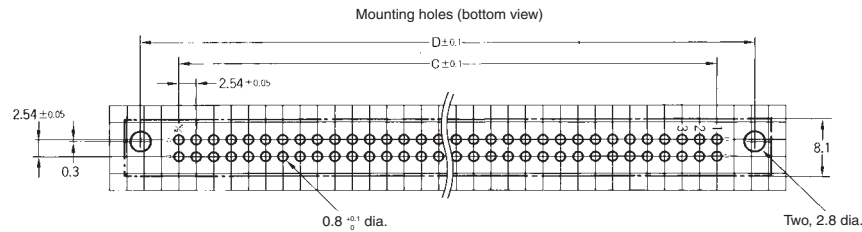# XC5B Double-row Sockets, DIN-style Compatible

■ Dimensions

XC5B-□□31-0
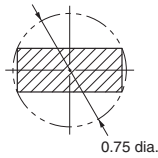**XC5B-□□31-3**
(With straight DIP terminals)
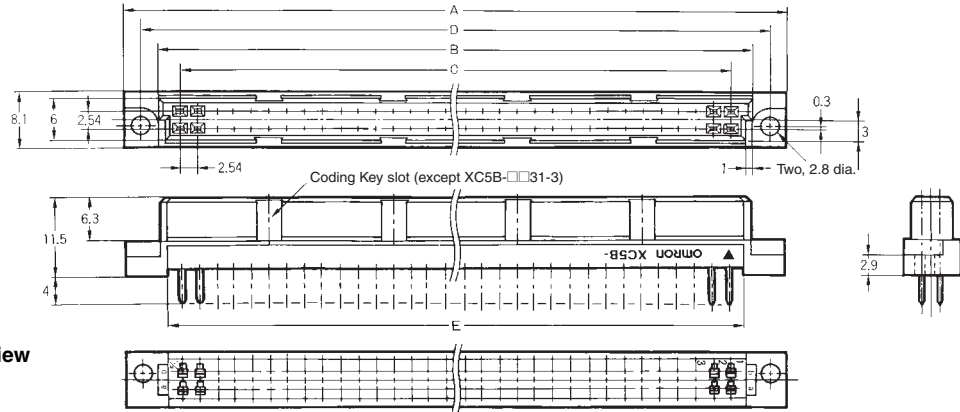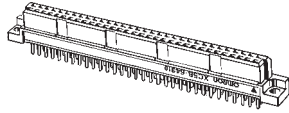
XC5B
DIP terminal cross-section view

0.75 dia.

Coding Key slot (except XC5B-□□31-3)

Mounting holes (bottom view)

Note: Contact numbers are not marked on the product.

Dimensions

No. of contacts	Dimensions (mm)					Coding Key slot positions (contact No.)
	A	B	C	D	E	
10	26.2	16.4	10.16	21.42	14.4	---
14	31.3	21.5	15.24	26.50	19.4	---
16	33.8	24.0	17.78	29.04	22.0	---
20	38.9	29.1	22.86	34.12	27.1	3, 8
24	44.0	34.2	27.94	39.20	32.1	---
30	51.6	41.8	35.56	46.82	39.8	---
32	54.2	44.4	38.10	49.36	42.3	5, 12

No. of contacts	Dimensions (mm)					Coding Key slot positions (contact No.)
	A	B	C	D	E	
44	69.4	59.6	53.34	64.60	57.5	4, 9, 14, 19
50	77.0	67.2	60.96	72.22	65.2	5, 10, 16, 21
64	94.8	85.0	78.74	90.00	82.9	6, 13, 20, 27
100	140.5	130.7	124.46	135.72	128.7	10, 20, 31, 41

■ Ordering Information

No. of contacts	Terminal type	Model
10	Straight DIP terminals	XC5B-1031-3
14		XC5B-1431-3
16		XC5B-1631-3
20		XC5B-2031-0
24		XC5B-2431-3
30		XC5B-3031-3
32		XC5B-3231-0
44		XC5B-4431-0
50		XC5B-5031-0
64		XC5B-6431-0
100		XC5B-0131-0

Note: The XC5B-□□31-0 Connector with 20, 32, 44, 50, 64, or 100 contacts has the same housing as the standard DIN connector and has Coding Key slots, but these slots cannot be used. The 10-, 14-, 16-, 24- and 30- contact models (triple row) are custom-made so they do not have Coding Key slots.

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