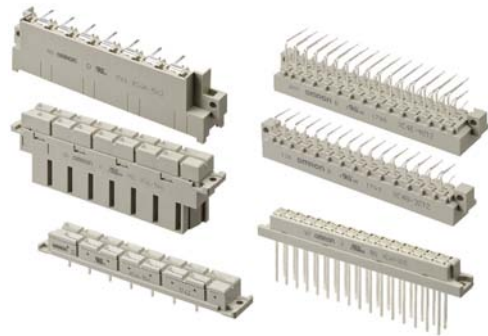


XC4

DIN Medium/High-Current Connectors

Medium/High-Current Connectors Conform to DIN Standards.

- DIN 41612 compliance ensures full interchangeability.
- Sufficient creepage distance for medium/high-current and high-voltage circuit applications.



Connectors

Model	XC4A/B	XC4E/F	XC4G/H	XC4K/L
DIN connector type	F	E	D	H
Appearance				
Page	3 to 4	5 to 6	7 to 8	9 to 11

Model Number Structure

XC4□-□□ □ □
 (1) (2) (3) (4)

(1) Type

A : DIN F-type Plugs
 B : DIN F-type Sockets
 E : DIN E-type Plugs
 F : DIN E-type Sockets
 G : DIN D-type Plugs
 H : DIN D-type Sockets
 K : DIN H-type Plugs
 L : DIN H-type Sockets

(2) No. of contacts

15 : 15 contacts
 32 : 32 contacts
 48 : 48 contacts

(3) Metal plating

specifications of plugs
 1 : Gold palladium plating
 4 : Silver plating

(4) Terminal type

1 : Straight DIP terminals
 2 : Right-angle DIP terminals
 3 : Straight wrap terminals
 6 : Faston tab terminals

Ratings and Characteristics

Item	Model	XC4A/B	XC4E/F	XC4G/H	XC4K/L	Remarks
Rated current		6 A			15 A	2 A
Rated voltage		380 VAC	500 VAC			300 VAC
Contact resistance		15 mΩ max.			8 mΩ max.	At 20 mV, 100 mA max.
Insulation resistance		10 ⁶ MΩ min.				At 100 VDC
Dielectric strength		1,550 VAC			3,100 VAC	1 min (leakage current: 1 mA max.)
Total insertion force		74 N	1.23 N per contact	39.2 N	88 N	Max. value
Removal force		0.20 N	0.15 N	0.20 N		Min. value with a test gauge
Insertion durability		400 times				
Ambient operating temperature		-55 to 125°C				With no icing at low temperature

Materials and Finish

Model	Item	Category	Plugs/Sockets
XC4A-4812	Housings		Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Brass/nickel base, gold palladium plating
		Sockets	Brass/nickel base, tin plating
XC4B-4811	Housings		Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze nickel base, gold palladium plating
		Sockets	Phosphor bronze/nickel base, tin plating
XC4B-4813	Housings	Mating section	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
		Contact holders	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze nickel base, gold palladium plating
		Sockets	Phosphor bronze/tin plating
XC4E-3212	Housings		Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Brass/nickel base, gold palladium plating
		Sockets	Brass/nickel base, tin plating
XC4E-4812	Housings		Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Brass/nickel base, gold palladium plating
		Sockets	Brass/nickel base, tin plating
XC4F-3213	Housings	Mating section	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
		Contact holders	Fiber-glass reinforced PC resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze nickel base, gold palladium plating
		Sockets	Phosphor bronze/tin plating
XC4F-4813	Housings	Mating section	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
		Contact holders	Fiber-glass reinforced PC resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze nickel base, gold palladium plating
		Sockets	Phosphor bronze/tin plating
XC4G-3212	Housings		Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Brass/nickel base, gold palladium plating
		Sockets	Brass/nickel base, tin plating
XC4H-3213	Housings	Mating section	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
		Contact holders	Fiber-glass reinforced PC resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze nickel base, gold palladium plating
		Sockets	Phosphor bronze/tin plating
XC4K-1542	Housings		Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Brass/nickel base, silver plating
		Sockets	Brass/nickel base, silver plating (spare solder available at the tip of the terminal)
XC4L-1541	Housings	Mating section	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
		Contact holders	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze/silver plating
		Sockets	Phosphor bronze/nickel base, tin plating
XC4L-1546	Housings	Mating section	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
		Contact holders	Fiber-glass reinforced PBT resin (UL94 V-0)/gray
	Contacts	Plugs	Phosphor bronze/silver plating
		Sockets	Phosphor bronze/silver plating

Applicable Wrap Post Wire Sizes

AWG26, AWG24, AWG22, or AWG20
(Solid wire: 0.40 to 0.80 mm dia.)

Wrap Post Length

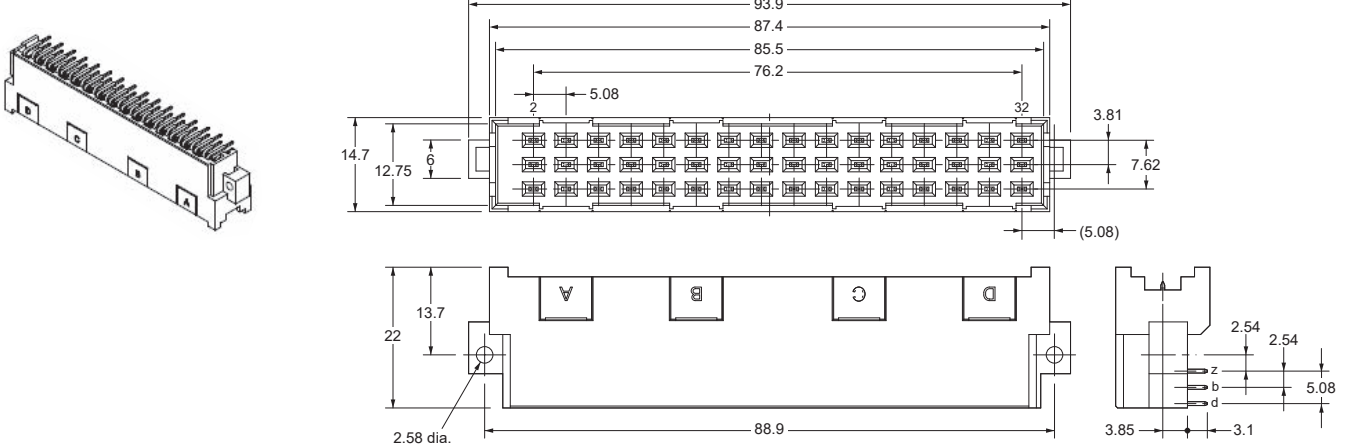
3 wires

XC4A DIN F-type Plugs

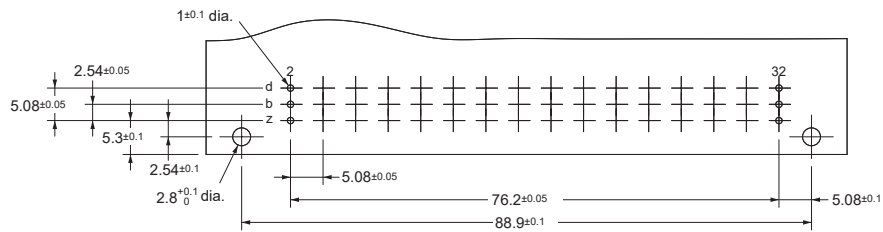
Dimensions

(unit: mm)

XC4A-4812
(With right-angle DIP terminals)



**Mounting holes
(Bottom View)**



Ordering Information

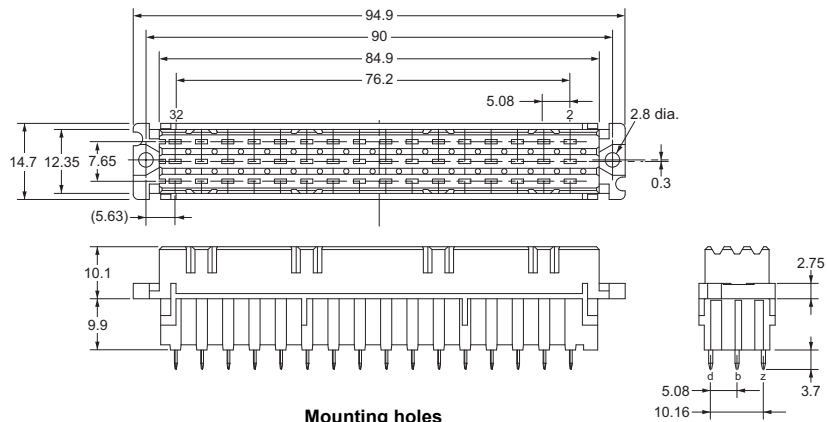
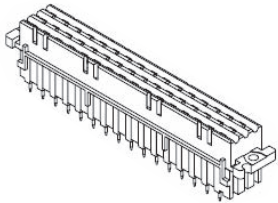
No. of contacts	Terminal type	Model
48	Right-angle DIP terminals	XC4A-4812

XC4B DIN F-type Sockets

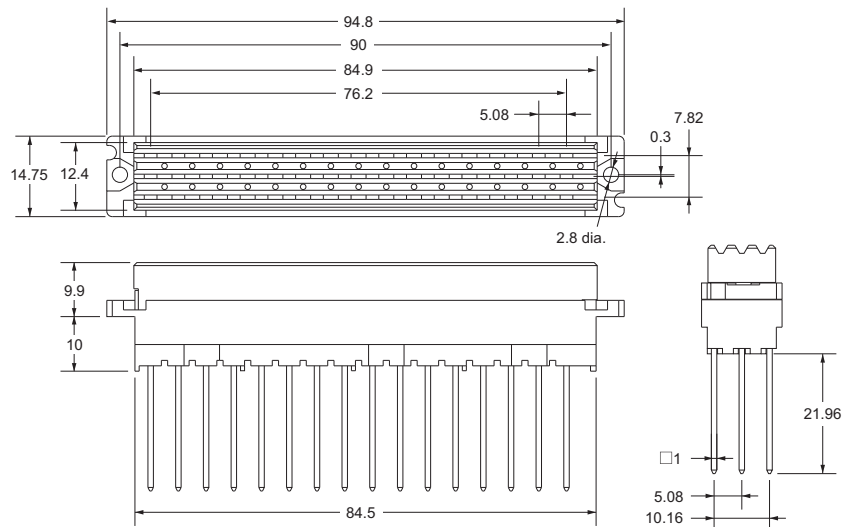
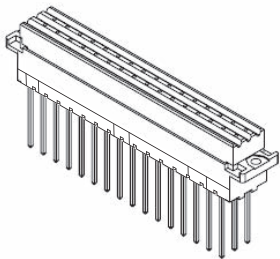
Dimensions

(unit: mm)

XC4B-4811 (With straight DIP terminals)



XC4B-4813 (With straight wrap terminals)



Ordering Information

No. of contacts	Terminal type	Model
48	Straight DIP terminals	XC4B-4811
	Straight wrap terminals	XC4B-4813

XC4E DIN E-type Plugs

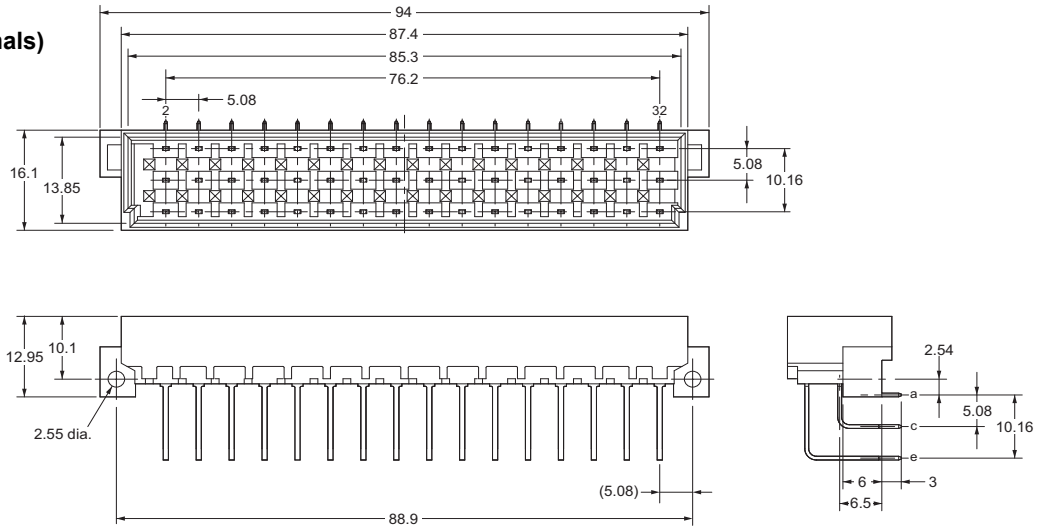
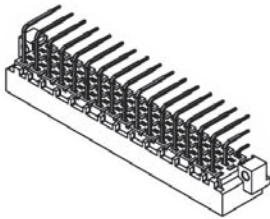
Dimensions

(unit: mm)

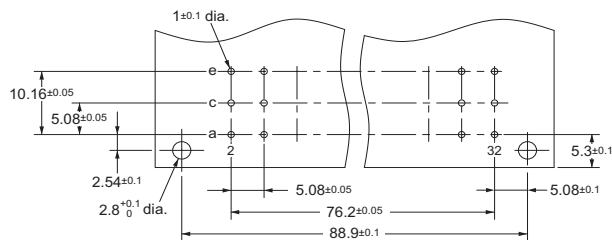
XC4E-4812

XC4E-3212

(With right-angle DIP terminals)



Mounting holes
(Bottom View)



Note: The mounting holes in the above diagrams are for the 48-contact Plug.
The 32-contact Plug does not have the center row (C in the above diagrams).

Ordering Information

No. of contacts	Terminal type	Model
48	Right-angle DIP terminals	XC4E-4812
32 *	Right-angle DIP terminals	XC4E-3212

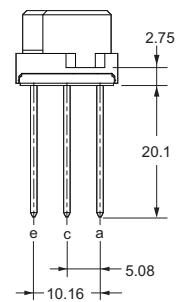
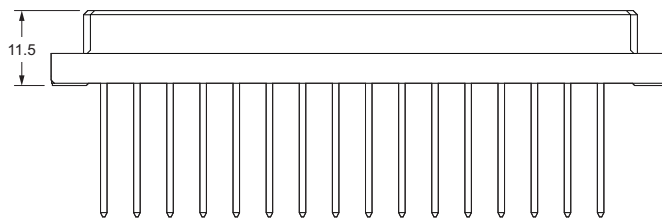
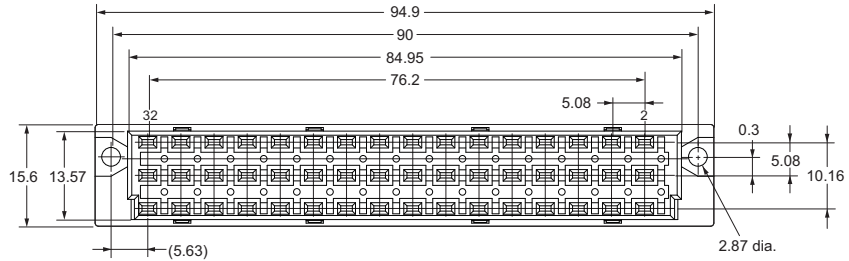
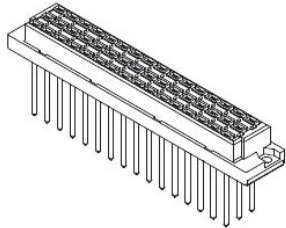
* Has no center row (row b).

XC4F DIN E-type Sockets

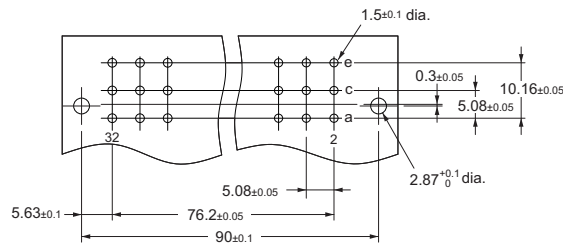
Dimensions

(unit: mm)

XC4F-4813
XC4F-3213
(With straight wrap terminals)



Mounting holes
(Bottom View)



Note: The mounting holes in the above diagrams are for the 48-contact Plug.
The 32-contact Plug does not have the center row (C in the above diagrams).

Ordering Information

No. of contacts	Terminal type	Model
48	Straight wrap terminals	XC4F-4813
32 *	Straight wrap terminals	XC4F-3213

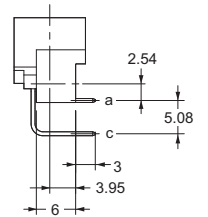
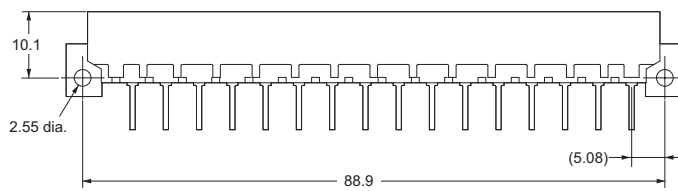
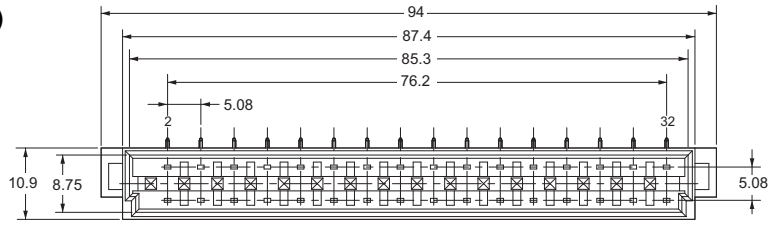
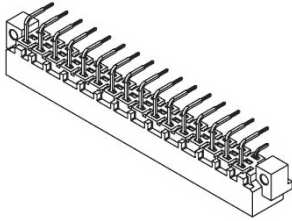
* Has no center row (row b).

XC4G DIN D-type Plugs

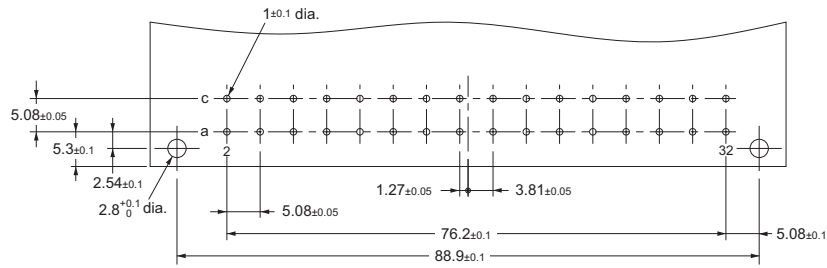
Dimensions

(unit: mm)

XC4G-3212
(With right-angle DIP terminals)



**Mounting holes
(Bottom View)**



Ordering Information

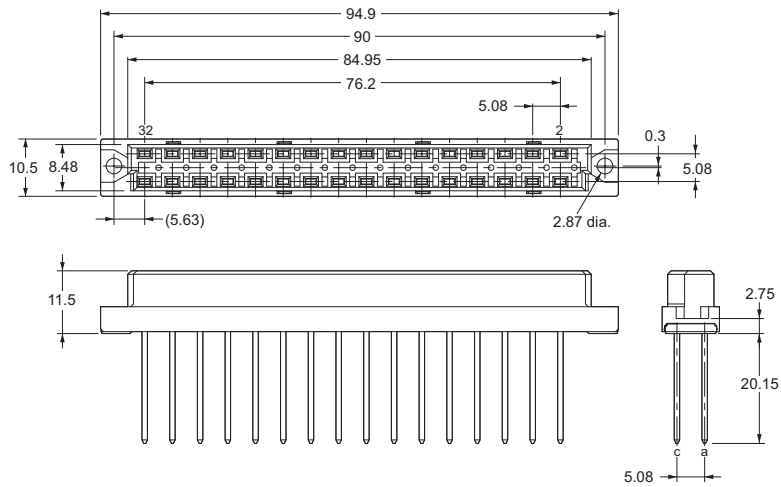
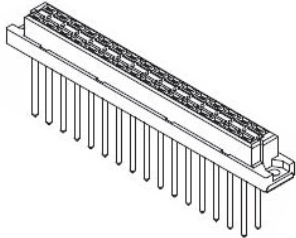
No. of contacts	Terminal type	Model
32	Right-angle DIP terminals	XC4G-3212

XC4H DIN D-type Sockets

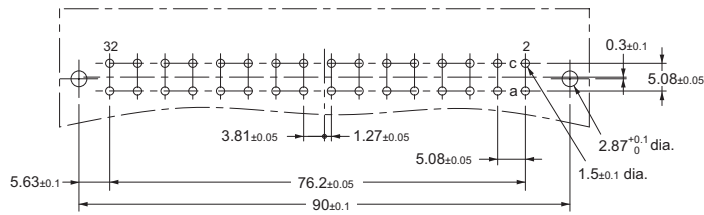
Dimensions

(unit: mm)

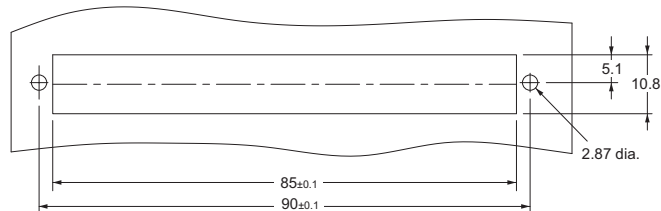
XC4H-3213 (With straight wrap terminals)



Mounting holes
(Bottom View)



Panel dimensions
(Top View)



Ordering Information

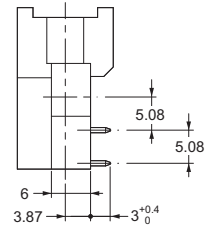
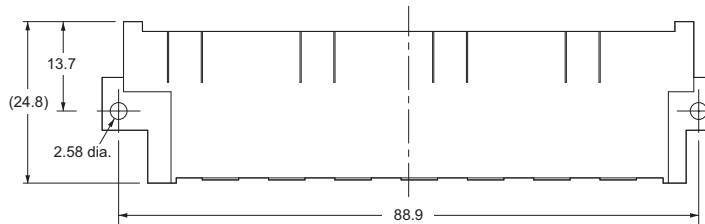
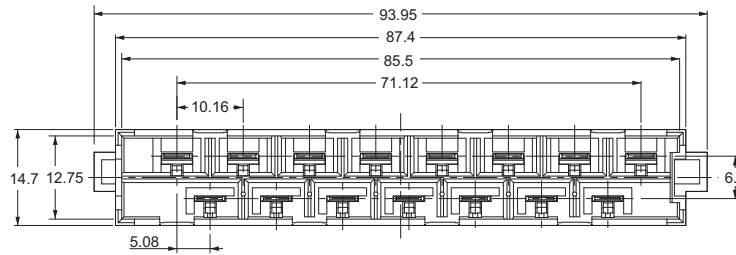
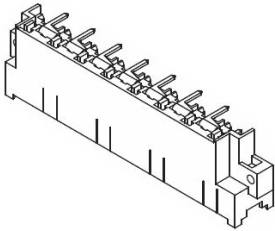
No. of contacts	Terminal type	Model
32	Straight wrap terminals	XC4H-3213

XC4K DIN H-type Plugs

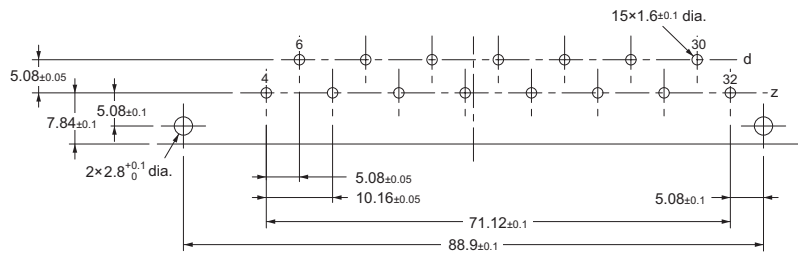
Dimensions

(unit: mm)

XC4K-1542
(With right-angle DIP terminals)



**Mounting holes
(Bottom View)**



Ordering Information

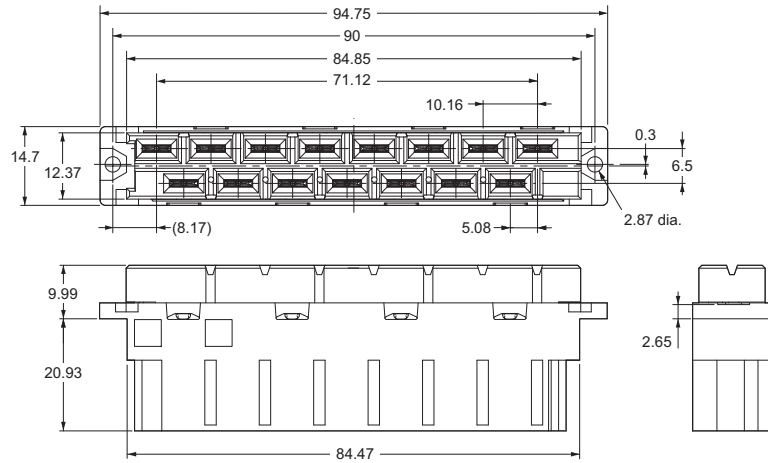
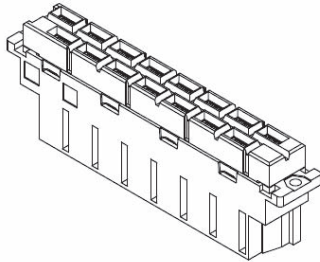
No. of contacts	Terminal type	Model
15	Right-angle DIP terminals	XC4K-1542

XC4L DIN H-type Sockets, Faston Tab Terminals

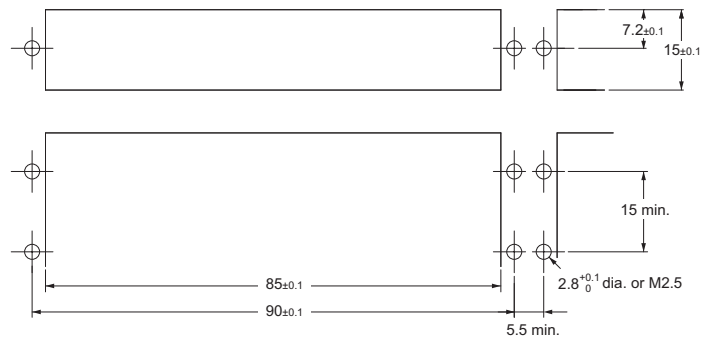
Dimensions

(unit: mm)

XC4L-1546 (With Faston tab terminals)



Panel dimensions



Ordering Information

No. of contacts	Terminal type	Model
15	Faston tab terminals (See note.)	XC4L-1546

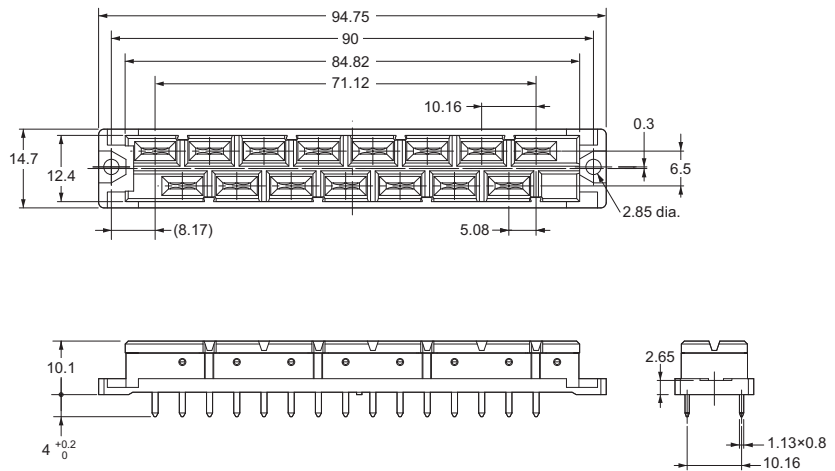
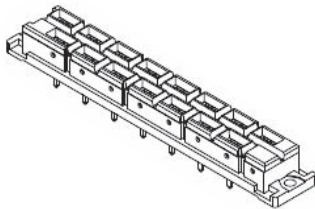
Note: The applicable contact is a #250 Faston receptacle.

XC4L DIN H-type Sockets, Straight DIP Terminals

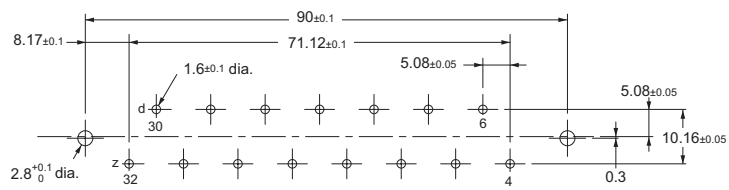
Dimensions

(unit: mm)

XC4L-1541
(With straight DIP terminals)



**Mounting holes
(Bottom View)**



Ordering Information

No. of contacts	Terminal type	Model
15	Straight DIP terminals	XC4L-1541

Mating diagrams

(unit: mm)

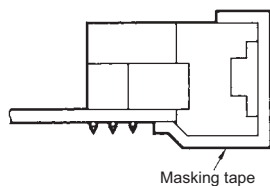
Model	XC4A/B	XC4E/F
DIN connector type	F	E
Mating diagrams		
Model	XC4G/H	XC4K/L
DIN connector type	D	H
Mating diagrams		

Precautions

Correct Use

● Automated Soldering

- Use tape to mask Right-angle Connectors before automated soldering.



● Automated Soldering Conditions (Jet Flow)

1. Soldering temperature: $250 \pm 5^\circ\text{C}$
2. Continuous soldering time: Within 5 ± 1 s

Approval Standard

The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

Model	Standard	File No.	Rating
XC4A-4812	UL/C-UL certified product (Recognized)	E103202	---
XC4B-4811	UL/C-UL certified product (Recognized)	E103202	---
XC4B-4813	UL/C-UL certified product (Recognized)	E103202	---
XC4E-4812	UL/C-UL certified product (Recognized)	E103202	---
XC4E-3212	UL/C-UL certified product (Recognized)	E103202	---
XC4F-4813	UL/C-UL certified product (Recognized)	E103202	---
XC4F-3213	UL/C-UL certified product (Recognized)	E103202	---
XC4G-3212	UL/C-UL certified product (Recognized)	E103202	---
XC4H-3213	UL/C-UL certified product (Recognized)	E103202	---
XC4K-1542	UL/C-UL certified product (Recognized)	E103202	---
XC4L-1546	UL/C-UL certified product (Recognized)	E103202	---
XC4L-1541	UL/C-UL certified product (Recognized)	E103202	---

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