

TCX-TYPE, TCXS-TYPE, HC-TYPE, XCTF-TYPE

FEATURES

■ Useful for branching and crossover wiring.

At the tip of the tab terminals, two receptacles can be mounted to one pole. You can easily conduct branching and crossover wiring from the mounting side.

■ Erroneous insertion preventive structure

To prevent accidental connection with other circuits and deformation to the tip of the tab terminals, an erroneous insertion preventive structure is provided.

■ Easy wiring

Since the upper and lower terminal screws are arranged in staggered positions, you can easily connect a wire to each terminal.

■ Mounting orientation is selectable.

Two mounting holes are provided in the L-shaped projection parts, which are individually at 90° angles. You can select the connector terminal block mounting orientation according to the shape of the installation space. (Except for TCX)

SPECIFICATIONS (RATINGS, PERFORMANCE)

Specification	Type	TCX	TCXS	HC	XCTF
Type		TCX-19P TCX-19T	TCXS-A-P TCXS-A-T	HC-23P HC-23T	XCTF-12P XCTF-12T
Rated insulation voltage (Ui)		600V	250V		600V
Rated current-carrying capacity (Ith)		10A			
Withstand voltage		2,500V AC / 1 min.	2,000V AC / 1 min.	2,500V AC / 1 min.	
Insulation resistance		1,000MΩ			
Lightning impulse		±6kV / 3 times for each pole (1.2 / 50μs)	±6kV / 3 times for each pole (1.2 / 50μs)	(Between live parts and mounting panel) ±7kV (Between live parts) ±4.5kV	±7kV / 3 times for each pole (1.2 / 50μs)
Shock resistance		30 G or more, along each axis			
Contact resistance		10 mΩ max. between end terminals (initial value)			
Short-time current		200A 1 sec.			
Operating ambient temperature		-10 to 50°C			
Relative humidity		85% max.			
No. of poles		19 poles	23 poles		12 poles
Screw size		M4×9			
Applicable wire size	Plug	0.75 to 2mm²			
	Terminal block	5.5 mm² max.			
Applicable receptacle		MIC Mark II 172774-4 (manufactured by AMP) (Sold separately)			

HOW TO ORDER (Plug and terminal block set)

TCX type connector

TCX-19PT

Basic type

Pole No.

Plug

Terminal block

TCXS type connector

TCXS-A-TP

Basic type

Configuration

Pole No.

Plug

HC type connector

HC-23PT

Basic type

Pole No.

Plug

Terminal block

XCTF type connector

XCTF-12PT

Basic type

Pole No.

Plug

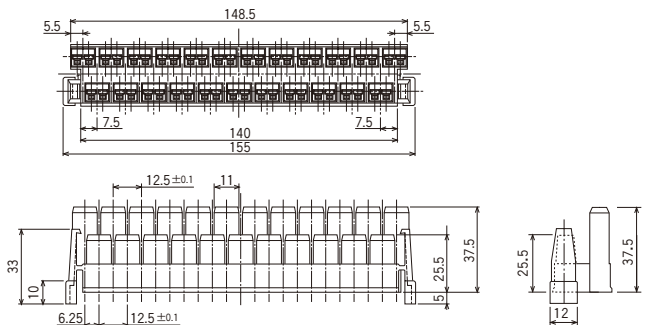
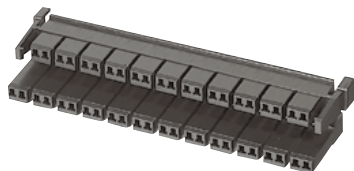
Terminal block



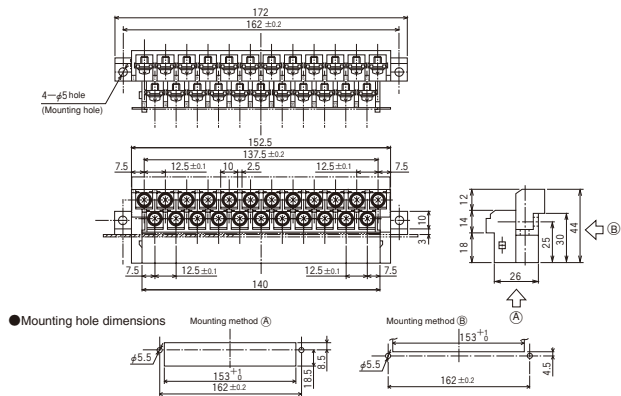
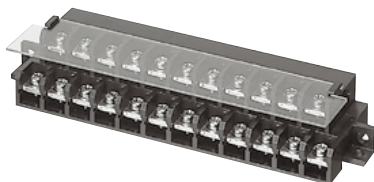
STANDARD PRODUCTS

Figure 1: Dimensions of the M3.5X7.5 and M4X8.5 terminal blocks. The diagram shows two views of the terminal blocks with detailed dimensions in millimeters. The top view shows a block with 19 terminals (M3.5X7.5) and 2 terminals (M4X8.5). The bottom view shows the same block from a different angle. Dimensions include overall width (88), height (51), and terminal pitch (2.5). The bottom view shows a block with 19 terminals (M3.5X7.5) and 2 terminals (M4X8.5). Dimensions include overall width (88), height (51), and terminal pitch (2.5).

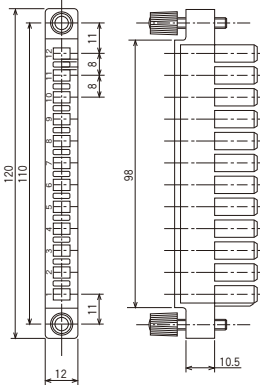
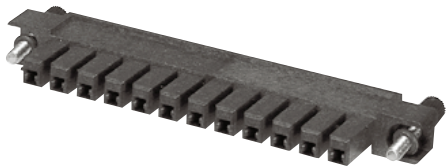
HC-23P (Plug)



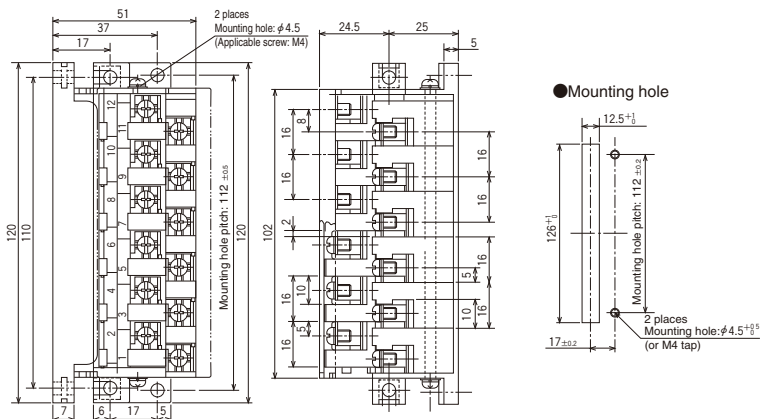
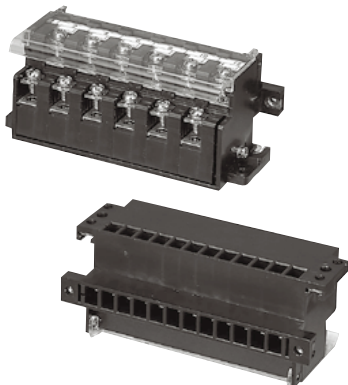
HC-23T (Terminal block)

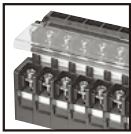


XCTF-12P



XCTF-12T





CONNECTOR TERMINAL BLOCK

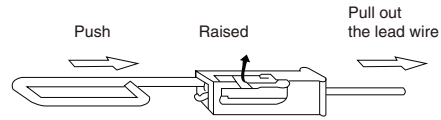
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ACCESSORIES

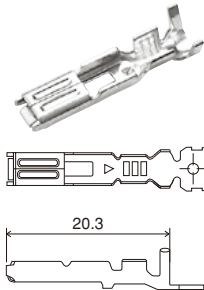
Removal tool

●MIC-NQ

Used to remove receptacles from the TCX, HC or XCTF plugs.



Receptacle contactor (AMP Inc. (MIC) mark II)



Applicable wire size (mm ²)	Insulation coat diameter (mm ²)	Material and finish	Model of receptacle		Model of crimp tool
			Tape	Loose piece	
0.3 to 0.89	1.5 to 2.6	Brass / Tin plated	172775-1	172776-1	91592-1
		Brass / Partially gold plated	172775-2	172776-2	
		Phosphor bronze / Tin plated	172775-4	172776-4	
0.5 to 2.27	2.1 to 3.4	Brass / Tin plated	172773-1	172774-1	1804014-1
		Brass / Partially gold plated	172773-2	172774-2	
		Phosphor bronze / Tin plated	172773-4	172774-4	