

### **FEATURES**

- ■The socket on the tab side is designed to enable 2 branches for 2 circuits with 4 terminals, 2 branches for 10 circuits with 20 terminals, and 4 branches for 10 circuits with 40 terminals.
  - A variation with screw terminals for 10 poles is available for leading in external wiring.
- ■The plug on the receptacle side is available in the hook movable types for 2 and 10 poles, the hook locked types for 1 and 10 poles, and the screw terminal type for 10 poles for use in leading in external wiring.
- ■The socket and plug can be quickly mounted to the switchboard by pressing them.
- ■The use of this connector allows for standardizing wiring and complying with the wire harness system (combined electric wire system) that enable pre-work by dividing the wiring work.

## **SPECIFICATIONS (RATINGS, PERFORMANCE)**

Specification Type	XC-P1	XC-P2M	XC-P10T	XC-P10M	XC-T10	XC-S4	XC-S20	XC-S40
Rated insulation voltage (Ui)				600V A	C / DC			
Rated current-carring capacity (Ith)				10	Α			
Applicable wire size		0.3mm² to 2.27mm² (The XC-T10 screw terminal is of 5.5 mm² maximum.)						
Withstand voltage	(Live part to	(Live part to assembly mounting panel) 2,500V AC / 1 min. / (Between live parts) 2,500V AC / 1 min.						
Lightning impulse	(Between live parts and mounting panel) ±7,000 V / 3 times for each pole (1.2 / 50µs) (Between live parts) ±4,500 V / 3 times for each pole (1.2 / 50µs)							
Short-time current	100A 2 seconds							
Contact resistance	Between poles 10 m Ω max. (initial value)							
Shock resistance	50 G or more / each axial direction							
Operating temperature	−20 to 50°C							
Storing temperature	−40 to 85°C							
Relative humidity	85% max.							
Altitude				2,000n	n max.			

# **HOW TO ORDER**

See the product coding.

## **PRODUCT CODING**



## STANDARD PRODUCTS







XC-S4,S20,S40 XC-B,M,T tub





12.5 + 8



- ■1-circuit, 1-terminal type
- ■This plug is applicable for connections to individual parts such as a meter, relay, control switch, and indicator.
- When this plug is connected with a tab attached to the mating part, it is locked.

#### **■**Color code

Code	Color
В	Black
R	Red
Υ	Yellow
С	Clear

# XC-P2M-C(Plug)



Applicable socket XC-S4,S20







- ■2-circuit, 2-terminal type ■When combined with the XC-S4, this plug allows for
- connecting 2 circuits. ■Pressing the hook unlocks the connection and allows for removing the plug.
- ■The plug may be combined with the XC-S20.

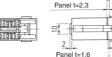
### ■Color code

Code	Color
С	Clear

# XC-S4-C (Socket)



Applicable plug XC-P1,P2M









#### ■2-circuit, 4-terminal type (2 branches)

■When the XC-P1 and XC-P2M are combined, 2 circuits can be connected by 2 branches.

### ■Color code

Code	Color
С	Clear

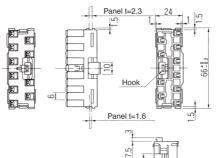
## STANDARD PRODUCTS

## XC-P10T-Color (Plug)

\* Hard-to-unlock design



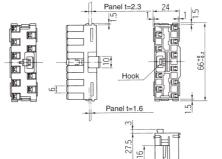
Applicable socket XC-S20.S40.T10



- ■10-circuit, 10-terminal type
- When combined with the XC-S20, S40, and T10, this connector allows for connecting 10 circuits.
- ■The XC-PĭOT type locks after connection, and cannot be removed by pressing the hook. To unlock it, cut the locking part of the hook with nippers or the like, or insert a slotted screwdriver into the hook and then turn the screwdriver.
- ■The color symbol is the same as the XC-P10M.

XC-P10M-Color (Plug)



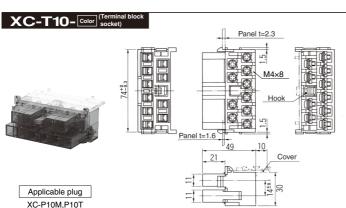


■The XC-P10M type can be quickly unlocked.

#### ■Unit color

- OTHE COIO				
Code	Color			
В	Black			
R	Red			
Y Yellow				
С	Clear			
RC	Red (clear)			
ос	Orange (clear)			
GC	Green (clear)			

Applicable socket XC-S20,S40,T10

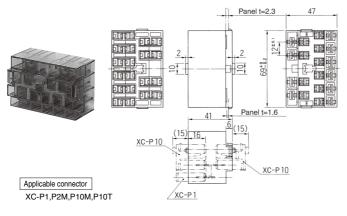


- ■10-circuit, 10-terminal type
- ■This socket is provided with an M4 screw terminal block on one side, which makes this socket applicable for connecting external cables (5.5 mm² maximum).
- The opening / closing cover is provided with a function of holding the symbol label (10 mm width by 1 mm thickness).

#### **■**Unit color

Code	Color		
С	Clear		
RC	Red (clear)		
ос	Orange (clear)		
GC	Green (clear)		
В	Black		

# XC-S20-Color (Socket)



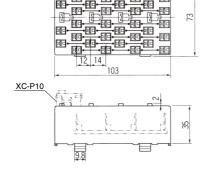
- ■10-circuit, 20-terminal (2 branches)
- ■When combined with the XC-P10M etc, this connector allows for connecting 10 circuits.
- ■When used with the XC-P1, this socket enables branching for 2 wires per circuit.

#### **■**Unit color

Code Color	
В	Black
R	Red
Υ	Yellow
С	Clear
RC	Red (clear)
ос	Orange (clear)
GC	Green (clear)

## XC-S40-B (Socket)







- ■10-circuit, 40-terminals (4 branches)
- ■This socket is a surfacemounted type that can be mounted on the panel to branch or relay to an adjacent unit.
- ■The socket is also useful as a terminal for crossover wiring.

### ■Unit color

Panel t=2.3

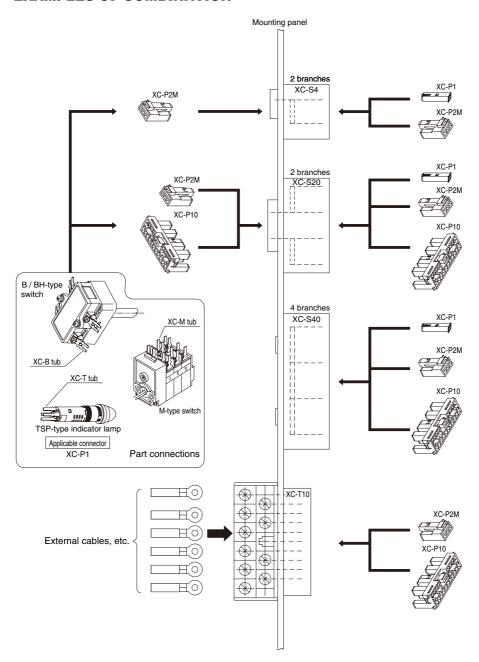
**†**10

Panel t=1.6

Code	Color
В	Black



# **EXAMPLES OF COMBINATION**



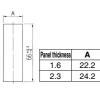
## **MOUNTING HOLE SIZE**





●XC-S4

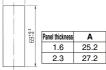
●XC-S20



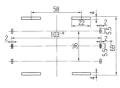


- A	
	1+0.2
<u> </u>	7
Panel thickr	ness

Panel thickness	Α
1.6	25.2
2.3	27.2







#### /NI=+==

1. ZZMounting holes marked with diagonal lines: t = 1.6

Α

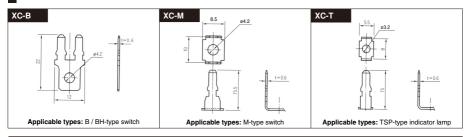
25.3

27.3

2. When the panel thickness is 2.3 mm, all specified holes are required.

## **ACCESSORIES**

## Tub



### Removal tool



Used to remove a socket (XC-S4, XC-S20, XC-S40) or plug (XC-P1).



## XC-P1-R

Used to remove the plug (XC-P1) inserted into the tab.

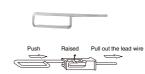
Hook the blade of the XC-P1-R onto the

receptacle through the slit of the plug.



## MIC-NQ

Used to remove the receptacle from the XC plug.



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



1	
	20.3
	A

Applicable wire size	Insulation coat diameter	Material and finish	Model of	Instruction	
(mm²) diameter (mm²)		waterial and linish	Tape	Loose piece	manual for crimp tool
0.3 to 0.89	1.5 to 2.6	Brass / Tin plated	172775-1	172776-1	91592-1
		Brass / Partially gold plate	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	
		Brass / Partially gold plated	172773-2	172774-2	755400-1
		Phosphor bronze / Tin plated	172773-4	172774-4	