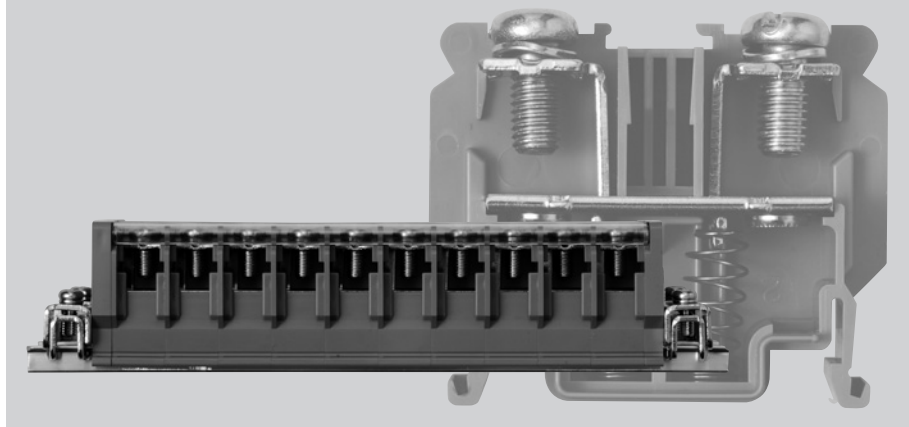




TERMINAL BLOCK WITH WIRE DROPPING-OFF PREVENTION FUNCTION

TQ TYPE

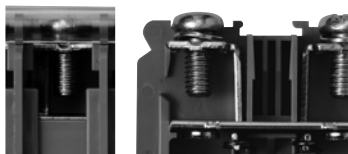
The wire dropping-off prevention function prevents a wiring error and saves time for wiring check.



FEATURES

Use of wire dropping-off prevention function

The TQ type adds a wire dropping-off prevention function to the conventional up-screw type terminal block, reducing check work after wiring. Three types of terminal blocks (TQ-5.5, TQ-8 and TQ-14) are available, covering cable sizes of 2 to 14 mm².



Enabling quick DIN-rail mounting and removal

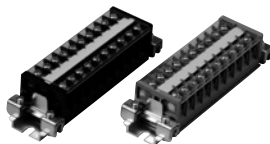
With the ribs outside of the terminal block, each unit can be easily mounted and removed.



Differentiation by color

The color of the terminal block is gray, which can be easily differentiated from conventional terminal blocks.

* The resin material is high-performance engineering plastic (modified PPE resin), which is the same as that for conventional models.



Applicable to test tools

As with the conventional model (TJ type), the TQ type can be easily used for withstand voltage test and sequence test. With two types of test tools newly added to those for the conventional model, expansion of product lineup is expected.



Size reduction from conventional models (TJ type)

TQ-5.5 has been made 1 mm shorter than TJ-5.5. TQ-8 and

TQ-14 have been made 3 mm shorter than TJ-14.

The TQ type enables effective use of a limited space.

SPECIFICATIONS (RATINGS, PERFORMANCE, STANDARD OPERATING CONDITION)

Applicable standard : NECA C2811 (2012), IEC 60947-7-1 (2009), JISC 8201-7-1 (2016)

Specification	Type	TQ-5.5	TQ-8	TQ-14
Rated insulation voltage (Ui)	Pollution degree 2	1,000V		
	Pollution degree 3	600V		
Rated current-carrying capacity (Ith)		30A	40A	60A
Rated cross-section		5.5mm ²	8mm ²	14mm ² *
Screw size		M4×8.5	M5×11	
Applicable crimp terminal		R2-4 / R3.5-4 / R5.5-4	R3.5-5 / R5.5-5 / R8-5	R5.5-5 / R8-5 / R14-5
Power-Frequency withstand voltage		3,000V AC / 1 min.		
Rated impulse withstand voltage		8kV		
Ambient operating temperature		-25 to 60°C		
Storing temperature		-40 to 85°C		
Altitude		2,000 m or less		

* Insulation treatment suitable for the working voltage should be applied to the crimp terminal.

* Consider with ambient operating temperature, current-carrying capacity, wire size, please use the heat-resistant wires as necessary.

How to order

TQ - 5.5 **R × 36** **XD - 23**
 ① ② ③ ④ **Assembly dimensions**

No.	Item	Code	Detail		Remark
①	Basic type	TQ-5.5	Applicable wire size (mm ²)	5.5	Unit thickness : 11mm
		TQ-8		8	Unit thickness : 14mm
		TQ-14		14	Unit thickness : 14mm
②	Color	(blank)	Gray		Munsell color code : 7.5BG4/1.5
		R	Red		Munsell color code : 7.5R4.5/14
③	No. of poles	1 to max.	TQ-5.5	1 to 50	Max. pole No. is less than 600mm of rail length. (In case over 600mm, max. pole No. is less than 1,000mm of reinforced rail (TKB-D).)
			TQ-8	1 to 39	
			TQ-14	1 to 39	
④	Rail	XD	TXB-D rail type		Punched rail (Recommended maximum length: 600mm)
		XF	TXB-F rail type		U-cut rail (Recommended maximum length: 600mm)
		KD	TKB-D rail type		Reinforced punched rail (Recommended maximum length: 1000mm)



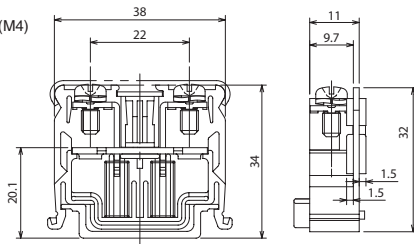
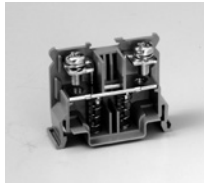
TERMINAL BLOCK WITH WIRE DROPPING-OFF PREVENTION FUNCTION

TQ TYPE

STANDARD PRODUCTS

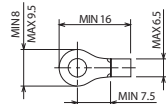
TQ-5.5 (30A)

Applicable wire size: 2 to 5.5 mm² (M4)



* Red color terminal specification also available. (TQ-5.5R)

●Applicable crimp terminal



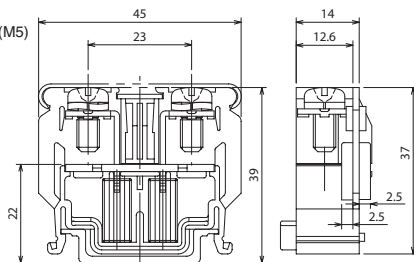
* With insulating cover

●Applicable accessories

End plate	TQE-5.5A/B
Standard marker strip	TUM-2 0.5T
Standard rail	TXB
End clamp	TXL
Cover	TUC-3

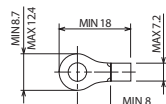
TQ-8 (40A)

Applicable wire size: 3.5 to 8 mm² (M5)



* Red color terminal specification also available. (TQ-8R)

●Applicable crimp terminal



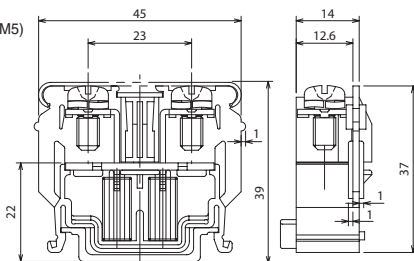
* With insulating cover

●Applicable accessories

End plate	TQE-8A/B
Standard marker strip	TUM-2 0.5T
Standard rail	TXB
End clamp	TXL
Cover	TUC-6

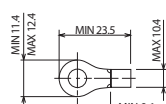
TQ-14 (60A)

Applicable wire size: 5.5 to 14 mm² (M5)



* Red color terminal specification also available. (TQ-14R)

●Applicable crimp terminal



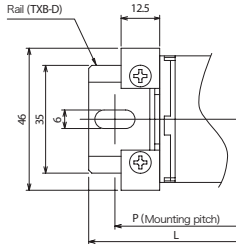
* With insulating cover

●Applicable accessories

End plate	TQE-14A/B
Standard marker strip	TUM-2 0.5T
Standard rail	TXB
End clamp	TXL
Cover	TUC-6

Outlines (combination)

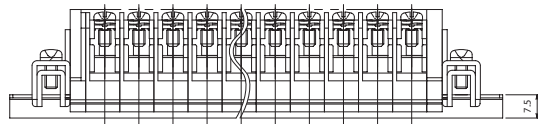
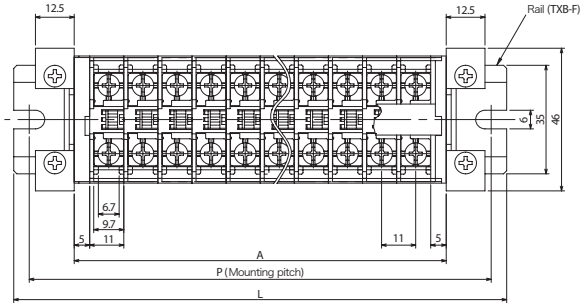
TQ-5.5



● Assembly dimensions (Representative dimensions)

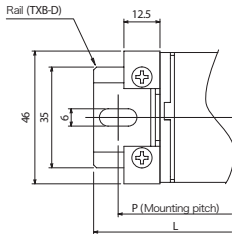
No. of units		1	5	10	15	20
A		21	65	120	175	230
TXB-F rail	P	50	90	145	200	255
	L	60	100	155	210	265
TXB-D rail	P	40	100	140	200	260
	L	57	117	157	217	277

No. of units		25	30	35	40	45	50
A		285	340	395	450	505	560
TXB-F rail	P	310	365	420	475	530	585
	L	320	375	430	485	540	595
TXB-D rail	P	320	360	420	480	540	580
	L	337	377	437	497	557	597



TQ-8、TQ-14

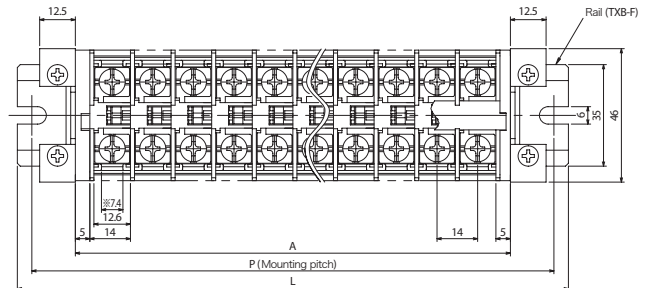
(TQ-8 and TQ-14 have the same outer dimensions, except for the rib shape.)



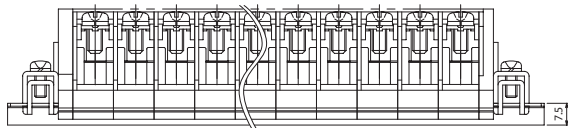
● Assembly dimensions (Representative dimensions)

No. of units		1	5	10	15	20
A		24	80	150	220	290
TXB-F rail	P	50	105	175	245	315
	L	60	115	185	255	325
TXB-D rail	P	60	100	180	240	320
	L	77	117	197	257	337

No. of units		25	30	35	39
A		360	430	500	556
TXB-F rail	P	385	455	525	585
	L	395	465	535	595
TXB-D rail	P	380	460	520	580
	L	397	477	537	597



※TQ-8: 7.4
TQ-14: 10.6



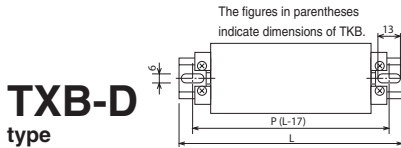
The above outline drawing is intended for TQ-8.



TERMINAL BLOCK WITH WIRE DROPPING-OFF PREVENTION FUNCTION

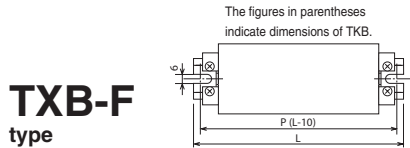
TQ TYPE

TABLE OF ASSEMBLED DIMENSIONS



TXB-D
type

Type Pole	TQ-5.5			TQ-8,14		
	P	L	Rail	P	L	Rail
1	40	57	XD-3	60	77	XD-4
2	60	77	XD-4	60	77	XD-4
3	80	97	XD-5	80	97	XD-5
4	80	97	XD-5	100	117	XD-6
5	100	117	XD-6	100	117	XD-6
6	100	117	XD-6	120	137	XD-7
7	120	137	XD-7	140	157	XD-8
8	120	137	XD-7	140	157	XD-8
9	140	157	XD-8	160	177	XD-9
10	140	157	XD-8	180	197	XD-10
11	160	177	XD-9	200	217	XD-11
12	160	177	XD-9	200	217	XD-11
13	180	197	XD-10	220	237	XD-12
14	200	217	XD-11	240	257	XD-13
15	200	217	XD-11	240	257	XD-13
16	220	237	XD-12	260	277	XD-14
17	220	237	XD-12	280	297	XD-15
18	240	257	XD-13	280	297	XD-15
19	240	257	XD-13	300	317	XD-16
20	260	277	XD-14	320	337	XD-17
21	260	277	XD-14	340	357	XD-18
22	280	297	XD-15	340	357	XD-18
23	300	317	XD-16	360	377	XD-19
24	300	317	XD-16	380	397	XD-20
25	320	337	XD-17	380	397	XD-20
26	320	337	XD-17	400	417	XD-21
27	340	357	XD-18	420	437	XD-22
28	340	357	XD-18	420	437	XD-22
29	360	377	XD-19	440	457	XD-23
30	360	377	XD-19	460	477	XD-24
31	380	397	XD-20	480	497	XD-25
32	380	397	XD-20	480	497	XD-25
33	400	417	XD-21	500	517	XD-26
34	420	437	XD-22	520	537	XD-27
35	420	437	XD-22	520	537	XD-27
36	440	457	XD-23	540	557	XD-28
37	440	457	XD-23	560	577	XD-29
38	460	477	XD-24	560	577	XD-29
39	460	477	XD-24	580	597	XD-30
40	480	497	XD-25			
41	480	497	XD-25			
42	500	517	XD-26			
43	520	537	XD-27			
44	520	537	XD-27			
45	540	557	XD-28			
46	540	557	XD-28			
47	560	577	XD-29			
48	560	577	XD-29			
49	580	597	XD-30			
50	580	597	XD-30			

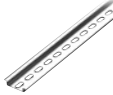
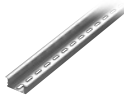


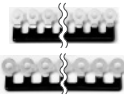
TXB-F
type

Type Pole	TQ-5.5			TQ-8,14		
	P	L	Rail	P	L	Rail
1	50	60	XF-60	50	60	XF-60
2	60	70	XF-70	65	75	XF-75
3	70	80	XF-80	80	90	XF-90
4	80	90	XF-90	95	105	XF-105
5	90	100	XF-100	105	115	XF-115
6	105	115	XF-115	120	130	XF-130
7	115	125	XF-125	135	145	XF-145
8	125	135	XF-135	150	160	XF-160
9	135	145	XF-145	165	175	XF-175
10	145	155	XF-155	175	185	XF-185
11	160	170	XF-170	190	200	XF-200
12	170	180	XF-180	205	215	XF-215
13	180	190	XF-190	220	230	XF-230
14	190	200	XF-200	235	245	XF-245
15	200	210	XF-210	245	255	XF-255
16	215	225	XF-225	260	270	XF-270
17	225	235	XF-235	275	285	XF-285
18	235	245	XF-245	290	300	XF-300
19	245	255	XF-255	305	315	XF-315
20	255	265	XF-265	315	325	XF-325
21	270	280	XF-280	330	340	XF-340
22	280	290	XF-290	345	355	XF-355
23	290	300	XF-300	360	370	XF-370
24	300	310	XF-310	375	385	XF-385
25	310	320	XF-320	385	395	XF-395
26	325	335	XF-335	400	410	XF-410
27	335	345	XF-345	415	425	XF-425
28	345	355	XF-355	430	440	XF-440
29	365	375	XF-375	445	455	XF-455
30	365	375	XF-375	455	465	XF-465
31	380	390	XF-390	470	480	XF-480
32	390	400	XF-400	485	495	XF-495
33	400	410	XF-410	500	510	XF-510
34	410	420	XF-420	515	525	XF-525
35	420	430	XF-430	525	535	XF-535
36	435	445	XF-445	540	550	XF-550
37	445	455	XF-455	555	565	XF-565
38	455	465	XF-465	570	580	XF-580
39	465	475	XF-475	585	595	XF-595
40	475	485	XF-485			
41	490	500	XF-500			
42	500	510	XF-510			
43	510	520	XF-520			
44	520	530	XF-530			
45	530	540	XF-540			
46	545	555	XF-555			
47	555	565	XF-565			
48	565	575	XF-575			
49	575	585	XF-585			
50	585	595	XF-595			

ACCESSORIES

LIST OF APPLICABLE ACCESSORIES

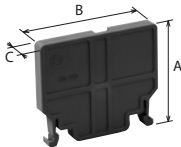
Accessory	End plate	Marker strip	Marker strip case	Marker sheet	Aluminum rail (Applicable)	Aluminum rail (Semi-applicable)
Type						
TQ-5.5	TQE-5.5 A	TUM-2 0.5T	TUM marker strip case 10	TJ-5.5 marker sheet	TXB (DIN rail)	TKB (reinforced DIN rail)
	TQE-5.5 B					
TQ-8	TQE-8 A			TJ-14 marker sheet		
	TQE-8 B					
TQ-14	TQE-14 A			TJ-14 marker sheet		
	TQE-14 B					

Accessory	End clamp (Applicable)	End clamp (Semi-applicable)	Cover	Jumper	Note
Type					
TQ-5.5	TXL	TJL	TUC-3	SB11CB-□ (With insulating cover)	Short-circuit bar: □ indicates a number of poles. 2P, 3P, 4P, 5P, 12P
TQ-8			TUC-6	SB14CB-□ (With insulating cover)	Short-circuit bar: □ indicates a number of poles. 2P, 3P, 4P, 5P, 12P
TQ-14					

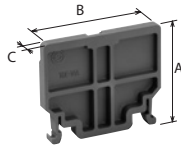
End plate

(Order unit: 100)

●TQE-□A (Ventral side)



●TQE-□B (Dorsal side)



Type name	TQE-5.5A TQE-5.5B	TQE-8A TQE-8B	TQE-14A TQE-14B
A	33	38	38
B	40	45	45
C	5	5	5

* Plates A and B should be used as a set.



TERMINAL BLOCK WITH WIRE DROPPING-OFF PREVENTION FUNCTION

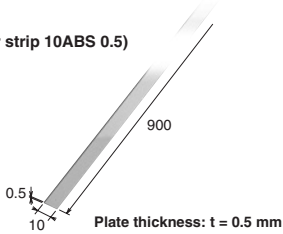
TQ TYPE

ACCESSORIES

Marker strip

(Order unit: 100)

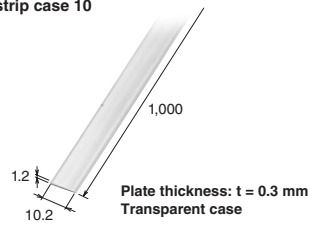
- TUM-2 0.5T
(TUM marker strip 10ABS 0.5)



Marker strip case

(Order unit: 100)

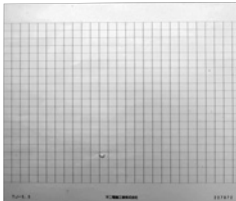
- TUM marker strip case 10



Marker sheet

(Order unit: 100)

Printable area: A4-size

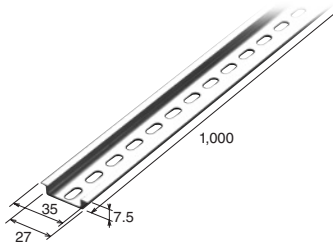


Type name	TJ-5.5 maker sheet	TJ-14 maker sheet
Pitch	11	14

Aluminium rail

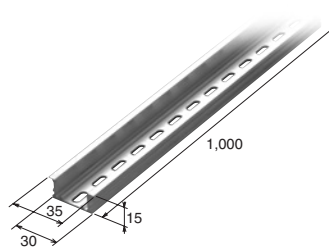
- TXB (DIN rail)

(Order unit: 50)



- TKB (reinforced DIN rail)

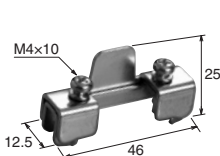
(Order unit: 20)



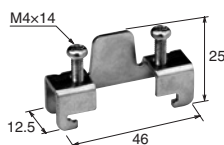
End clamp

(Order unit: 100)

- TXL (for TXB)



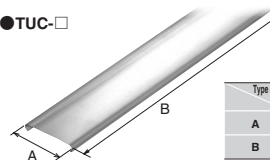
- TJL (for TXB)



Cover

(Order unit: 20)

- TUC-□



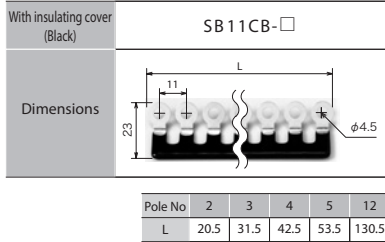
Type name	TUC-3 TUC-3-V0	TUC-6 TUC-6-V0
A	40	45
B	1,000	1,000

*The end "V0" is a flame retardant grade UL94V-0 specification product.

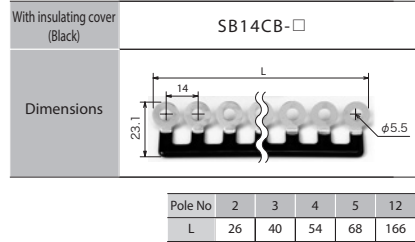
Jumper

(Order unit: 10)

● **SB11CB-□** * Rated insulation voltage (Ui) 30A.



● **SB14CB-□** * Rated insulation voltage (Ui) 30A.



Name plate mount

(Order unit: 50)

● **TX NP mount S**

● **TX NP mount lens**



* The NP mount can be attached to TXL (end clamp).

Rail cap

Please refer to the page C29 for the rail cap.

Test tool accessories

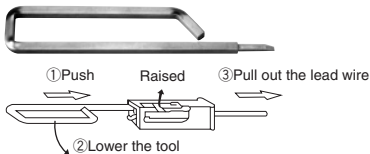
Remover

(Order unit: 1)

● **MIC-NQ**

This tool is used to remove a receptacle from the plug of the XC.

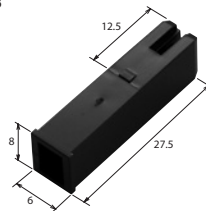
* Please see page C66 for instruction of XC.



Plug

(Order unit: 100)

● **XC-P1-B**



Receptacle contactor

(Order unit: 100)

● **AMP Inc. (MIC) mark II**

* For the instruction, refer to AMP Inc. manual, IS-259J (91592-1) and IS-260J (755400-1).



Applicable wire size (mm ²)	Insulation diameter (mm)	Material and coating	Model of receptacle		Model of crimp tool
			Chain	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	—	172776-2	
		Phosphor bronze / Tin plated	172775-4	—	
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	

* We handle the contactor.

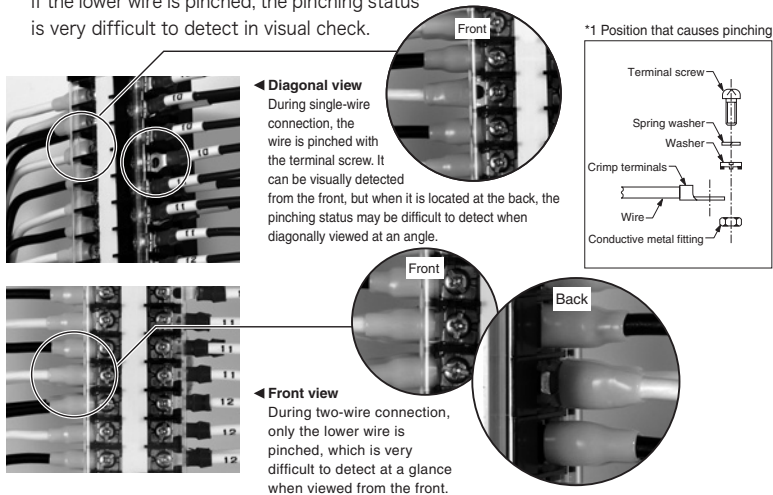


TQ TYPE

Wire dropping-off prevention function

■ Example of trouble

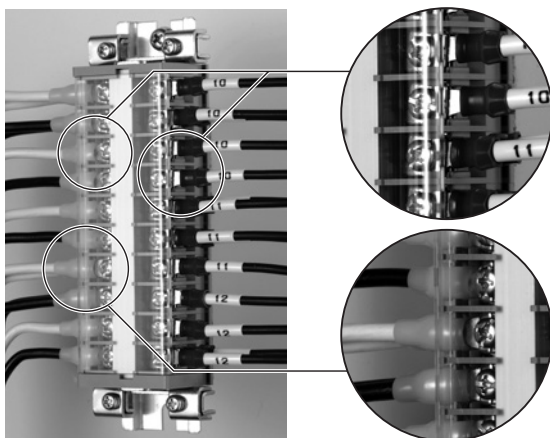
With the conventional model, each screw can be tightened even if a wire does not pass through the screw hole of the crimp terminal. Particularly during connection of two wires, if the lower wire is pinched, the pinching status is very difficult to detect in visual check.



Corrective structure

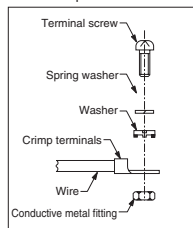
The guide ribs set the crimp terminal in a normal position (See *2).

This function can prevent crimp terminal pinching status, because the terminal cannot be placed at a position that causes "pinching" during screw tightening work.

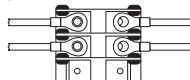


The color of the terminal block equipped with the wire dropping-off prevention function is gray. The gray terminal block does not allow wire pinching to be overlooked.

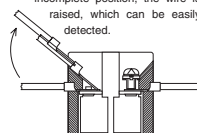
*2 Normal position



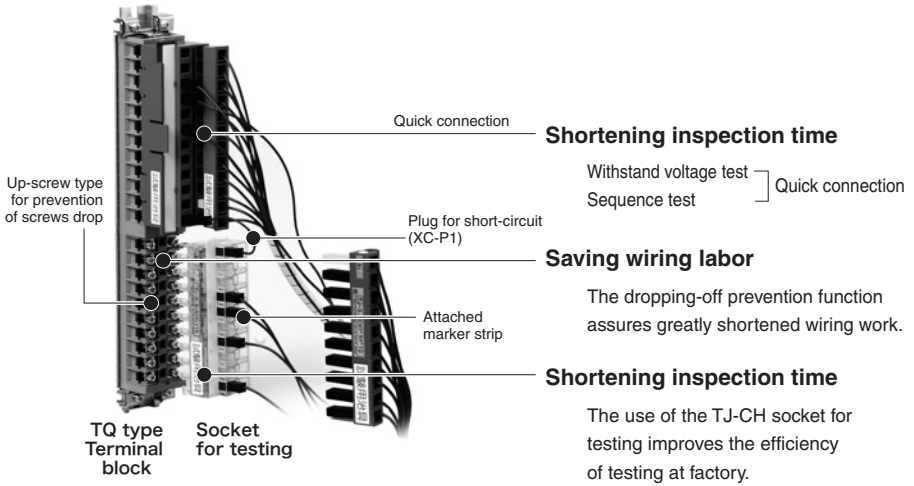
There are ribs on both sides of the unit. With this structure, a crimp terminal cannot be inserted in any position other than between the ribs.



If the terminal is placed at an incomplete position, the wire is raised, which can be easily detected.

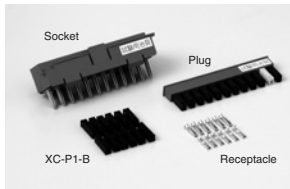


Applicable to test tools



* Wiring not supplied.

■ TJX-5.5CH 12P (12 poles dedicated type)



(For TQ-5.5)

* Receptacle contactor for standard attachment AMP Inc. 172774-1

■ TJ-5.5CH [Pole] PC (Connection type)



(For TQ-5.5)

* Receptacle contactor for standard attachment AMP Inc. 172774-1

■ TJ-14CH [No. of poles] PC (Connection type)



(For TQ-8, TQ-14)

* Receptacle contactor for standard attachment AMP Inc. 172774-1