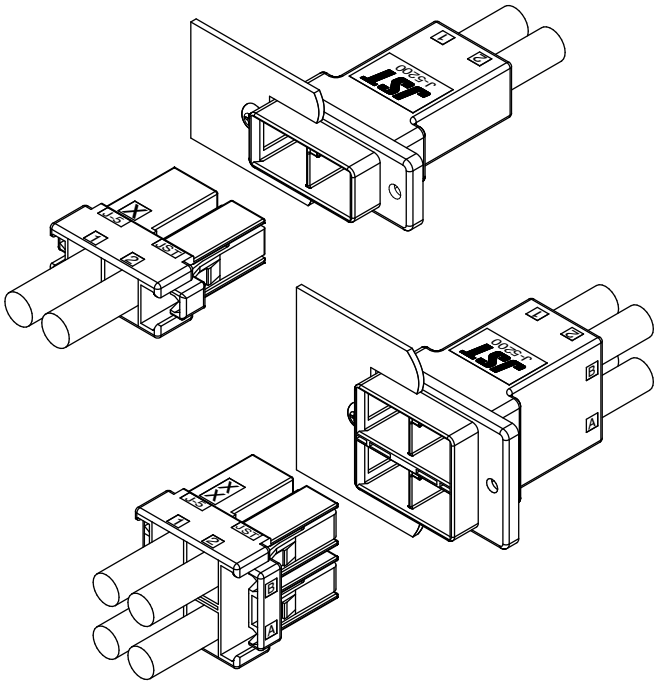


JFA CONNECTOR J5000 SERIES

11.0 mm pitch/Disconnectable Crimp style Wire-to-wire connectors



This connector is corresponding to large current up to 50 A with single circuit (when using AWG #8). The 4 and 6 circuits of the J5200 series Dual-row type can select either the bulk insertion of the receptacle housing or the module types.

- High current capacity
- Dual-spring construction
- Housing lance
- Clear “click feeling”

■ Standards

: Recognized E 60389

■ Specifications

- Current rating: AC/DC

Current unit: A

No. of circuits	Wire size (AWG)				
	#8	#10	#12	#14	#16
1	50	37	30	24	20
2	45	34	28	22	18
3	43	34	27	21	17
4	42	32	26	20	16
6	40	32	26	20	16
10	35	28	22	17	14

- Voltage rating: 600 V AC/DC
- Temperature range: −55℃ to +105℃ (including temperature rise in applying electrical current)
- Applicable wire: AWG #16 to #8

∗ Please note that the above general specifications may differ from the safety standards.

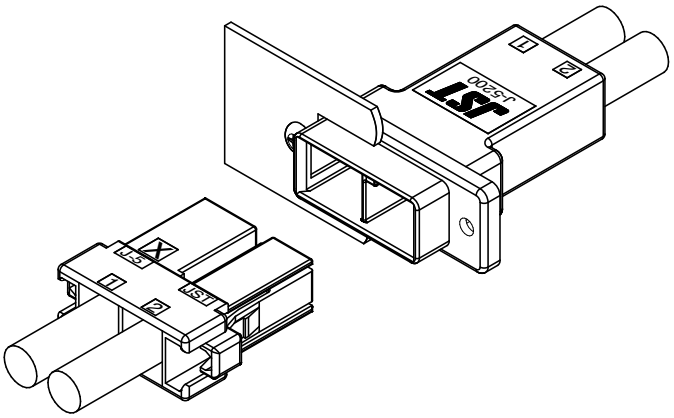
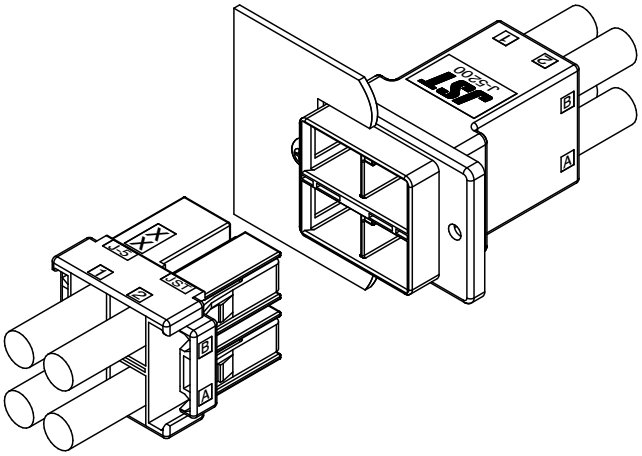
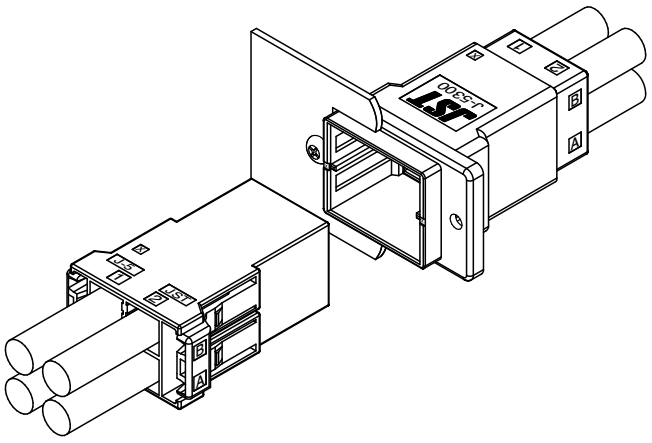
∗ In using the products, refer to “Handling Precaution for Terminals and Connectors”described on our website (Technical documents of Product information page).

∗ RoHS2 compliance

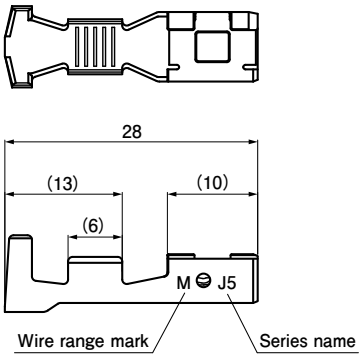
∗ Dimensional unit: mm

∗ Contact JST for details.

J5000 Series Products line-up

Type		11.0 mm pitch 600 V AC/DC Wire-to-wire Panel moumting Type
Side locking type (Line pitch: 14.5 mm)	J5200 Single-row type	
	No. of circuits	2 , 3
	J5200 Dual-row Module type	
	No. of circuits	4 , 6 , 10
Side locking type (Line pitch: 10.0 mm)	J5300 Dual-row Module type	
	No. of circuits	4

Receptacle contact



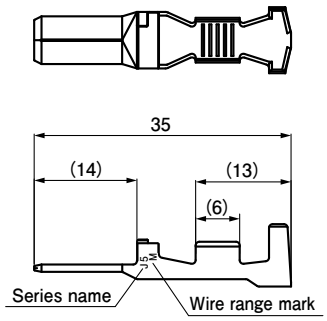
Model No.		Wire range mark	Applicable wire			Q'ty	
Strip contact	Loose piece		mm²	AWG #	Insulation O.D. (mm)	Reel	Box (Loose piece)
SJ5F-71(*)-M6.5	BJ5F-71(*)-M6.5	S	1.25 to 2.0	16 to 14	3.1 to 4.0	800	200
SJ5F-81(*)-M6.5	LJ5F-81(*)-M6.5	M	3.5 to 5.5	12 to 10	4.0 to 5.3	600	150
SJ5F-91(*)-M6.5	LJ5F-91(*)-M6.5	L	8.0	8	7.2 to 8.2	450	100

Material and Finish
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS2 compliance

Note: 1. Surface finish (*) : GF...Nickel-undercoated, 0.38 μm selective gold-plated
GI ...Nickel-undercoated, 0.76 μm selective gold-plated
2. Please note that the above general specifications may differ from the safety standards.

Tab contact



Model No.		Wire range mark	Applicable wire			Q'ty	
Strip contact	Loose piece		mm²	AWG #	Insulation O.D. (mm)	Reel	Box (Loose piece)
SJ5M-71(*)-M6.5	BJ5M-71(*)-M6.5	S	1.25 to 2.0	16 to14	3.1 to 4.0	800	200
SJ5M-81(*)-M6.5	LJ5M-81(*)-M6.5	M	3.5 to 5.5	12 to10	4.0 to 5.3	600	150
SJ5M-91(*)-M6.5	LJ5M-91(*)-M6.5	L	8.0	8	7.2 to 8.2	450	100

Material and Finish
Copper alloy (superior conductivity), nickel-undercoated, selective gold-plated

RoHS2 compliance

Note: 1.Surface finish (*) : GF···Nickel-undercoated, 0.38 μm selective gold-plated
GI ···Nickel-undercoated, 0.76 μm selective gold-plated
2. Please note that the above general specifications may differ from the safety standards.

Crimping machine, Applicator

Strip contact Model No.	Crimping machine	Applicator	Crimp applicator with dies
SJ5F-71(*)-M6.5	AP-K2N	MKS-L-J5	APLMK SJ5F/M71-65
SJ5M-71(*)-M6.5			
SJ5F-81(*)-M6.5			APLMK SJ5F/M81-65
SJ5M-81(*)-M6.5			
SJ5F-91(*)-M6.5	AP-K6A	MKS-L-J5L	APLMK SJ5F/M91-65
SJ5M-91(*)-M6.5			

Note: Surface finish (*) : GF···Nickel-undercoated, 0.38 μm selective gold-plated
GI ···Nickel-undercoated, 0.76 μm selective gold-plated

Loose piece contact	Hand tool
BJ5F-71(*)-M6.5	YRF-888
BJ5M-71(*)-M6.5	
LJ5F-81(*)-M6.5	YRF-889
LJ5M-81(*)-M6.5	
LJ5F-91(*)-M6.5	Battery operated type *BCT-860JFA
LJ5M-91(*)-M6.5	

Extraction tool for J5000 series : EJ-JFAJ5

Note: 1. Surface finish (*): GF···Nickel-undercoated, 0.38 μm selective gold-plated
GI ···Nickel-undercoated, 0.76 μm selective gold-plated
2. *Contact JST for BCT-860JFA.

Recognition mark

・Indication of plating

Each contact has a marking on its side so that the type or thickness of the plating is recognized.

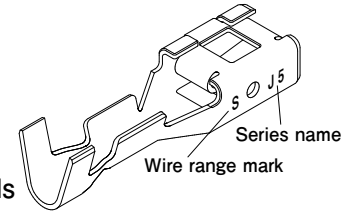
2 ··· gold-plated 0.38 μm thickness
3 ··· gold-plated 0.76 μm thickness

・Common marking on the contact and its application tools

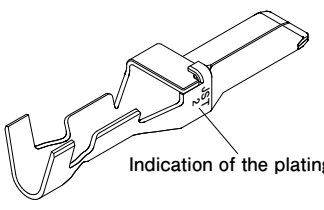
In order to avoid incorrect combination of the hand crimp tools or extraction tools and the contacts, the series name (for example J5) and wire range mark (S, M, L) are shown on both the tools and the contacts.

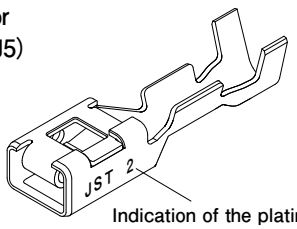
J5 S ··· AWG#16 to #14
M ··· AWG#12 to #10
L ··· AWG#8

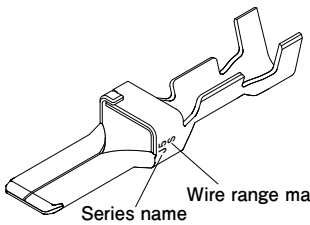
Receptacle contact



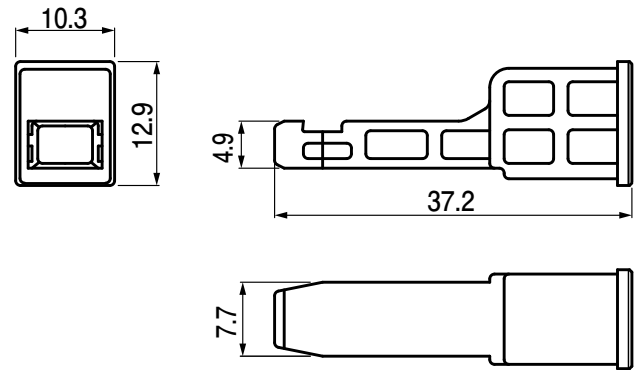
Tab contact







Keying plug



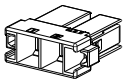
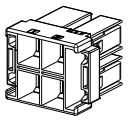
* Not available in J5300 series.

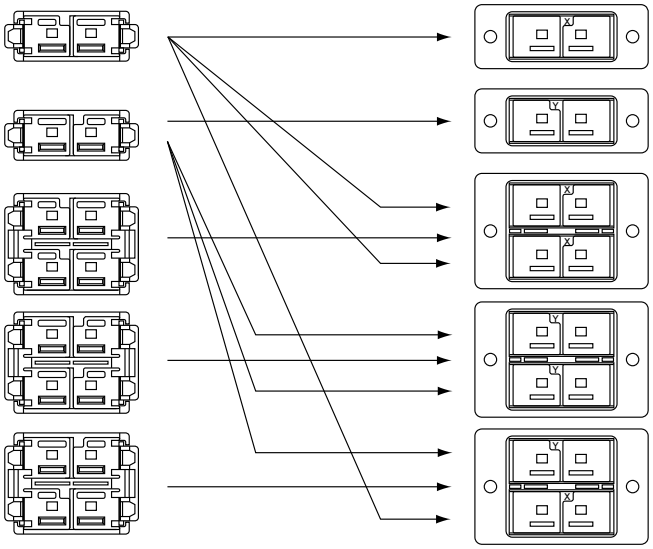
Model No.	Material
J5KP-VS	Glass-filled PBT, UL94V-0, white

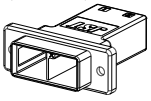
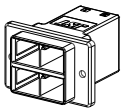
RoHS2 compliance

List of combinations

J5200 series is used in the combinations shown in the figure below.

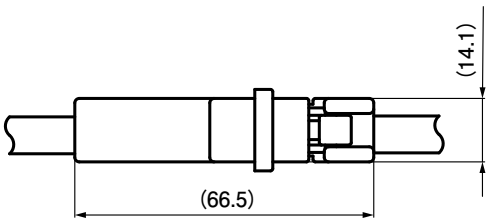
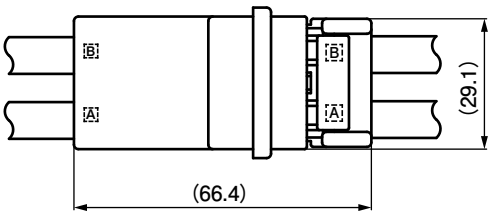
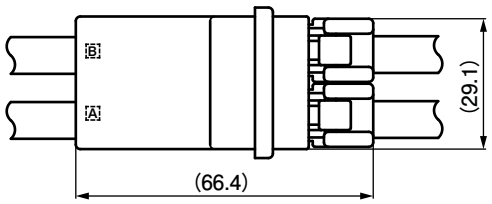
Receptacle housing	
Single-row 2, 3 circuits (J5200S) 	X-Keying J5FS-■■V-KX
	Y-Keying J5FS-■■V-KY
Dual-row 4, 6 circuits (J5200M) 	XX-Keying J5FM-■■V-KXX
	YY-Keying J5FM-■■V-KYY
	XY-Keying J5FM-■■V-KXY



Tab housing	
Single-row 2, 3 circuits (J5200S)  Panel mounting type	X-Keying J5MSP-■■V-KX
	Y-Keying J5MSP-■■V-KY
Dual-row 4, 6 circuits (J5200M)  Panel mounting type	XX-Keying J5MMP-■■V-KXX
	YY-Keying J5MMP-■■V-KYY
	XY-Keying J5MMP-■■V-KXY

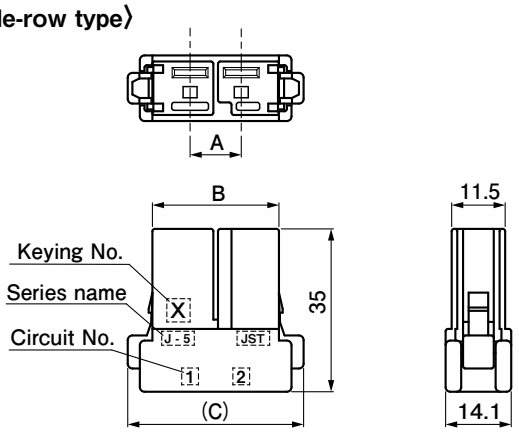
Note: Number of circuits is indicated in ■■.

Assembly layout

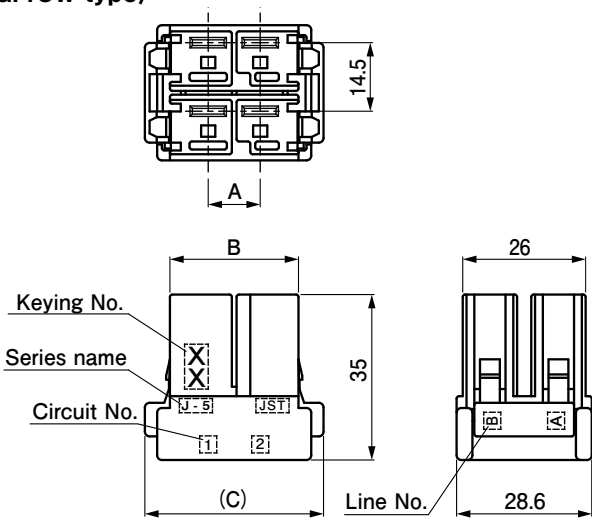
		When inserting a receptacle housing	When inserting two receptacle housings side by side as the module
Single-row type	Wire-to-wire		
Dual-row type	Wire-to-wire		

Receptacle housing

〈Single-row type〉



〈Dual-row type〉



Type	No. of circuits	Keying	Model No.	Dimencions (mm)			Q'ty/box
				A	B	C	
Single-row type	2	X	J5FS-02V-KX	11.0	27.2	37.8	50 (bag)
		Y	J5FS-02V-KY	11.0	27.2	37.8	50 (bag)
	3	X	J5FS-03V-KX	22.0	38.2	48.8	50 (bag)
		Y	J5FS-03V-KY	22.0	38.2	48.8	50 (bag)
Dual-row type	4	XX	J5FM-04V-KXX	11.0	27.2	37.8	180
		YY	J5FM-04V-KYY	11.0	27.2	37.8	180
		XY	J5FM-04V-KXY	11.0	27.2	37.8	180
	6	XX	J5FM-06V-KXX	22.0	38.2	48.8	126
		YY	J5FM-06V-KYY	22.0	38.2	48.8	126
		XY	J5FM-06V-KXY	22.0	38.2	48.8	126
	10	XX	J5FM-10V-KXX	44.0	60.2	70.8	28
		YY	J5FM-10V-KYY	44.0	60.2	70.8	28

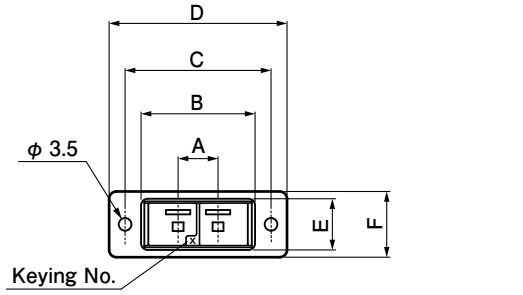
Material and Finish

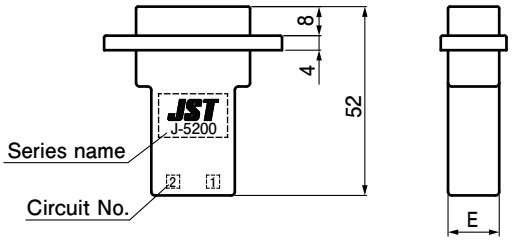
Glass-filled PBT , UL94V-0, black

RoHS2 compliance

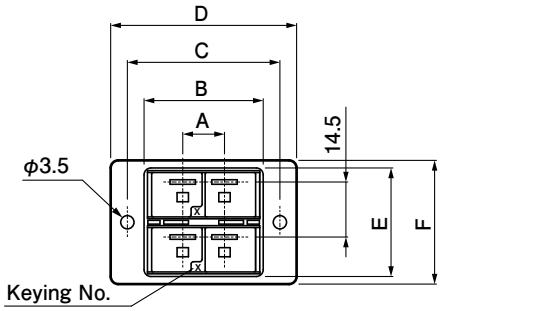
Tab housing (Panel mounting type)

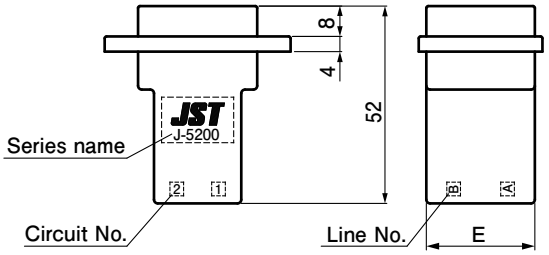
⟨Single-row type⟩



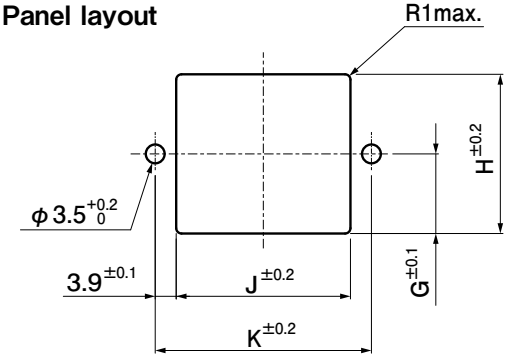


⟨Dual-row type⟩





• Panel layout



Type	No. of circuits	Keying	Model No.	Dimensions (mm)						Q'ty /box
				A	B	C	D	E	F	
Single-row type	2	X	J5MSP-02V-KX	11.0	31.4	40.2	49.0	14.1	18.1	40(bag)
		Y	J5MSP-02V-KY	11.0	31.4	40.2	49.0	14.1	18.1	40(bag)
	3	X	J5MSP-03V-KX	22.0	42.4	51.2	60.0	14.1	18.1	40(bag)
		Y	J5MSP-03V-KY	22.0	42.4	51.2	60.0	14.1	18.1	40(bag)
Dual-row type	4	XX	J5MMP-04V-KXX	11.0	31.4	40.2	49.0	28.6	32.6	72
		YY	J5MMP-04V-KYY	11.0	31.4	40.2	49.0	28.6	32.6	72
		XY	J5MMP-04V-KXY	11.0	31.4	40.2	49.0	28.6	32.6	72
	6	XX	J5MMP-06V-KXX	22.0	42.4	51.2	60.0	28.6	32.6	63
		YY	J5MMP-06V-KYY	22.0	42.4	51.2	60.0	28.6	32.6	63
		XY	J5MMP-06V-KXY	22.0	42.4	51.2	60.0	28.6	32.6	63
	10	XX	J5MMP-10V-KXX	44.0	64.4	73.2	82.0	29.6	33.6	14
		YY	J5MMP-10V-KYY	44.0	64.4	73.2	82.0	29.6	33.6	14

Material and Finish
Glass-filled PBT, UL94V-0, black

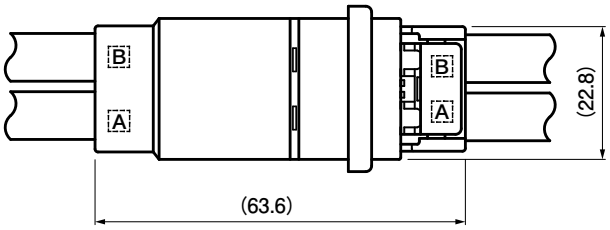
RoHS2 compliance

Note: 1. Punch holes in the panel. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

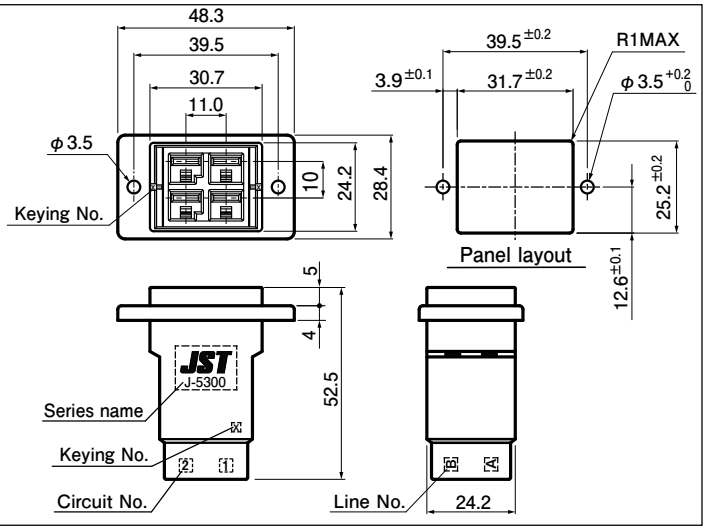
Type	No. of circuits	Dimensions (mm)			
		G	H	J	K
Single-row type	2	7.55	15.1	32.4	40.2
	3	7.55	15.1	43.4	51.2
Dual-row type	4	14.8	29.6	32.4	40.2
	6	14.8	29.6	43.4	51.2
	10	15.3	30.6	65.4	73.2

Assembly layout

Wire-to-wire



Receptacle housing (Reverse type Panel mounting type)



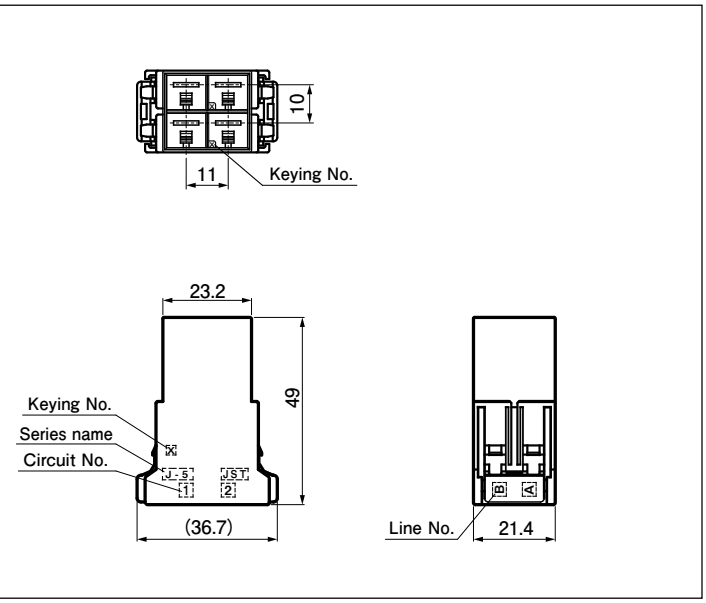
No. of circuits	Keying	Model No.	Q'ty/box
4	X	J53FDRP-04V-KX	36
	Y	J53FDRP-04V-KY	36
	Z	J53FDRP-04V-KZ	36

Material and Finish
Glass-filled PBT, UL94V-0, black

RoHS2 compliance

Note: 1. Punch holes in the panel. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

Tab housing (Reverse type)



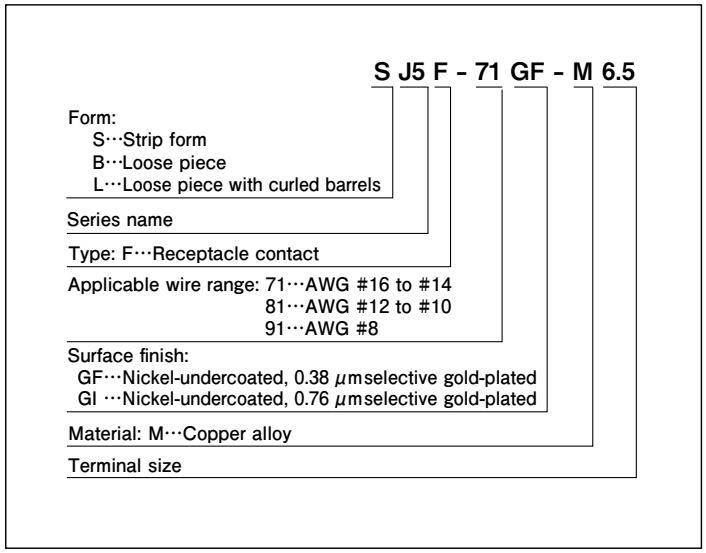
No. of circuits	Keying	Model No.	Q'ty/box
4	X	J53MDR-04V-KX	48
	Y	J53MDR-04V-KY	48
	Z	J53MDR-04V-KZ	48

Material and Finish
Glass-filled PBT, UL94V-0, black

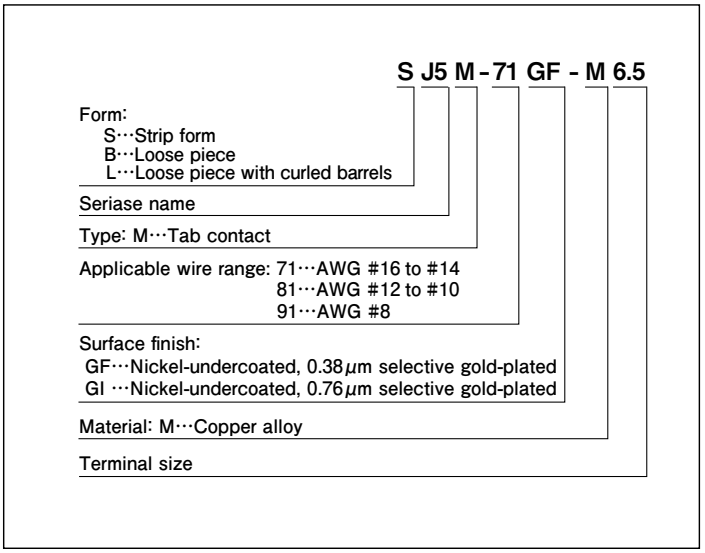
RoHS2 compliance

Model number allocation

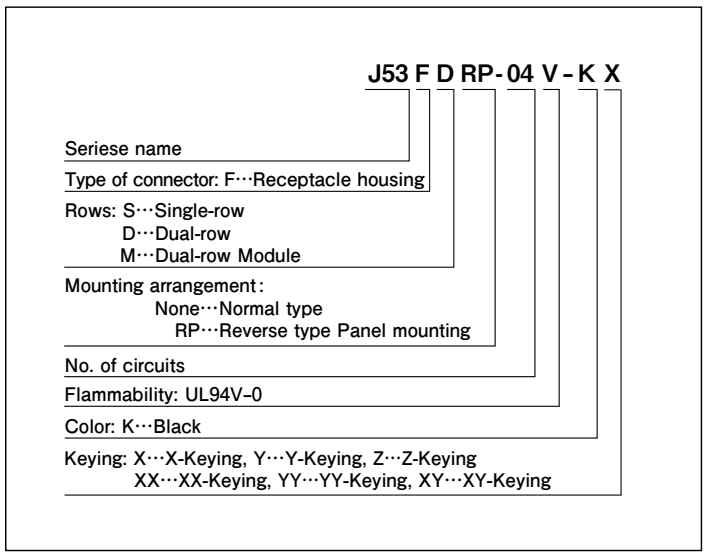
Receptacle contact



Tab contact



Receptacle housing



Tab housing

