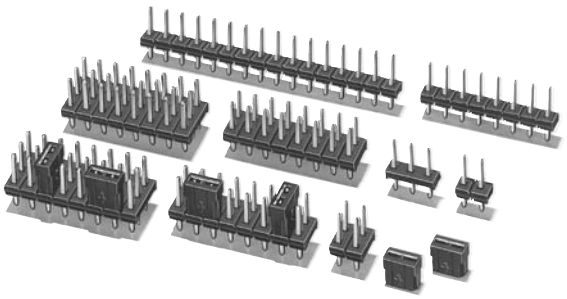
OMRON

Jumper Plugs

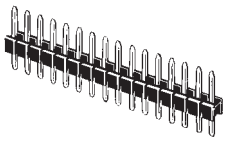
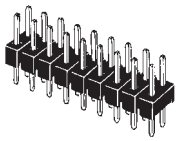
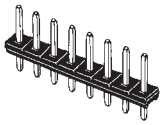
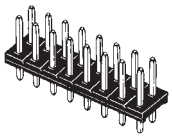
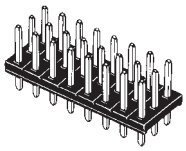
XJ8/XG8S/XG8T

Low-profile, Economical Circuit Jumper Plugs



- Low profiles that are only 5.8 mm (XJ8) and 6.8 mm (XG8S/T) high on the board.
- 2.54-mm high-density grid can be mounted horizontally or vertically.
- From Single-row up to Triple-row Connectors.
- Through-holes handle 0.8-mm wires.
- Designed for easy insertion and protection against accidental removal.
- Highly-reliable 2-point contacts.
- Thin Plug Housing (XJ8) employs flame-resistant PPS resin.

■Connectors

Model	XG8S	XG8T	XJ8B	XJ8C	XJ8D	XJ8A
Appearance	Single-row Plugs 	Double-row Plugs 	Single-row Plugs 	Double-row Plugs 	Triple-row Plugs 	Jumper Socket 
Page	2	3	4			6

■Ratings and Characteristics

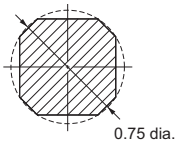
Item	Gold plating	Tin plating
Rated voltage	2 A	
Rated current	300 VAC	
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.)	
Insulation resistance	1,000 MΩ min. (at 500 VDC)	
Dielectirc strength	750 VAC for 1 min (leakage current: 1 mA max.)	
Total insertion force (See note.)	1.96 N max.	7.85 N max.
Total removal force (See note.)	0.39 N min.	0.98 N min.
Insertion durability	50 times	20 times
Ambient operating temperature	– 55 to 105°C (with no icing at low temperature)	

Note: Insertion and removal force are for the XJ8A.

■Materials and Finish

Item	XJ8A	XJ8B/C/D	XG8S/T
Housing	Fiber-glass reinforced PBT resin (UL94 V-0)/black or natural	Fiber-glass reinforced PPS resin (UL94 V-0)/black	Fiber-glass reinforced PBT resin (UL94 V-0)/black
Contacts	Phosphor bronze/nickel base, 0.15-μm gold plating	Brass/nickel base, 0.15-μm gold plating (See note.)	Brass/nickel base, 0.15-μm gold plating
	Phosphor bronze/nickel base, 2.0-μm tin plating	---	Brass/nickel base, 2.0-μm tin plating

■Cross-sectional View of Terminal



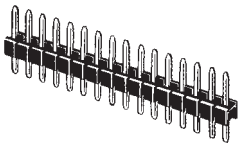
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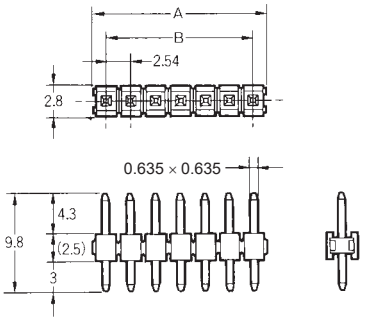
XG8S Single-row Jumper Plugs

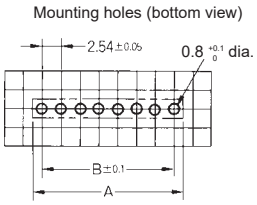
■Dimensions

(unit: mm)

XG8S-□□31 (gold plating)
XG8S-□□41 (tin plating)







Dimensions

No. of contacts	Dimensions (mm)	
	A	B
2	5.1	2.54
3	7.6	5.08
4	10.2	7.62
6	15.2	12.70
8	20.3	17.78
16	40.6	38.10
18	45.7	43.18

■Ordering Information

Model / No. of contacts	Plugs with straight terminals 	
	Model (gold plating)	Model (tin plating)
2	XG8S-0231	XG8S-0241
3	XG8S-0331	XG8S-0341
4	XG8S-0431	XG8S-0441
6	XG8S-0631	---
8	XG8S-0831	XG8S-0841
16	XG8S-1631	XG8S-1641
18	XG8S-1831	---

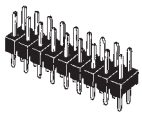
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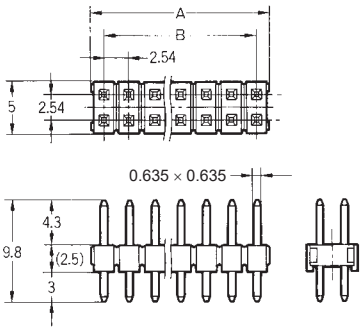
XG8T Double-row Jumper Plugs

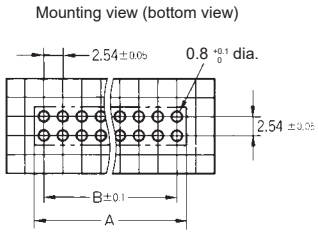
■Dimensions

(unit: mm)

XG8T-□□31 (gold plating)
XG8T-□□41 (tin plating)



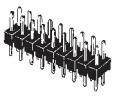




Dimensions

No. of contacts	Dimensions (mm)	
	A	B
2	2.5	---
4	5.1	2.54
6	7.6	5.08
8	10.2	7.62
10	12.7	10.16
12	15.2	12.70
14	17.8	15.24
16	20.3	17.78
18	22.9	20.32
20	25.4	22.86

■Ordering Information

Model / No. of contacts		
	Model (gold plating)	Model (tin plating)
2	XG8T-0231	XG8T-0241
4	XG8T-0431	XG8T-0441
6	XG8T-0631	XG8T-0641
8	XG8T-0831	XG8T-0841
10	XG8T-1031	XG8T-1041
12	XG8T-1231	XG8T-1241
14	XG8T-1431	XG8T-1441
16	XG8T-1631	XG8T-1641
18	XG8T-1831	XG8T-1841
20	XG8T-2031	XG8T-2041

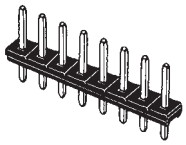
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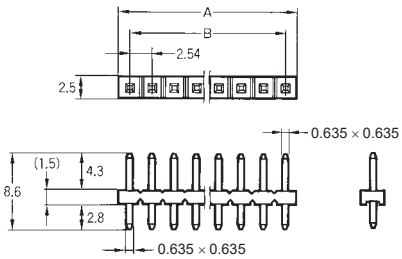
XJ8B/XJ8C/XJ8D Low-profile Single-, Double-, and Triple-row Jumper Plugs

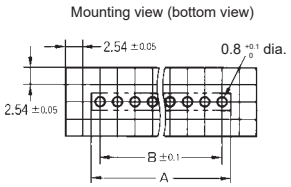
■Dimensions

(unit: mm)

Single-row Plugs
XJ8B-□□11



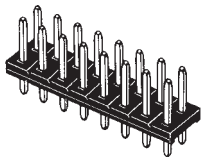


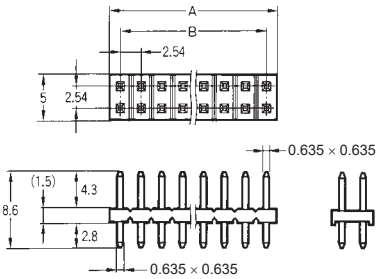


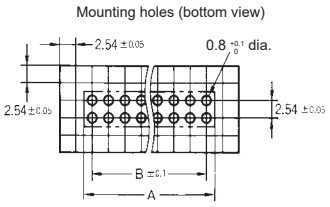
Dimensions

No. of contacts	Dimensions (mm)	
	A	B
2	5.1	2.54
3	7.6	5.08
4	10.2	7.62
5	12.7	10.16
6	15.2	12.70
7	17.8	15.24
8	20.3	17.78
9	22.9	20.32
12	30.5	27.94
14	35.6	33.02
16	40.6	38.10

Double-row Plugs
XJ8C-□□11



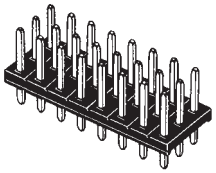


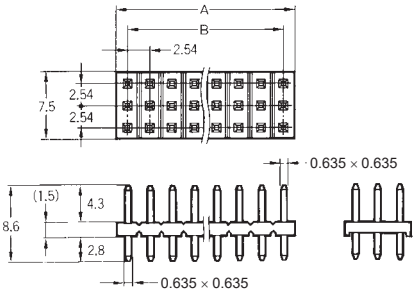


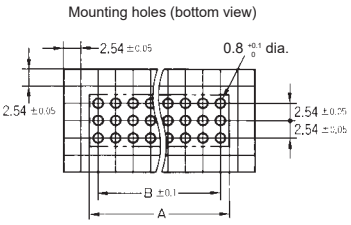
Dimensions

No. of contacts	Dimensions (mm)	
	A	B
2	2.5	---
4	5.1	2.54
6	7.6	5.08
8	10.2	7.62
10	12.7	10.16
12	15.2	12.70
14	17.8	15.24
16	20.3	17.78

Triple-row Plugs
XJ8D-□□11





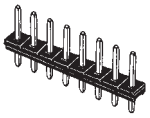
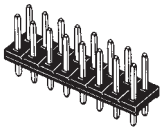
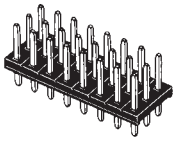


Dimensions

No. of contacts	Dimensions (mm)	
	A	B
3	2.5	---
6	5.1	2.54
9	7.6	5.08
12	10.2	7.62
15	12.7	10.16
18	15.2	12.70
21	17.8	15.24
24	20.3	17.78

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■Ordering Information

Single-row Plugs		Double-row Plugs		Triple-row Plugs	
					
No. of contacts	**Model (gold plated)**	**No. of contacts**	**Model (gold plated)**	**No. of contacts**	**Model (gold plated)**
2	XJ8B-0211	2	XJ8C-0211	3	XJ8D-0311
3	XJ8B-0311	4	XJ8C-0411	6	XJ8D-0611
4	XJ8B-0411	6	XJ8C-0611	9	XJ8D-0911
5	XJ8B-0511	8	XJ8C-0811	12	XJ8D-1211
6	XJ8B-0611	10	XJ8C-1011	15	XJ8D-1511
7	XJ8B-0711	12	XJ8C-1211	18	XJ8D-1811
8	XJ8B-0811	14	XJ8C-1411	21	XJ8D-2111
9	XJ8B-0911	16	XJ8C-1611	24	XJ8D-2411
12	XJ8B-1211				
14	XJ8B-1411				
16	XJ8B-1611				

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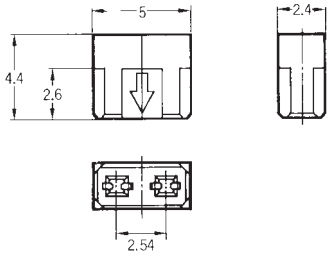
XJ8A Jumper Socket

■Dimensions

(unit: mm)

Jumper Socket
XJ8A-0211 (gold plating/black)
XJ8A-0241 (tin plating/black)
XJ8A-0214 (gold plating/natural)





■Ordering Information

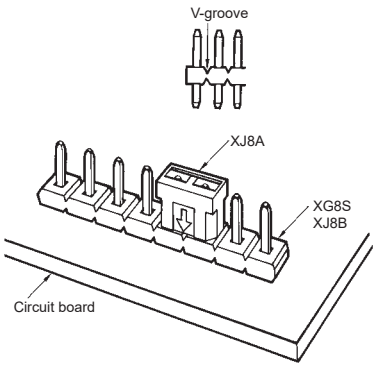
Type / No. of contacts			
	Plating	**Housing color**	**Model**
2	Gold plating	Black	XJ8A-0211
	Tin plating	Black	XJ8A-0241
	Gold plating	Natural	XJ8A-0214

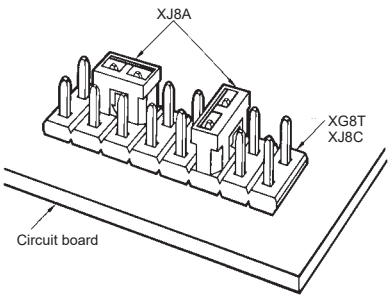
■Precautions

Correct Use

- Plugs can be easily cut along the V-groove.
- Jumper Socket should be inserted so that the arrow points down.

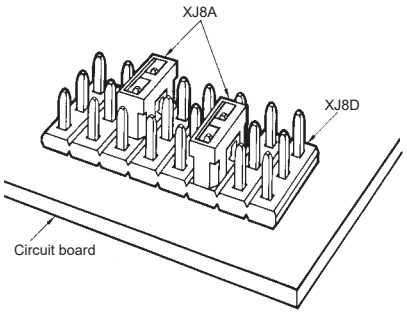
Mounting Example





Automated Soldering Conditions (Jet Flow)

1. Soldering temperature: 250 ±5°C
2. Continuous soldering time: Within 5±1 s



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■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
XG8S-□□31	UL/C-UL certified product (Recognized)	E103202	300 VAC, 1A
XG8S-□□41	UL/C-UL certified product (Recognized)	E103202	300 VAC, 1A
XG8T-□□31	UL/C-UL certified product (Recognized)	E103202	300 VAC, 1A
XG8T-□□41	UL/C-UL certified product (Recognized)	E103202	300 VAC, 1A
XJ8B-□□11	UL certified product (Recognized)	E103202	29.9 V
XJ8C-□□11	UL certified product (Recognized)	E103202	29.9 V
XJ8D-□□11	UL certified product (Recognized)	E103202	29.9 V
XJ8A-0211	UL certified product (Recognized)	E103202	29.9 V
XJ8A-0241	UL certified product (Recognized)	E103202	29.9 V
XJ8A-0214	UL certified product (Recognized)	E103202	29.9 V

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