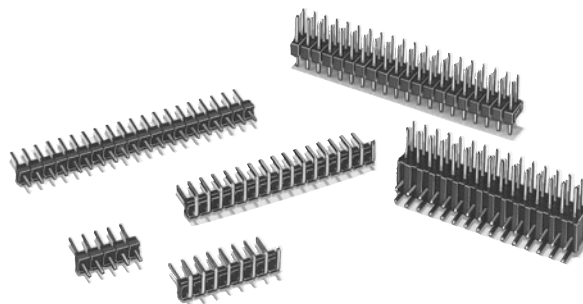# OMRON

Original Plugs | XG8

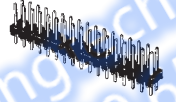## Original Plug that can be used in a wide range of applications.

■ Can use as a Plug for different Sockets.
Applicable Sockets:
XG4M Flat Cable Connector
XG5 Discrete-wire IDC Connector

■ Through-holes handle 0.8-mm wires.

■ With Double-row Plugs with right-angle terminals, block-base soldering improves productivity while lock levers simplify locking (excluding XG8V and XG8W Plugs with straight terminals).

■ Simply cut to divide (excluding XG8W Right-angle Plugs).

■ Standard models are approved by UL standards (file No. E103202) (XG4A and XG8B only)

RoHS Compliant

■ Connectors

For MIL Connectors

Model	XG8V		XG8W	
Appearance	Single-row plugs with straight terminals	Single-row plugs with right-angle terminals	Double-row plugs with straight terminals	Double-row plugs with right-angle terminals
Page	2		3	
Model	XG8A		XG8B	
Appearance	Single-row plugs with straight terminals	Single-row plugs with right-angle terminals	Double-row plugs with straight terminals	Double-row plugs with right-angle terminals
Page	4			

■ Ratings and Characteristics

| Rated current	3 A (See note 1.)
Rated voltage	300 VAC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.) (See note 2.)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	650 VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature	Operating: −55 to 105°C (with no icing)

Note: 1. The rated current will depend on the Socket you are using. It is 1 A using the XG4M for example.
2. The contact resistance is measured with the Plug mated to an XG5M-N.

■ Materials and Finish

Model		XG8V and XG8W (See note.)	XG8A and XG8B
Base		Fiber-glass reinforced PBT resin (UL94V-0)/black	
Contacts	Mating end	Brass/nickel base, 0.15-μm gold plating	Brass/nickel base, 0.15-μm gold plating
	Terminal	Brass/nickel base, 2.0-μm tin plating	Brass/nickel base, 2.0-μm tin plating

Note: Two types of contacts and mating ends, one with gold plating and the other with tin plating, are available.

■ Cross-sectional View of Terminal

0.75 dia.
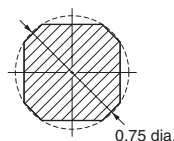
■ Applicable Sockets

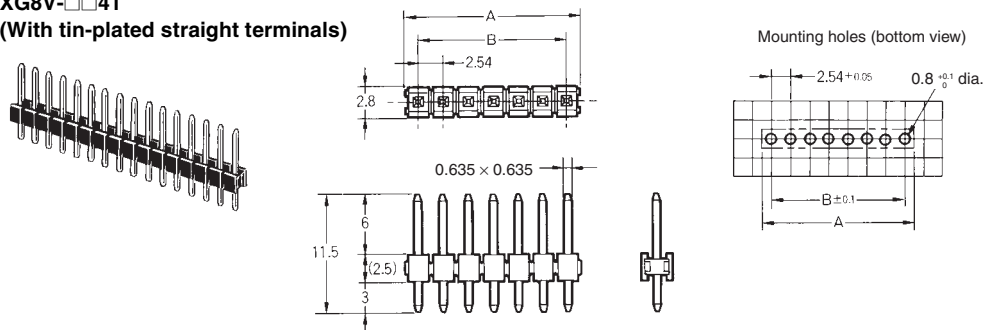| XG8W and XG8B (Double Row)	XG4M Flat Cable Connectors (Sockets)
	XG4H Board-to-Board Connectors (Sockets)
	XG5M-N Discrete-wire IDC Connectors (Double-row Sockets)
	XG5N Discrete-wire IDC Sockets

XG8V Single-row Original Plugs

■ Dimensions

(Unit: mm)

XG8V-□□31
(With gold-plated straight terminals)
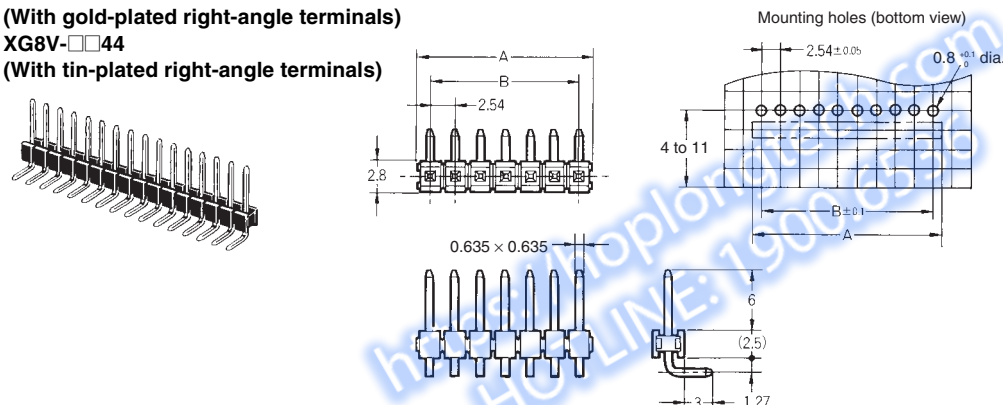**XG8V-□□41**
(With tin-plated straight terminals)

Mounting holes (bottom view)

2.54 +0.05

0.8 +0.1/0 dia.

A
B
2.54
2.8

0.635 × 0.635

6
11.5
(2.5)
3

B±0.1
A

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
10	25.4	22.86
12	30.5	27.94
13	33.0	30.48
15	38.1	35.56
16	40.6	38.10
17	43.2	40.64
20	50.8	48.26
36	91.4	88.90

XG8V-□□34
(With gold-plated right-angle terminals)
XG8V-□□44
(With tin-plated right-angle terminals)
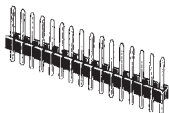
Mounting holes (bottom view)

2.54±0.05

0.8 +0.1/0 dia.

A
B
2.54
2.8

4 to 11

0.635 × 0.635

6
(2.5)
3
1.27

B±0.1
A

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
10	25.4	22.86
12	30.5	27.94
13	33.0	30.48
15	38.1	35.56
16	40.6	38.10
17	43.2	40.64
20	50.8	48.26
36	91.4	88.90

■ Ordering Information

Appearance	Plugs with straight terminals		Plugs with right-angle terminals	
No. of contacts	Model (gold plated)	Model (tin plated)	Model (gold plated)	Model (tin plated)
2	XG8V-0231	---	---	XG8V-0244
3	XG8V-0331	XG8V-0341	XG8V-0334	XG8V-0344
4	XG8V-0431	XG8V-0441	XG8V-0434	XG8V-0444
5	XG8V-0531	XG8V-0541	XG8V-0534	XG8V-0544
6	XG8V-0631	XG8V-0641	XG8V-0634	XG8V-0644
7	XG8V-0731	XG8V-0741	XG8V-0734	XG8V-0744
8	XG8V-0831	XG8V-0841	XG8V-0834	XG8V-0844
10	XG8V-1031	XG8V-1041	XG8V-1034	XG8V-1044
12	XG8V-1231	XG8V-1241	XG8V-1234	XG8V-1244
13	XG8V-1331	---	XG8V-1334	---
15	XG8V-1531	---	XG8V-1534	---
16	XG8V-1631	XG8V-1641	XG8V-1634	XG8V-1644
17	XG8V-1731	---	XG8V-1734	---
20	XG8V-2031	XG8V-2041	XG8V-2034	XG8V-2044
36	XG8V-3631	XG8V-3641	XG8V-3634	XG8V-3644