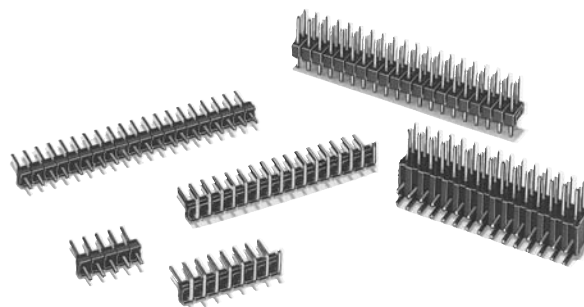


**Original Plug that can be used in a wide range of applications.**

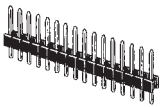
- Can use as a Plug for different Sockets.  
Applicable Sockets:  
XG4M Flat Cable Connector  
XG5 Discrete-wire IDC Connector  
(Refer to Applicable Sockets below.)
- Through-holes handle 0.8-mm wires.
- With Double-row Plugs with right-angle terminals, block-base soldering improves productivity while lock levers simplify locking (excluding XG8V and XG8W Plugs with straight terminals).
- Simply cut to divide (excluding XG8W Right-angle Plugs).
- See the "Standards certification / conformity list" for information on conformity to certification standards.



RoHS Compliant

### ■ Connectors

#### For MIL Connectors

|            |                                                                                                                                 |                                                                                                                                    |                                                                                                                                 |                                                                                                                                      |
|------------|---------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Model      | XG8V                                                                                                                            |                                                                                                                                    | XG8W                                                                                                                            |                                                                                                                                      |
| Appearance | Single-row plugs with straight terminals<br>  | Single-row plugs with right-angle terminals<br>  | Double-row plugs with straight terminals<br>  | Double-row plugs with right-angle terminals<br>  |
| Page       | 2                                                                                                                               |                                                                                                                                    | 3                                                                                                                               |                                                                                                                                      |
| Model      | XG8A                                                                                                                            |                                                                                                                                    | XG8B                                                                                                                            |                                                                                                                                      |
| Appearance | Single-row plugs with straight terminals<br> | Single-row plugs with right-angle terminals<br> | Double-row plugs with straight terminals<br> | Double-row plugs with right-angle terminals<br> |
| 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 | –55 to 105°C (with no icing at low temperature)  |

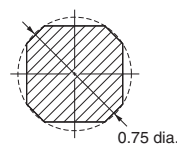
- Note:**
1. The rated current will depend on the Socket you are using. It is 1 A using the XG4M for example.
  2. The contact resistance is measured with the Plug mated to an XG5M-N.

### ■ Materials and Finish

|           |                                                   |                                         |                                         |
|-----------|---------------------------------------------------|-----------------------------------------|-----------------------------------------|
| Model     | XG8V and XG8W (See note.)                         |                                         | XG8A and XG8B                           |
| Base      | Fiber-glass reinforced PBT resin (UL94 V-0)/black |                                         |                                         |
| Con-tacts | 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



### ■ Applicable Sockets

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

# XG8V Single-row Original Plugs

## ■ Dimensions

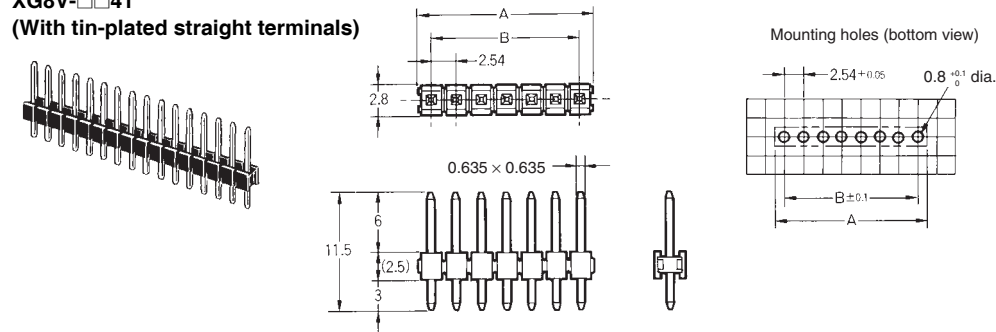
(Unit: mm)

XG8V-□□31

(With gold-plated straight terminals)

XG8V-□□41

(With tin-plated straight terminals)



### Dimensions

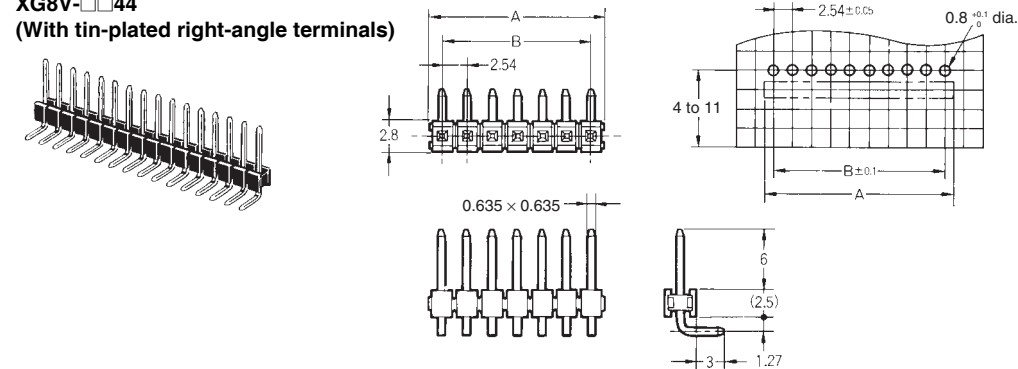
| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 2               | 5.1             | 2.54  |
| 3               | 7.6             | 5.08  |
| 4               | 10.2            | 7.62  |
| 5               | 12.7            | 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

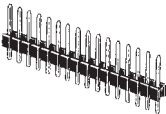
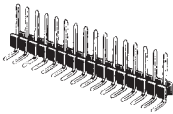
(With tin-plated right-angle terminals)



### 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

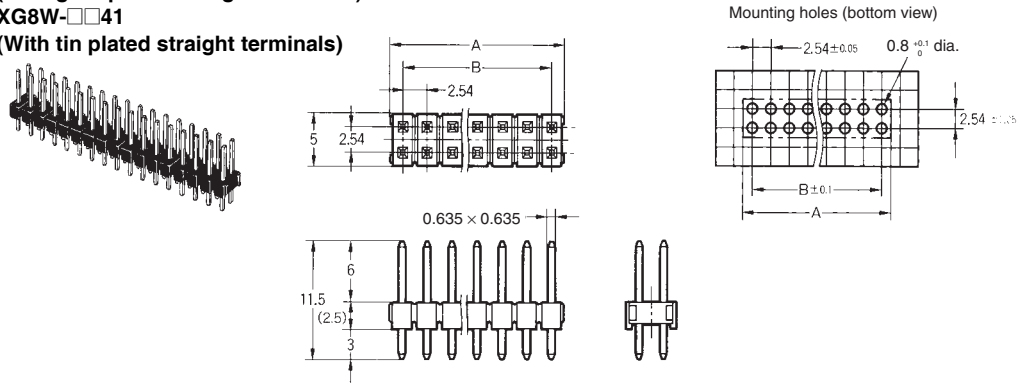
| Appearance      | Plugs with straight terminals                                                       |                    | Plugs with right-angle terminals                                                    |                    |
|-----------------|-------------------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|--------------------|
|                 |  |                    |  |                    |
| 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          |

# XG8W Original Plugs for MIL Connectors

## ■ Dimensions

(Unit: mm)

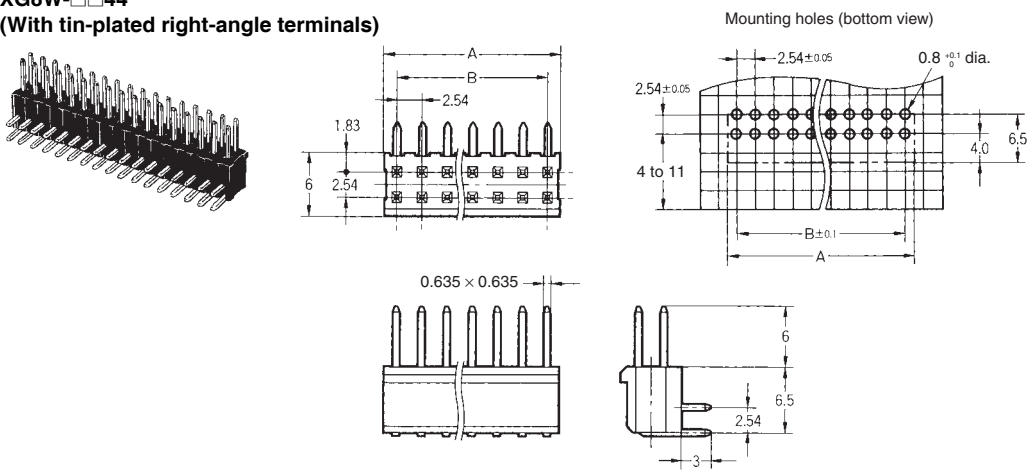
XG8W-□□31  
(With gold-plated straight terminals)  
XG8W-□□41  
(With tin plated straight terminals)



Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 10              | 12.7            | 10.16 |
| 14              | 17.8            | 15.24 |
| 16              | 20.3            | 17.78 |
| 20              | 25.4            | 22.86 |
| 26              | 33.0            | 30.48 |
| 30              | 38.1            | 35.56 |
| 34              | 43.2            | 40.64 |
| 40              | 50.8            | 48.26 |
| 50              | 63.5            | 60.96 |
| 60              | 76.2            | 73.66 |

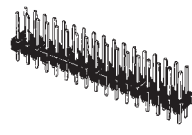
XG8W-□□34  
(With gold-plated right-angle terminals)  
XG8W-□□44  
(With tin-plated right-angle terminals)



Dimensions

| No. of contacts | Dimensions (mm) |       |
|-----------------|-----------------|-------|
|                 | A               | B     |
| 20              | 25.4            | 22.86 |
| 26              | 33.0            | 30.48 |
| 30              | 38.1            | 35.56 |
| 34              | 43.2            | 40.64 |
| 40              | 50.8            | 48.26 |
| 50              | 63.5            | 60.96 |

## ■ Ordering Information

| Appearance                                                                          | Plugs with straight terminals |                     | Plugs with right-angle terminals |                    |
|-------------------------------------------------------------------------------------|-------------------------------|---------------------|----------------------------------|--------------------|
|                                                                                     | No. of contacts               | Model (gold plated) | Model (gold plated)              | Model (tin plated) |
|  | 10                            | XG8W-1031           | XG8W-1041                        | ---                |
|                                                                                     | 14                            | XG8W-1431           | XG8W-1441                        | ---                |
|                                                                                     | 16                            | XG8W-1631           | XG8W-1641                        | ---                |
|                                                                                     | 20                            | XG8W-2031           | XG8W-2041                        | XG8W-2034          |
|                                                                                     | 26                            | XG8W-2631           | XG8W-2641                        | XG8W-2634          |
|                                                                                     | 30                            | XG8W-3031           | XG8W-3041                        | XG8W-3034          |
|                                                                                     | 34                            | XG8W-3431           | XG8W-3441                        | XG8W-3434          |
|                                                                                     | 40                            | XG8W-4031           | XG8W-4041                        | XG8W-4034          |
|                                                                                     | 50                            | XG8W-5031           | XG8W-5041                        | XG8W-5034          |
|                                                                                     | 60                            | XG8W-6031           | XG8W-6041                        | ---                |

# XG8A (Single-row)/XG8B (Double-row)

## Original Plugs for MIL Connectors

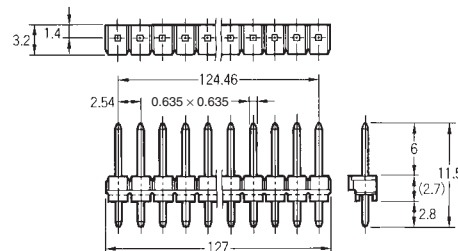
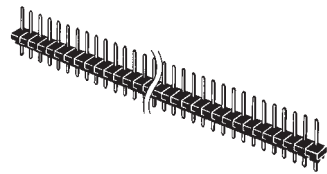
### ■ Dimensions

(Unit: mm)

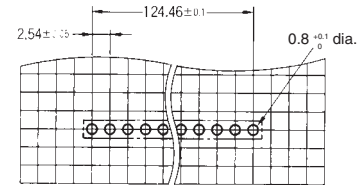
#### Single-row Plugs

XG8A-5031

(With straight terminals)

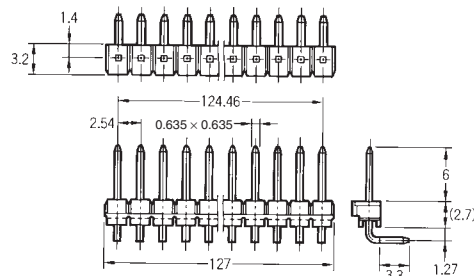
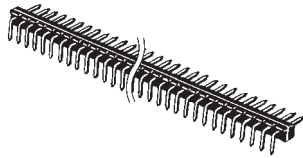


Mounting holes (bottom view)

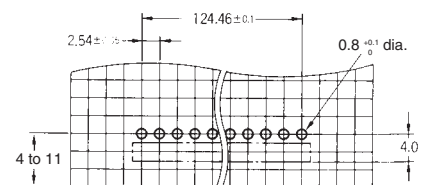


XG8A-5034

(With right-angle terminals)



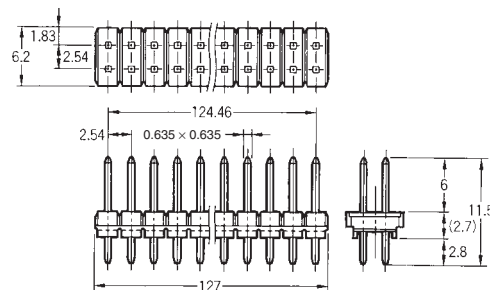
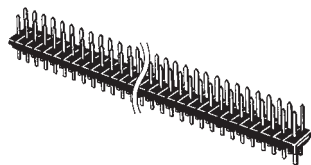
Mounting holes (bottom view)



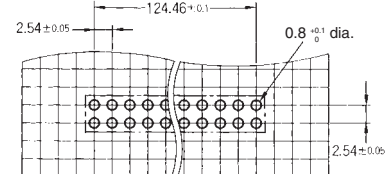
#### Double-row Plugs

XG8B-0131

(With straight terminals)

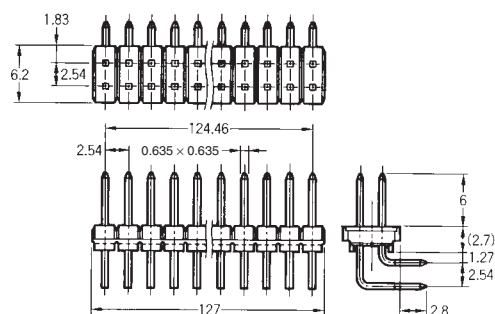
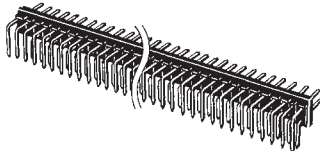


Mounting holes (bottom view)

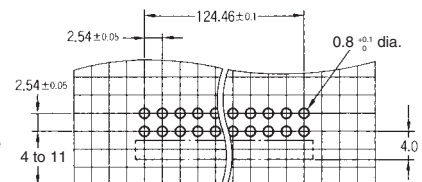


XG8B-0134

(With right-angle terminals)



Mounting holes (bottom view)



### ■ Ordering Information

| Terminal type    | Plugs with straight terminals | Plugs with right-angle terminals |
|------------------|-------------------------------|----------------------------------|
| No. of contacts  | Model (gold plated)           | Model (gold plated)              |
| 50 (Single-row)  | XG8A-5031                     | XG8A-5034                        |
| 100 (Double-row) | XG8A-0131                     | XG8A-0134                        |

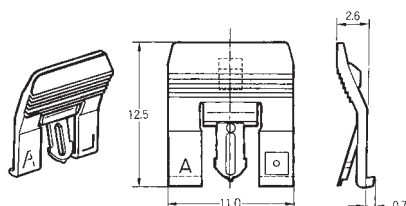
## ■ Accessories (Sold Separately)

### Lock Levers

#### XG5Z-0002

Can be used to lock XG8W Double-row Right-angle Terminal Plugs to XG4M Flat Cables and XG5M-N Discrete-wire IDC Connectors.

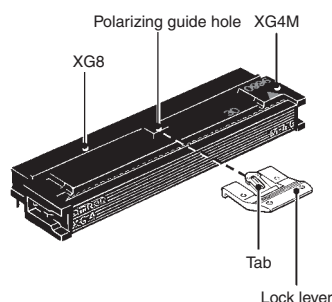
They cannot be used with XG8W Double-row Straight Terminal Plugs or XG8V Single-row Plugs.



| Model     |
|-----------|
| XG5Z-0002 |

### Mounting the Lock Lever

Insert the tab on the Lock Lever into the hole on a Socket with a polarity guide. In this way, it can be locked with XG8W Right-angle Terminal Plugs.

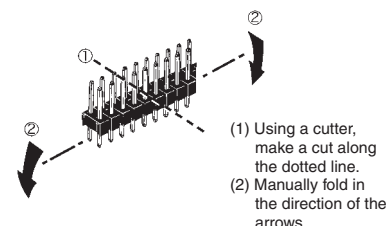


## ■ Precautions

### Correct Use

#### Dividing the XG8W (with Straight Terminals), XG8V, XG8A, and XG8B

- Using a Cutter, make a cut on the slot as indicated by the dotted line in the diagram. Then fold the Plug manually in the direction of the arrows.



#### Automated Soldering Conditions (Jet Flow)

- Soldering temperature:  $250 \pm 5^{\circ}\text{C}$
- Continuous soldering time: Within  $5 \pm 1$  s

## ■ Ordering Procedure

- Contact your OMRON representative if you require a product with a non-standard number of contacts.

Please check each region's Terms & Conditions by region website.

## OMRON Corporation

Electronic and Mechanical Components Company

### Regional Contact

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