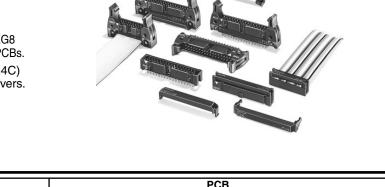
71

Flat Cable Connectors

Industry Standard Circuit Board Connectors Conform to MIL Standards

- XG4M-U: Unique locking system, with lock levers on strain relief / socket instead of on plug, saves 24% of space
- Space-saving Box-type Plugs (XG4C) available.
- Can be used with XG5 IDC Connectors for discrete wires, XG8 Original PCB Plugs, and the XG2 IDC Bus Connectors for PCBs.
- The Original Plugs (XG8) and the Box-type Plugs (XG4C) can be locked using External XG5Z and XG4Z Lock Levers.
- Conforms to MIL standards (MIL-C-83503).
- UL recognition (file No. E103202)

Ordering Information



		Cable			РСВ			
	So	cket	Plug		Plug		Socket	
Connector	XG	i4M	XG4E	XG4A	XG4A	XG4C	XG4H	
Strain relief	XG4U	XG4T	XG4S					
Feature	Strain relief with lock levers	Strain relief without lock levers	Lock levers on connector	Integral lock levers	2-tier with lock levers	Box type plug	Board to Board Socket	
Appearance								

Note: 1. XG4M can be provided with or without the strain reliefs;

- \Rightarrow XG4M-U consists of XG4M- \square 3 \square socket +XG4U- \square 04 strain relief
- \Rightarrow XG4M-T consists of XG4M- \square 3 \square socket + XG4T- \square 04 strain relief
- 2. XG4H PCB mount socket mates with XG4C and XG8W (see XG8 Datasheet) for board to board connectivity without cables.
- 3. XG5 connectors (see XG5 Datasheet) use discrete wire instead of flat ribbon cable.
- 4. XG4A PCB mount sockets are available with Long, Short or no Lock Levers.
- 5. Optional XG4Z-001 side-lock levers, purchased separately, are available for use with right-angle XG4A versions that don't include them.
- 6. Optional XG4Z-0002 and XG5Z-0002 top-lock levers are available for mating XG4M(-T) sockets to XG4C and XG8 plugs.

Ratings and Characteristics

Item	MIL Sockets: XG4M Cable Plug: XG4E	MIL Plugs: XG4A Box-type PCB Plugs: XG4C Board to Board Sockets: XG4H			
Rated current	1 A	3 A (See note 1.)			
Rated voltage	250 VAC	300 VAC			
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.)				
Insulation resistance	1,000 MΩ min. (at 500 VDC)				
Dielectric strength	500 VAC for 1 min (leakage curre	ent: 1 mA max.)			
Connector insertion	1.96 N max. per contact				
Contact removal	0.39 N min. (with test gauge, t= 0.64 mm)				
Insertion durability	50 times (See note 2.)				
Ambient 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. For standard 0.15-µm gold plating.

Materials and Finish

Item		MIL Plugs: XG4A Box-type Plugs: XG4C	Cable Plugs: XG4E (Strain Relief: XG4S)	MIL Sockets: XG4M (Strain Relief: XG4T)	Board-to-board Connector: XG4H	
Housings		Fiber-glass reinforced PBT re	esin (UL94V-0)/black			
Covers -		_	Polyamide resin (UL94V-0)/ Fiber-glass reinforced PBT black resin (UL94V-0)/black		—	
gold		Brass/nickel base, 0.15-μm gold plating (See note.)	Phosphor bronze/nickel base, 0.15-µm gold plating (See note.)			
		Brass/nickel base, tin plating	Phosphor bronze/nickel base, tin plating			
Strain Reliefs		—	Polyamide resin (UL94V-0)/ black	Fiber-glass reinforced PBT resin (UL94V-0)/black	—	

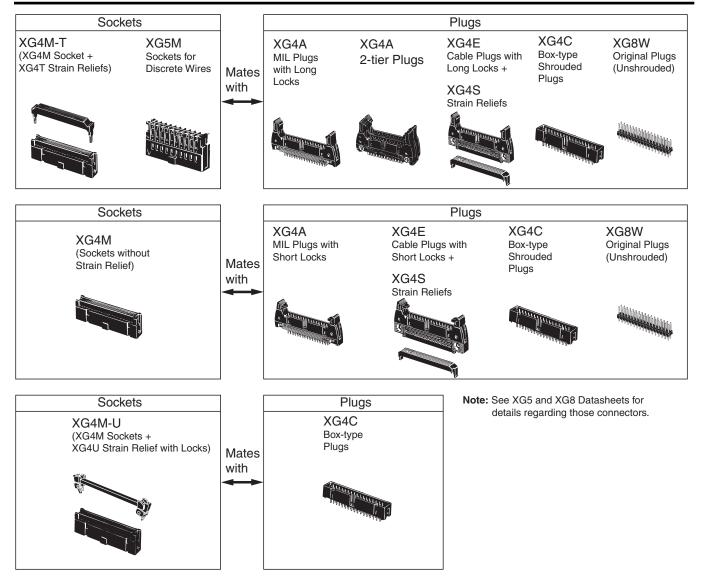
Note: For non-standard plating, contact your OMRON representative.

■ Applicable Wires

- 1.27-mm pitch, 7-strand flat cable
- UL2651(standard cable)

- UL20012 (folding cable)
- UL20028 (color-coded cable)

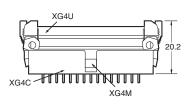
Mating Combinations for XG4, XG5 and XG8



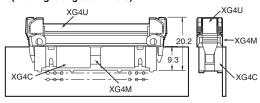
Mating Diagrams for XG4M

XG4U + XG4M + XG4C

(With straight terminals)



XG4U + XG4M + XG4C (With right-angle terminals)



XG4T + XG4M + XG4A

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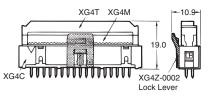
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XG4A

XG4T XG4M

XG4T + XG4M, + XG4C + XG4Z Lock Lever



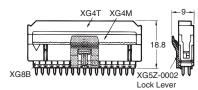
XG4T + XG4M + XG8 (Unshrouded Plug) + XG5Z Lock Lever

23.5 27

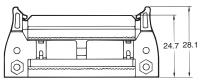
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XG4T + XG4M + XG4E



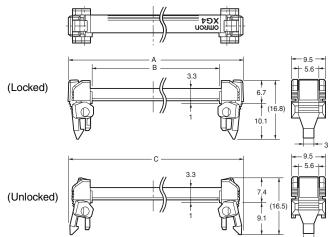
Cable Mount Connectors

■ XG4M-U Sockets (Uses XG4U Strain Relief with Lock Levers)

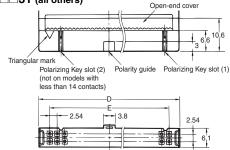
Dimensions

XG4U-004

Strain Reliefs with Locks

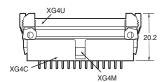


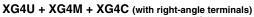
XG4M-30 (one polarity guide) XG4M-31 (all others)

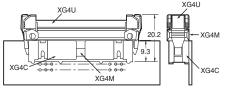


Mating Diagrams for XG4M-U

XG4U + XG4M + XG4C (with straight terminals)







No. of		Dimensions (mm)						
contacts	Α	В	С	D	E			
10	26.8	13.2	26.2	17.3	10.16			
14	31.8	18.2	31.2	22.3	15.24			
16	34.4	20.8	33.8	24.9	17.78			
20	39.5	25.9	38.9	30.0	22.86			
26	47.1	33.5	46.5	37.6	30.48			
30	52.2	38.6	51.6	42.7	35.56			
34	57.2	43.6	56.6	47.7	40.64			
40	64.9	51.3	64.3	55.4	48.26			
50	77.6	64.0	77.0	68.1	60.96			
60	90.3	76.7	89.7	80.8	73.66			
64	95.3	81.7	94.7	85.8	78.74			

Ordering Information

No. of contacts	No. of polarity guides	Socket+Strain Relief Sets (See notes 1 and 2.)	Socket with Open-end Cover (See note 3.)	Strain Relief with Locks	
10	0	XG4M-1031-U	XG4M-1031	XG4U-1004	
	1	XG4M-1030-U	XG4M-1030		
14	1	XG4M-1430-U	XG4M-1430	XG4U-1404	
16	1	XG4M-1630-U	XG4M-1630	XG4U-1604	
20	1	XG4M-2030-U	XG4M-2030	XG4U-2004	
26	1	XG4M-2630-U	XG4M-2630	XG4U-2604	
30	1	XG4M-3030-U	XG4M-3030	XG4U-3004	
34	1	XG4M-3430-U	XG4M-3430	XG4U-3404	
40	1	XG4M-4030-U	XG4M-4030	XG4U-4004	
50	1	XG4M-5030-U	XG4M-5030	XG4U-5004	
	2 (See note 4.)	XG4M-5031-U	XG4M-5031	1	
60	1	XG4M-6030-U	XG4M-6030	XG4U-6004	
	2 (See note 4.)	XG4M-6031-U	XG4M-6031	1	
64	1	XG4M-6430-U	XG4M-6430	XG4U-6404	
	2 (See note 4.) XG4M-6431-U XG4M-6431		XG4M-6431		

Note: 1. Sets include the connector and strain relief.

2. With open-end cover.

3. Strain Relief sold separately.

4. Polarity guide pitch is 22.86 mm.

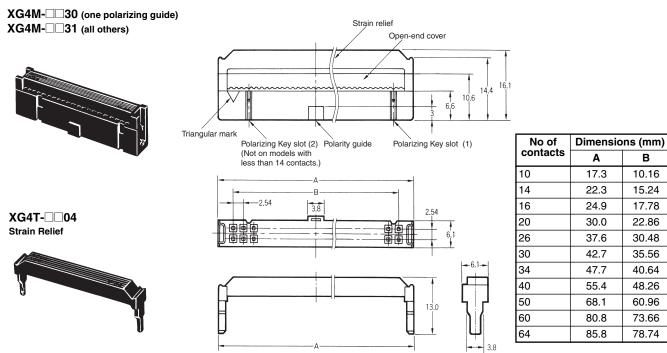
44

В

10.16

■ XG4M-T Sockets (Uses XG4T Strain Relief without Lock Levers)

Dimensions



Ordering Information

No. of contacts	No. of polarity guides	Socket+Strain Relief Set (See notes 1 and 2.)	Socket with Open-end Cover (See note 3.)	Strain Relief for the XG4M
10	0	XG4M-1031-T	XG4M-1031	XG4T-1004
	1	XG4M-1030-T	XG4M-1030]
14	1	XG4M-1430-T	XG4M-1430	XG4T-1404
16	1	XG4M-1630-T	XG4M-1630	XG4T-1604
20	1	XG4M-2030-T	XG4M-2030	XG4T-2004
26	1	XG4M-2630-T	XG4M-2630	XG4T-2604
30	1	XG4M-3030-T	XG4M-3030	XG4T-3004
34	1	XG4M-3430-T	XG4M-3430	XG4T-3404
40	1	XG4M-4030-T	XG4M-4030	XG4T-4004
50	1	XG4M-5030-T	XG4M-5030	XG4T-5004
	2 (See note 4.)	XG4M-5031-T	XG4M-5031	1
60	1	XG4M-6030-T	XG4M-6030	XG4T-6004
	2 (See note 4.)	XG4M-6031-T	XG4M-6031	1
64	1	XG4M-6430-T	XG4M-6430	XG4T-6404
	2 (See note 4.)	XG4M-6431-T	XG4M-6431	1

Note: 1. Sets include the connector and strain relief.

- 2. With open-end cover.
- 3. Strain Relief sold separately.
- 4. Polarity guide pitch is 22.86 mm

■ XG4E Plugs and XG4S Strain Relief (Locking Levers on Connector)

XG4E-031/-071 (With long locks) (Long locks) (Short locks) XG4E-032/-072 (With short locks) 2.54 0.635 × 0.635 2.54 0.635 × 0.635 Open-end cover (28.1) (24.4) ∂. † 41 5.0 (2.4)-Strain Belief (5.4) Two, 2.6 dia. (M3 tapping screw hole) Two. 2.65 dia. Θ Æ 4.1 riangu Polarity slot Polarizing Key slot mark XG4S-004 Polarizing Key slot (Not on models with Strain Relief less than 14 contacts.) Dimensions

No. of Dimensions (mm))		
contacts	Α	В	С	D	E		F	G
						Long Lock	Short Lock	
10	32.0	17.5	10.16	21.8	27.9	46.4	40.4	16.9
14	37.1	22.6	15.24	26.9	33.0	51.5	45.5	22.0
16	39.6	25.2	17.78	29.5	35.6	54.1	46.0	24.6
20	44.7	30.2	22.86	34.5	40.6	59.1	53.1	29.6
26	52.3	37.9	30.48	42.2	48.3	66.8	60.7	38.0
30	57.4	42.9	35.56	47.2	53.3	71.8	65.8	42.3
34	62.5	48.0	40.64	52.3	58.4	76.9	70.9	47.4
40	70.1	55.6	48.26	59.9	66.0	84.5	78.5	55.0
50	82.8	68.3	60.96	72.6	78.7	97.2	91.2	67.7
60	95.5	81.0	73.66	85.3	91.4	109.9	103.9	80.4
64	100.6	86.1	78.74	90.4	96.5	115.0	109.0	85.5

Note: See the "Polarity Slot and Polarizing Key Slot Number and Position" section for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

46

Dimensions

Ordering Information

Use Long-lock Plugs to mate with XG4M-T Strain-relief Sockets, and use Short-lock Plugs to mate with XG4M that does not have a strain relief installed.

No. of contacts	No. of polarizing slots	Long-lock Plugs with Open-end Covers (See note 1.)	Short-lock Plugs with Open-end Covers (See note 1.)	Strain Reliefs for XG4E
10	0	XG4E-1071	XG4E-1072	XG4S-1004
	1	XG4E-1031	XG4E-1032	
14	1	XG4E-1431	XG4E-1432	XG4S-1404
16	1	XG4E-1631	XG4E-1632	XG4S-1604
20	1	XG4E-2031	XG4E-2032	XG4S-2004
26	1	XG4E-2631	XG4E-2632	XG4S-2604
30	1	XG4E-3031	XG4E-3032	XG4S-3004
34	1	XG4E-3431	XG4E-3432	XG4S-3404
40	1	XG4E-4031	XG4E-4032	XG4S-4004
50	1	XG4E-5031	XG4E-5032	XG4S-5004
	2 (See note 2.)	XG4E-5071	XG4E-5072	
60	1	XG4E-6031	XG4E-6032	XG4S-6004
	2 (See note 2.)	XG4E-6071	XG4E-6072	1
64	1	XG4E-6431	XG4E-6432	XG4S-6404
	2 (See note 2.)	XG4E-6471	XG4E-6472	7

Note: 1. Strain Relief sold separately.

2. Polarity slot pitch is 22.86 mm.

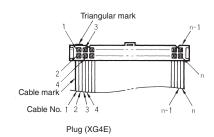
Cable Numbers and Contact Position

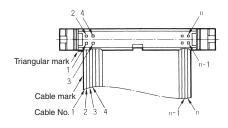
Cable and Corresponding Contact Number

The contact numbers are not marked on the Connector. Use the triangular mark as a guide when wiring and designing circuit boards.

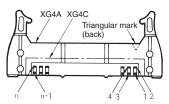
For the cable number, count starting from the cable mark side as shown on the right.





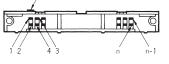


Right-angle Terminal Plug (terminal side)



Straight Terminal Plug (terminal side)





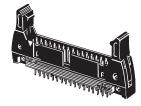
PCB Mount Connectors

■ XG4A Plugs with Long Lock levers

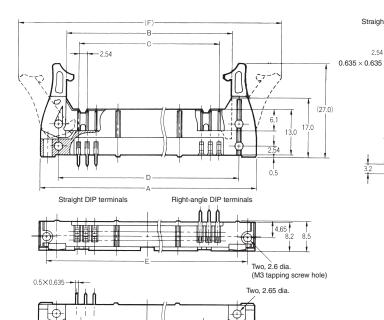
Dimensions

XG4A-031/-071 (With straight DIP terminals) XG4A-034/-074 (With right-angle DIP terminals)

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Triangula

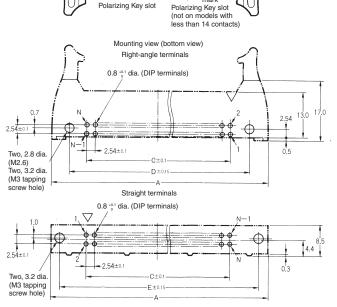
mark

Straight DIP terminals

2.54

Right-angle DIP terminals





4.1

Polarity slot

Polarizing Key slot

No. of	Dimensions (mm)							
contacts	Α	В	С	D	E	F		
10	32.0	17.5	10.16	21.8	27.9	46.4		
14	37.1	22.6	15.24	26.9	33.0	51.5		
16	39.6	25.2	17.78	29.5	35.6	54.1		
20	44.7	30.2	22.86	34.5	40.6	59.1		
26	52.3	37.9	30.48	42.2	48.3	66.8		
30	57.4	42.9	35.56	47.2	53.3	71.8		
34	62.5	48.0	40.64	52.3	58.4	76.9		
40	70.1	55.6	48.26	59.9	66.0	84.5		
50	82.8	68.3	60.96	72.6	78.7	97.2		
60	95.5	81.0	73.66	85.3	91.4	109.9		
64	100.6	86.1	78.74	90.4	96.5	115.0		

Note: See the "Polarity Slot and Polarizing Key Slot Number and Position" section for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

48

Ordering Information

Use in Combination with XG4M-T cable mount Sockets with strain relief or XG5M Sockets for discrete wire.

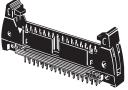
No. of contacts	No. of polarizing slots	Plugs with straight DIP terminals	Plugs with right-angle DIP terminals
10	0	XG4A-1071	XG4A-1074
	1	XG4A-1031	XG4A-1034
14	1	XG4A-1431	XG4A-1434
16	1	XG4A-1631	XG4A-1634
20	1	XG4A-2031	XG4A-2034
26	1	XG4A-2631	XG4A-2634
30	1	XG4A-3031	XG4A-3034
34	1	XG4A-3431	XG4A-3434
40	1	XG4A-4031	XG4A-4034
50	1	XG4A-5031	XG4A-5034
	2 (See note.)	XG4A-5071	XG4A-5074
60	1	XG4A-6031	XG4A-6034
	2 (See note.)	XG4A-6071	XG4A-6074
64	1	XG4A-6431	XG4A-6434
	2 (See note.)	XG4A-6471	XG4A-6474

Note: Polarizing slot pitch is 22.86 mm.

■XG4A Plugs with Short Locks

Dimensions

XG4A-032/-072 (With straight DIP terminals) XG4A-035/-075 (With right-angle DIP terminals)





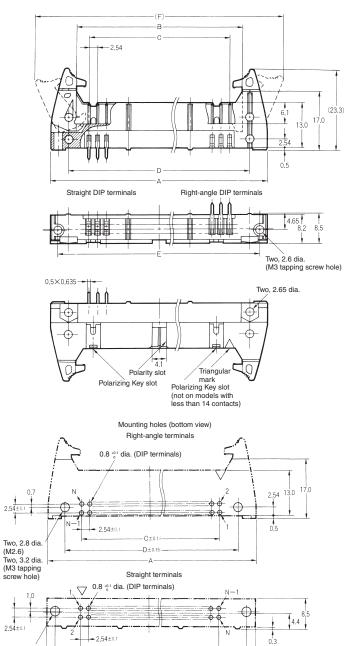
Straight DIP terminals

2.54

0.635 × 0.635

Right-angle DIP terminals

2.54-0.635 imes 0.635



No. of	Dimensions (mm)								
contacts	Α	В	С	D	E	F			
10	32.0	17.5	10.16	21.8	27.9	40.4			
14	37.1	22.6	15.24	26.9	33.0	45.5			
16	39.6	25.2	17.78	29.5	35.6	48.0			
20	44.7	30.2	22.86	34.5	40.6	53.1			
26	52.3	37.9	30.48	42.2	48.3	60.7			
30	57.4	42.9	35.56	47.2	53.3	65.8			
34	62.5	48.0	40.64	52.3	58.4	70.9			
40	70.1	55.6	48.26	59.9	66.0	78.5			
50	82.8	68.3	60.96	72.6	78.7	91.2			
60	95.5	81.0	73.66	85.3	91.4	103.9			
64	100.6	86.1	78.74	90.4	96.5	109.0			

Note: See the "Polarity Slot and Polarizing Key Slot Number and Position" section for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

-E±0.15

2.54±0.1

2.54±0.1

Two, 3.2 dia. (M3 tapping screw hole)

Ordering Information

No. of contacts	No. of polarizing slots	Plugs with straight DIP terminals	Plugs with right-angle DIP terminals
10	0	XG4A-1072	XG4A-1075
	1	XG4A-1032	XG4A-1035
14	1	XG4A-1432	XG4A-1435
16	1	XG4A-1632	XG4A-1635
20	1	XG4A-2032	XG4A-2035
26	1	XG4A-2632	XG4A-2635
30	1	XG4A-3032	XG4A-3035
34	1	XG4A-3432	XG4A-3435
40	1	XG4A-4032	XG4A-4035
50	1	XG4A-5032	XG4A-5035
	2 (See note.)	XG4A-5072	XG4A-5075
60	1	XG4A-6032	XG4A-6035
	2 (See note.)	XG4A-6072	XG4A-6075
64	1	XG4A-6432	XG4A-6435
	2 (See note.)	XG4A-6472	XG4A-6475

Use in Combination with XG4M cable mount Sockets without strain relief.

Note: Polarizing slot pitch is 22.86 mm.

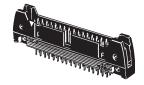
■ XG4A Plugs without Lock Levers

Note: XG4Z-001 Lock Levers that can be installed after PCB assembly may be purchased separately. (See the following page.)

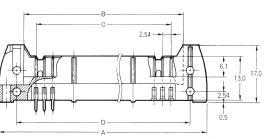
Dimensions

XG4A--33/--73 (With straight DIP terminals) XG4A--36/-76 (With right-angle DIP terminals)

Straight DIP terminals

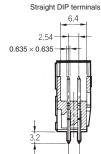


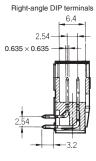


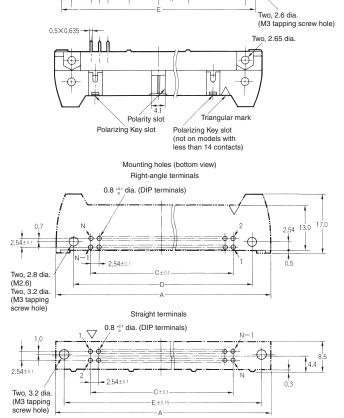


Right-angle DIP terminals

4.65







No. of		Dim	ensions (mm)			
contacts	Α	В	С	D	E		
10	32.0	17.5	10.16	21.8	27.9		
14	37.1	22.6	15.24	26.9	33.0		
16	39.6	25.2	17.78	29.5	35.6		
20	44.7	30.2	22.86	34.5	40.6		
26	52.3	37.9	30.48	42.2	48.3		
30	57.4	42.9	35.56	47.2	53.3		
34	62.5	48.0	40.64	52.3	58.4		
40	70.1	55.6	48.26	59.9	66.0		
50	82.8	68.3	60.96	72.6	78.7		
60	95.5	81.0	73.66	85.3	91.4		
64	100.6	86.1	78.74	90.4	96.5		

Note: See the "Polarity Slot and Polarizing Key Slot Number and Position" section for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

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Ordering Information

No. of contacts	No. of polarizing slots	Plugs with straight DIP terminals	Plugs right-angle DIP terminals
10	0	XG4A-1073	XG4A-1076
	1	XG4A-1033	XG4A-1036
14	1	XG4A-1433	XG4A-1436
16	1	XG4A-1633	XG4A-1636
20	1	XG4A-2033	XG4A-2036
26	1	XG4A-2633	XG4A-2636
30	1	XG4A-3033	XG4A-3036
34	1	XG4A-3433	XG4A-3436
40	1	XG4A-4033	XG4A-4036
50	1	XG4A-5033	XG4A-5036
	2 (See note.)	XG4A-5073	XG4A-5076
60	1	XG4A-6033	XG4A-6036
	2 (See note.)	XG4A-6073	XG4A-6076
64	1	XG4A-6433	XG4A-6436
	2 (See note.)	XG4A-6473	XG4A-6476

Note: Polarity slot pitch is 22.86 mm.

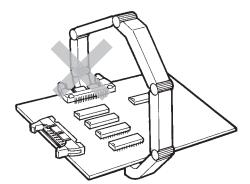
■ Lock Levers for XG4A-□□3□/7□

Attachment after Soldering

- Long Levers interfere with automated mounting.
- Long Levers are in the way when boards are packed.

\downarrow

• These problems are resolved using Connectors with Long Levers that can be attached after soldering is completed.



- These versions of the XG4A connector allows you to attach Lock Levers on Right-angle Terminal Plugs after automated soldering is completed.
- Lock Levers can be easily mounted simply by manually pushing them in.
- Lock Levers can be used with either Straight or Right Angle versions of the XG4A.

Ordering Information



XG4Z-0010 Long Lock Lever

XG4Z	-0011
Short	Lock Lever

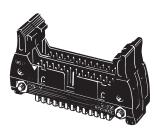
Туре	Model	Min. order
Long Lock Levers	XG4Z-0010	20
Short Lock Levers	XG4Z-0011	
Slim Long Lock Levers	XG4Z-0012	
Slim Short Lock Levers	XG4Z-0013	

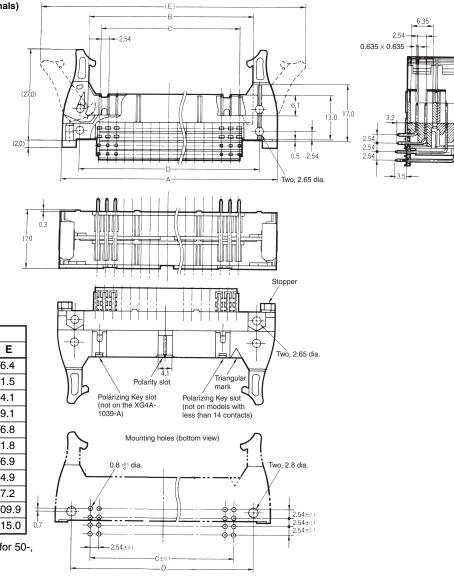
- **Note: 1.** The left and right Lock Levers are identical. One pair is needed for each Plug.
 - Use Long Lock Levers when mating XG4A plug to XG4M-T cable mount socket with strain relief or XG5M sockets for discrete wires.
 - **3.** Use Short Lock Levers when mating XG4A plug to XG4M without strain relief attached.

■ XG4A 2-tier Plugs with Long Lock Lever

Dimensions

XG4A- 39-A/- 79-A (With long locks and right-angle DIP terminals)





No. of		Dime	nsions	(mm)	
contacts	Α	В	С	D	E
10×2	32.0	17.5	10.16	21.8	46.4
14×2	37.1	22.6	15.24	26.9	51.5
16×2	39.6	25.2	17.78	29.5	54.1
20×2	44.7	30.2	22.86	34.5	59.1
26×2	52.3	37.9	30.48	42.2	66.8
30×2	57.4	42.9	35.56	47.2	71.8
34×2	62.5	48.0	40.64	52.3	76.9
40×2	70.1	55.6	48.26	59.9	84.9
50×2	82.8	68.3	60.96	72.6	97.2
60×2	95.5	81.0	73.66	85.3	109.9
64×2	100.6	86.1	78.74	90.4	115.0

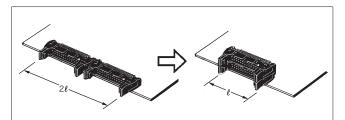
Note: Polarizing slot pitch is 22.86 mm for 50-, 60-, and 64-contact Connectors.

Ordering Information

No. of contacts	No. of polarizing slots	Model	No. of contacts	No. of polarity slots	Model
10 × 2	0	XG4A-1079-A	40 × 2	1	XG4A-4039-A
	1	XG4A-1039-A			
14×2	1	XG4A-1439-A	50×2	1	XG4A-5039-A
16×2	1	XG4A-1639-A		2 (See note 2.)	XG4A-5079-A
20 × 2	1	XG4A-2039-A	60×2	1	XG4A-6039-A
26 × 2	1	XG4A-2639-A		2 (See note 2.)	XG4A-6079-A
30 × 2	1	XG4A-3039-A	64×2	1	XG4A-6439-A
34 × 2	1	XG4A-3439-A		2 (See note 2.)	XG4A-6479-A

Note: 1. Comes in a set with stopper and screws included.2. Polarizing slot pitch is 22.86 mm.

Mounting Example



Applicable Mating Sockets

Mating Socket No. of contacts No. of polarity slots 2-tier Plug XG4M for XG5M-N for Model No. flat cable discrete wire (See note 1.) (See note 2.) 10×2 XG4A-1079-A 0 XG4M-1031 XG5M-103 -N XG4A-1039-A XG5M-103 --- N 1 XG4M-1030 14×2 XG5M-143 - N 1 XG4A-1439-A XG4M-1430 XG5M-163 -N 16×2 1 XG4A-1639-A XG4M-1630 20×2 1 XG4A-2039-A XG4M-2030 XG5M-203 -N 26×2 1 XG4A-2639-A XG4M-2630 XG5M-263 -N 30×2 XG4A-3039-A XG4M-3030 XG5M-303 -N 1 34×2 1 XG4A-3439-A XG4M-3430 XG5M-343 - N XG5M-403 --- N 40 × 2 1 XG4A-4039-A XG4M-4030 XG4A-5039-A XG4M-5030 XG5M-503 -N 50×2 1 2 (See note 3.) XG4A-5079-A XG4M-5031 60×2 XG4A-6039-A XG4M-6030 XG5M-603 -N 1 2 (See note 3.) XG4A-6079-A XG4M-6031 64 × 2 XG4A-6439-A XG4M-6430 XG5M-643 - N XG4A-6479-A XG4M-6431 2 (See note 3.)

2-tier Plug Features

- Recommended for high-density mounting.
- MIL-compliant cable ensures faster delivery times and lower cost than half-pitch board cable. The 2.54-mm pitch simplifies patterning.

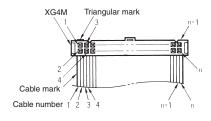
Cable Number and Contact Position

Cable and Corresponding Contact Number

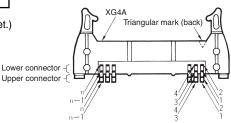
The contact numbers are not marked on the Connector. Use the triangular mark as a guide when wiring and designing circuit boards.

For the cable number, count starting from the cable mark side as shown below.

Socket (mating side)



Right-angle terminals



Note: 1. Use with the XG4T strain relief. (XG4M-T includes the connector and strain relief as a set.)
2. Use with the XG5S Semi-cover. XG5S Hood Cover cannot be used. (See XG5 Datasheet).

3. Polarity slot pitch is 22.86 mm.

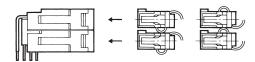
Correct Use of XG4A 2-tier Plug

Mounting

- Be sure to anchor the board with screws before mounting.
- Note that a Polarizing Key cannot be mounted on the lower Plug.

Connecting the Socket

- Before connecting the XG4M with Strain Relief, remove as much slack from the cable as possible. Insert as shown below.
- Attach an XG5S Semi-cover before connecting the XG5M-N. It is not possible to use an XG5S Hood Cover. (See XG5 Datasheet)



Soldering

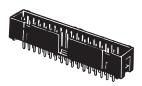
- Automated Soldering Conditions (Jet Flow)
- 1. Soldering temperature: 250 ±5°C
- 2. Continuous soldering time: Within 5 s

■ XG4C Box-type (Shrouded) Plugs

Note: See XG8 Datasheet for unshrouded PCB plugs / headers that mate with the XG4M-T cable mount sockets.

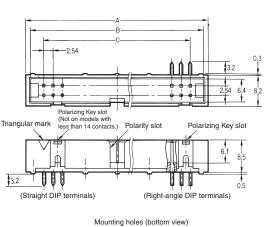
Dimensions

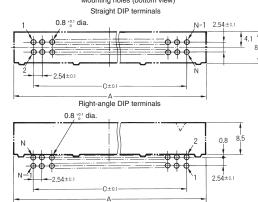
XG4C-031/-071 (With straight DIP terminals)

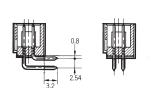












Right-angle DIP terminals Straight DIP terminals

No. of	Dim	nensions (r	nm)
contacts	Α	В	С
10	20.0	17.5	10.16
14	25.1	22.6	15.24
16	27.6	25.2	17.78
20	32.7	30.2	22.86
26	40.3	37.9	30.48
30	45.4	42.9	35.56
34	50.5	48.0	40.64
40	58.1	55.6	48.26
50	70.8	68.3	60.96
60	83.5	81.0	73.66
64	88.6	86.1	78.74

Note: See the "Polarity Slot and Polarizing Key Slot Number and Position" section for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

Ordering Information

No. of contacts	No. of polarizing slots	Plugs with straight DIP terminals	Plugs with right-angle DIP terminals
10	0	XG4C-1071	XG4C-1074
	1	XG4C-1031	XG4C-1034
14	1	XG4C-1431	XG4C-1434
16	1	XG4C-1631	XG4C-1634
20	1	XG4C-2031	XG4C-2034
26	1	XG4C-2631	XG4C-2634
30	1	XG4C-3031	XG4C-3034
34	1	XG4C-3431	XG4C-3434
40	1	XG4C-4031	XG4C-4034
50	1	XG4C-5031	XG4C-5034
	2 (See note 1.)	XG4C-5071	XG4C-5074
60	1	XG4C-6031	XG4C-6034
	2 (See note 1.)	XG4C-6071	XG4C-6074
64	1	XG4C-6431	XG4C-6434
	2 (See note 1.)	XG4C-6471	XG4C-6474

Note: 1. Polarizing slot pitch is 22.86 mm.

2. The Box-type Plug can be locked to XG4M and XG5 using the "XG4Z-0002" Lock Lever II (sold separately).

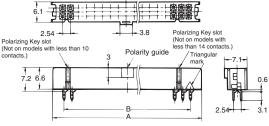
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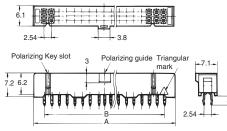
■ XG4H Board-to-Board Sockets

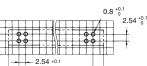
Dimensions

XG4H-231/-271 (With straight DIP terminals)

XG4H-3431-1 XG4H-4031-1 (With straight DIP terminals) *Sockets with model numbers ending in -1 are available only with 34 or 40 contacts (provide kinked terminals and standoff to prevent the Sockets from falling over).







Mounting holes (bottom view)

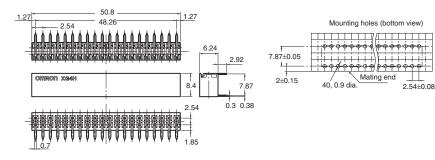
Dimensions

— B 0.1

No. of contacts	A	В
10	17.3	10.16
14	22.3	15.24
16	24.9	17.78
20	30.0	22.86
26	37.6	30.48
30	42.7	35.56
34	47.7	40.64
40	55.4	48.26
50	68.1	60.96
60	80.8	73.66
64	85.8	78.74

XG4H-4034

(With right-angle DIP terminals)



Ordering Information

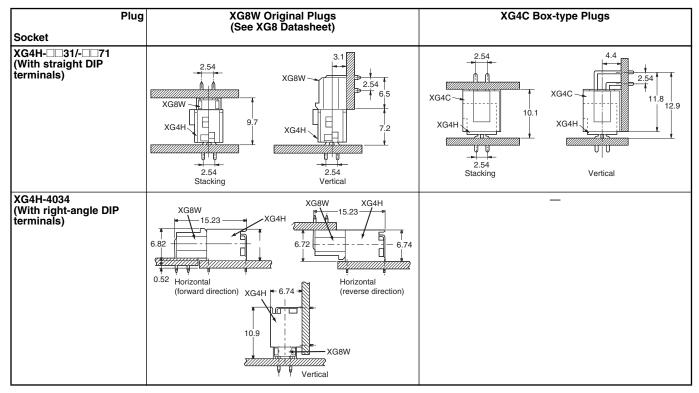
No. of contacts	No. of polarizing slots	Sockets with straight DIP terminals
10	1	XG4H-1031
14	1	XG4H-1431
16	1	XG4H-1631
20	1	XG4H-2031
26	1	XG4H-2631
30	1	XG4H-3031
34	1	XG4H-3431-1
40	1	XG4H-4031-1
50	1	XG4H-5031
	2 (See note.)	XG4H-5071
60	1	XG4H-6031
	2 (See note.)	XG4H-6071
64	1	XG4H-6431
	2 (See note.)	XG4H-6471

 No. of contacts
 Sockets with right-angle DIP terminals

 40
 XG4H-4034

Note: Polarizing guide pitch is 22.86 mm.

■ Mating Diagrams for XG4H



Polarity Slot and Polarizing Key Slot Number and Position

Classification			No. o	f contacts	
	10 coi		14 contacts	16 to 40 contacts	50 to 64 contacts
XG4M Cable Socket	XG4M-1031	XG4M-1030	XG4M-1430	XG4	4M-1630 to XG4M-6430
					Polarizing Key slot XG4M-5031, XG4M-6031, XG4M-6431
XG4A	XG4A-107□	XG4A-103	XG4A-143	XC	A-163 to XG4A-643
PCB Plug XG4E Cable Plug	XG4E-107	XG4E-103	XG4E-143		
				XG2	IE-163 to XG4E-643 XG4A-507 , XG4A-607 Polarizing slot Image: Comparison of the second se
XG4C Box-type PCB Plug	XG4C-107□	XG4C-103□ ŢŢŢŢŢ	XG4C-143□	XG4	C-163 to XG4C-643 Polarizing slot YALL A YALL A YALL A YALL A Polarizing slot Polarizing slot YALL A Polarizing slot
No. of polarizing guides (Polarizing Slots)	0	1	1	1	1 2 (H = 22.86 mm)
No. of Polarizing Key slot (Polarizing Key Slots)	1	0	1	2	2

Tools and Accessories (Sold Separately)

See "XG - Assembly Tooling and Accessories" datasheet from additional information about cable termination tooling.

External Polarization Options

The following optional accessories can be used to provide polarization to sockets and plugs that do not have molded polarizing guides and slots built into their housings and shrouds.

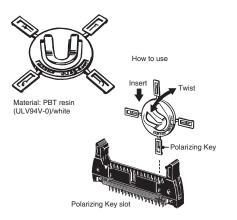
Solutions for Shrouded Connectors

XG4Z-0004 Polarizing Key

Typically, 10 contact versions of the XG4A, XG4E and XG4C are available with or without polarizing guides.

Install the XG4Z-0004 polarizing key on XG4A, XG4E and XG4C plugs that do not have a polarizing slot, to prevent reverse connection with XG4M cable sockets that do not have a polarizing guide.

For all other versions, the molded polarity guides and slots can be used by themselves to help prevent reverse insertion. However, use the polarizing key with these versions as well for best results.

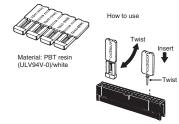


Note: Each XG4Z-0004 has 4 Polarizing Keys.

Solutions for Unshrouded Connectors

Use the XG4Z-0005 coding pin to fill a specific hole in one of the XG4 or XG5 sockets. Then, use the XY2E-0002 cutting pin to remove the corresponding terminal from an XG8 unshrouded plug. (See XG5 and XG8 datasheets for details about those connectors.)

XG4Z-0005 Coding Pin



Note: 1. A contact with a Coding Pin inserted cannot be used.2. Each XG4Z-0005 has 4 Polarizing Keys.

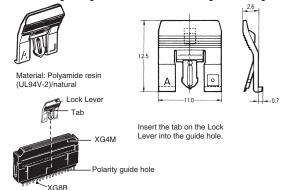
XY2E-0002 Contact Cutting Driver

The Contact Cutting Driver is used to cut (twist off) a contact on the mating Plug when using an XG4Z-0005 Coding Pin.

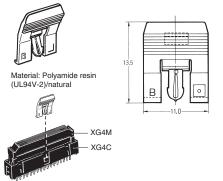


Top Lock Levers

Use to lock right angle XG8B and XG8W Plugs to mating sockets



XG4Z-0002 - "Lock Lever II" Use to lock XG4C Box-type Plugs to mating sockets.



Precautions - PCB Mount Sockets and Plugs

Correct Use

Automated Soldering Conditions (Jet Flow)

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

Note: The coding pin and cutting tools can also be used to prevent incorrect wiring by removing different terminals from side-by-side connectors. For example, for connector set 1, remove terminal 1 and fill socket hole 1. Then, for connector set 2, remove terminal 2 and fill socket hole 2. This prevents socket 1 from mating with plug 2, ensuring correct wiring.

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