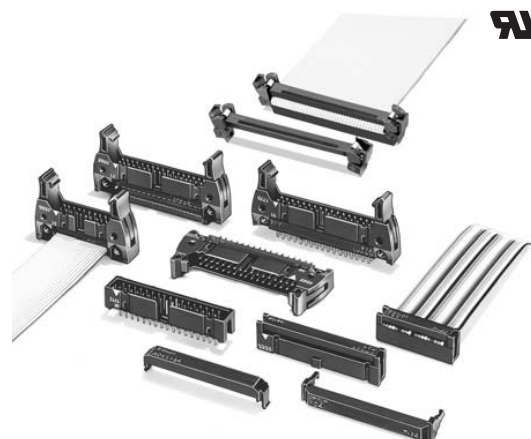


Flat Cable Connectors

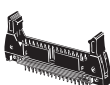
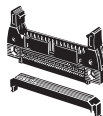
XG4

Industry Standard Circuit Board Connectors Conform to MIL Standards with Improved Design

- Space-saving Box-type Plugs (XG4C) available.
- IDC Plugs (XG4E) can be used for relaying.
- An endless number of combinations can be made using the XG-5 IDC Connectors for discrete wires, XG8 Original Plugs, and the XG2 IDC Connectors for PCBs.
- The Original Plugs (XG8) and the Box-type Plugs (XG4C) can be locked using Lock Levers.
- Conforms to MIL standards (MIL-C-83503).
- UL recognition (file No. E103202)



Ordering Information

Model	XG4M XG4M-U	XG4M XG4T	XG4A	XG4A	XG4E XG4S	XG4C	XG4H
Appearance	MIL sockets with strain relief (with lock) 	MIL sockets with strain relief 	MIL plugs 	Plugs with dual ports 	IDC plugs with strain relief 	Box-type plugs 	Board-to-board connector sockets 
Page	2	4	5 to 10	9 to 10	11 to 12	13 to 14	15 to 16

Ratings and Characteristics

Item	MIL Sockets: XG4M Relay Plug: XG4E	MIL Plugs: XG4A Box-type Plugs: XG4C PCB-to-PCB Connectors: 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 current: 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	Relay Plugs: XG4E (Strain Relief: XG4S)	MIL Sockets: XG4M (Strain Relief: XG4T)	Board-to-board Connector: XG4H
Housings		Fiber-glass reinforced PBT resin (UL94V-0)/black			
Covers		—	Polyamide resin (UL94V-0)/ black	Fiber-glass reinforced PBT resin (UL94V-0)/black	—
Contacts	Mating end	Brass/nickel base, 0.15- μ m gold plating (See note.)	Phosphor bronze/nickel base, 0.15- μ m gold plating (See note.)		
	Terminal Press fit	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

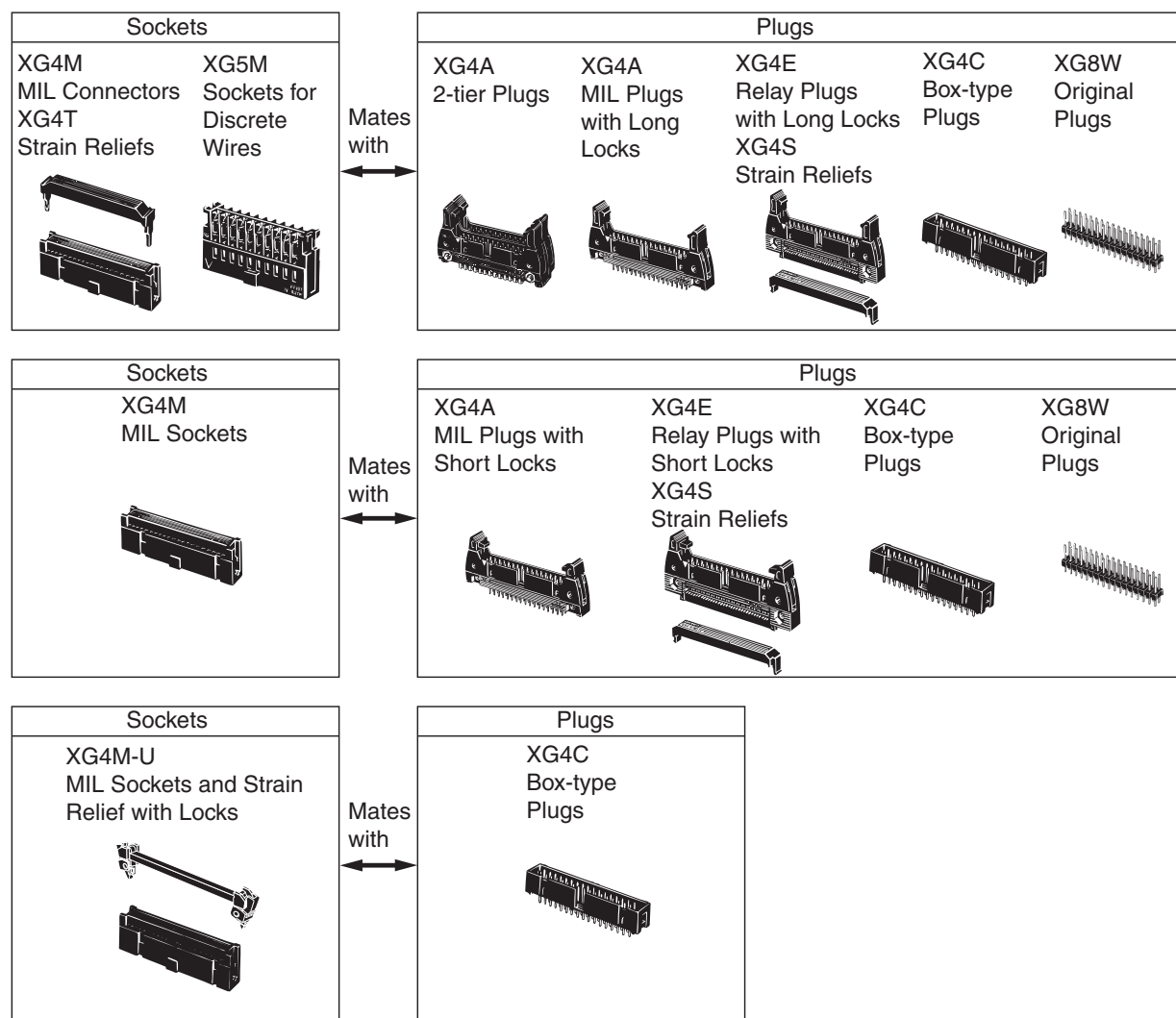
1.27-mm pitch, 7-strand flat cable

• UL2651(standard cable)

• UL20012 (folding cable)

• UL20028 (color-coded cable)

Mating Combinations for XG4 and XG5

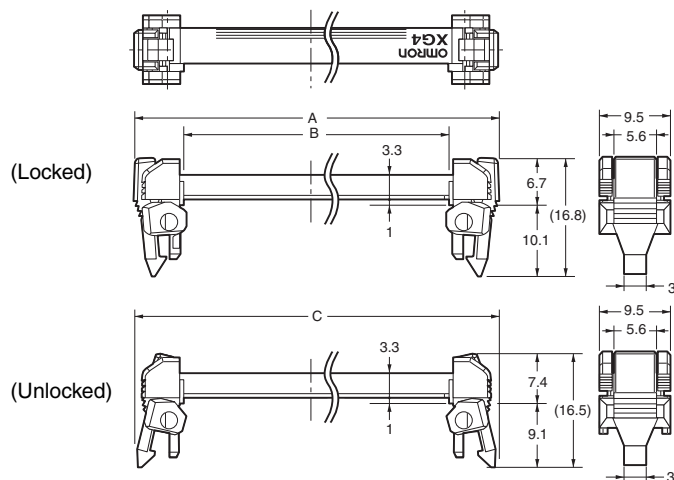


XG4M-U MIL Connectors with Socket Locks

■ Dimensions

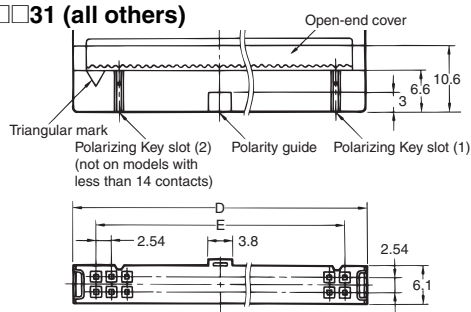
XG4U

Strain Reliefs with Locks



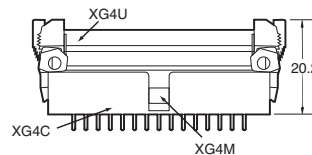
XG4M-□□30 (one polarity guide)

XG4M-□□31 (all others)

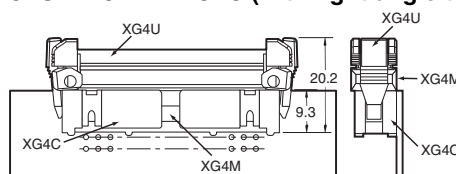


■ Mating Diagrams for XG4M

XG4U + XG4M + XG4C (with straight terminals)



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



Dimensions

No. of contacts	Dimensions (mm)				
	A	B	C	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 and Strain Relief Sets (See note 1.)	Socket with Open-end Cover (See note 2.)	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 3.)	XG4M-5031-U	XG4M-5031	
60	1	XG4M-6030-U	XG4M-6030	XG4U-6004
	2 (See note 3.)	XG4M-6031-U	XG4M-6031	
64	1	XG4M-6430-U	XG4M-6430	XG4U-6404
	2 (See note 3.)	XG4M-6431-U	XG4M-6431	

Note: 1. With open-end cover.

2. Strain Relief sold separately.

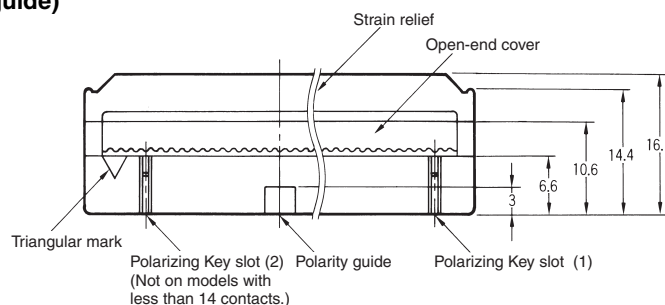
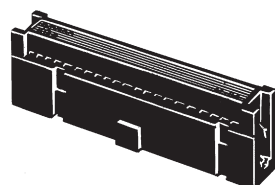
3. Polarity guide pitch is 22.86 mm.

XG4M MIL Sockets

■ Dimensions

XG4M-□□30 (one polarizing guide)

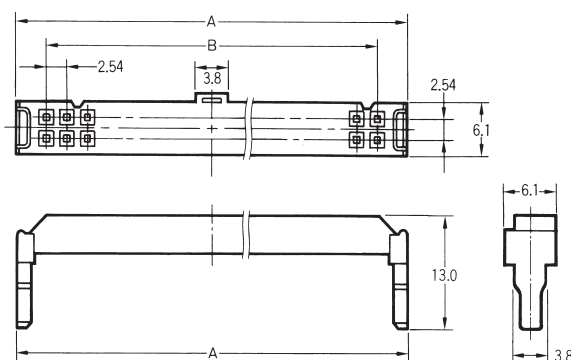
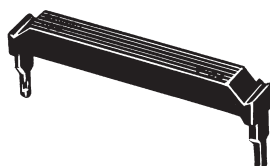
XG4M-□□31 (all others)



Dimensions

No of contacts	Dimensions (mm)	
	A	B
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

XG4T-□□04
Strain Relief



XG4M-□□30-T (XG4M-□□30 + XG4T-□□04)

XG4M-□□31-T (XG4M-□□31 + XG4T-□□04)

MIL Socket and Strain Relief Sets

■ Ordering Information

No. of contacts	No. of polarity guides	Socket and Strain Relief Set (See note 1.)	Socket with Open-end Cover (See note 2.)	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 3.)	XG4M-5031-T	XG4M-5031	
60	1	XG4M-6030-T	XG4M-6030	XG4T-6004
	2 (See note 3.)	XG4M-6031-T	XG4M-6031	
64	1	XG4M-6430-T	XG4M-6430	XG4T-6404
	2 (See note 3.)	XG4M-6431-T	XG4M-6431	

Note: 1. With open-end cover.

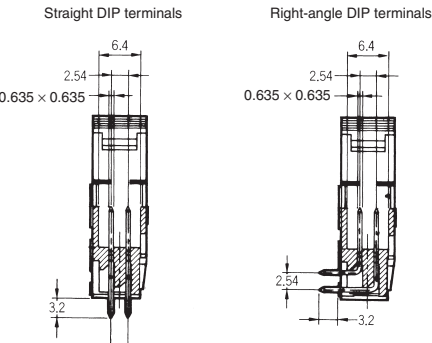
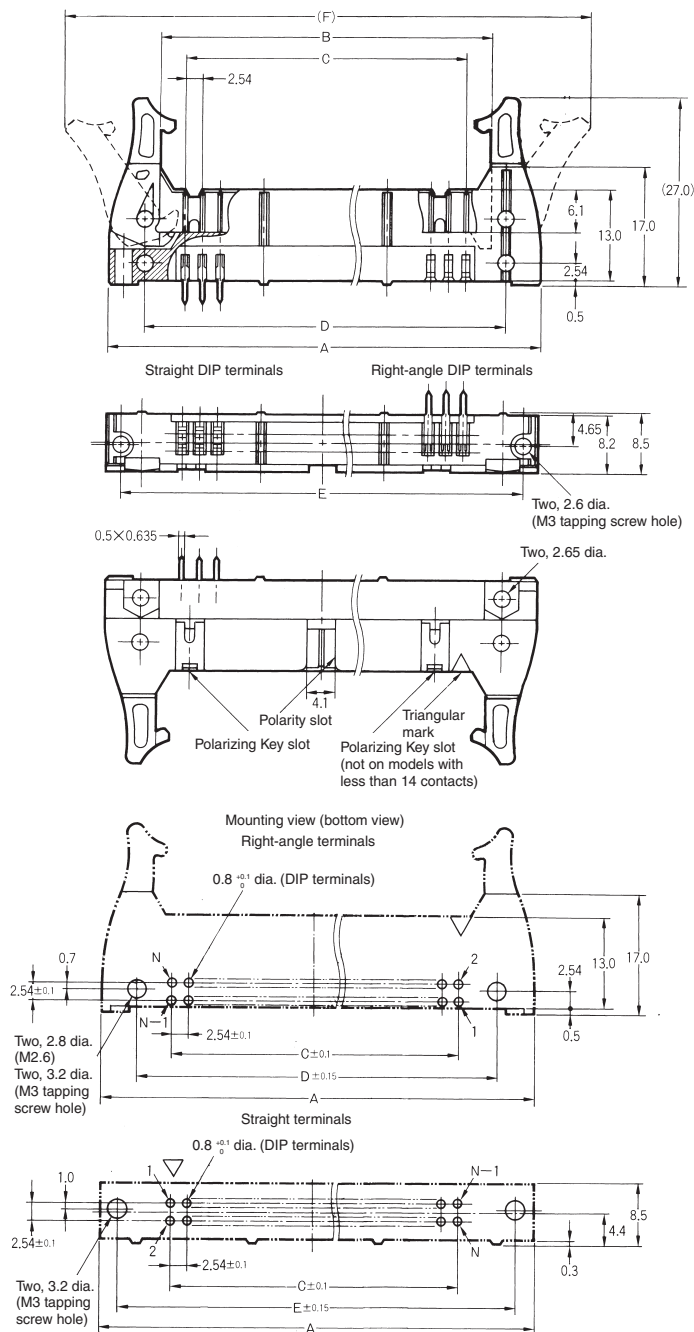
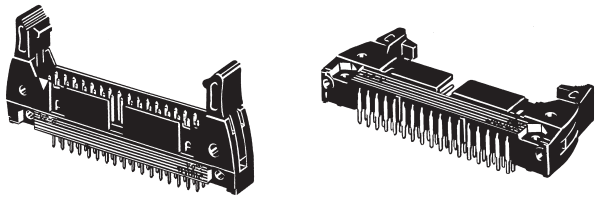
2. Strain Relief sold separately.

3. Polarity guide pitch is 22.86 mm

XG4A MIL Plugs with Long Locks

■ Dimensions

XG4A-□□31/-□□71 (With straight DIP terminals)
XG4A-□□34/-□□74 (With right-angle DIP terminals)



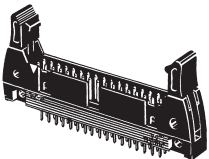
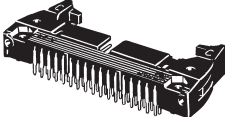
Dimensions

No. of contacts	Dimensions (mm)					
	A	B	C	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 page 14 for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

■ Ordering Information

Use in Combination with Strain-relief Sockets.

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

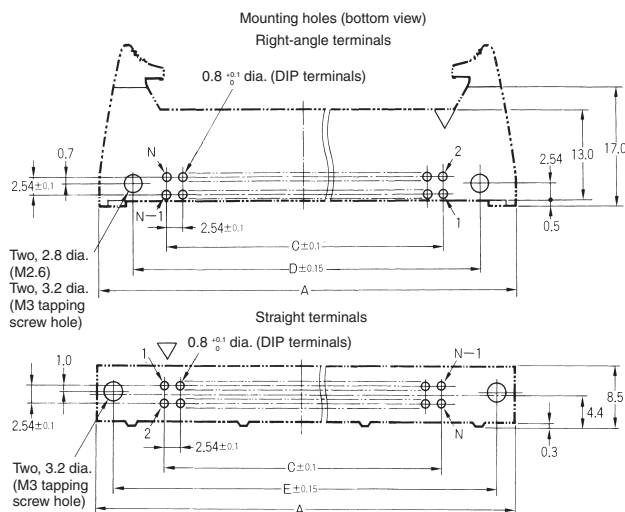
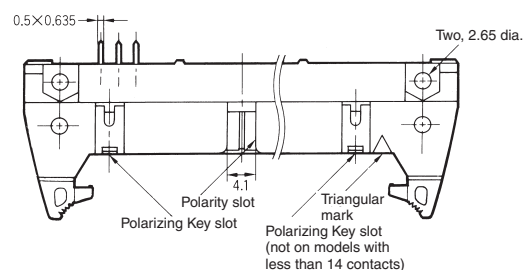
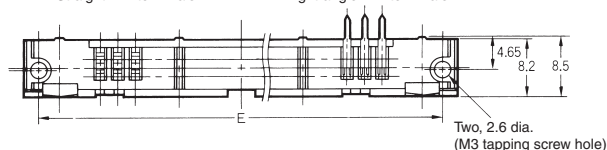
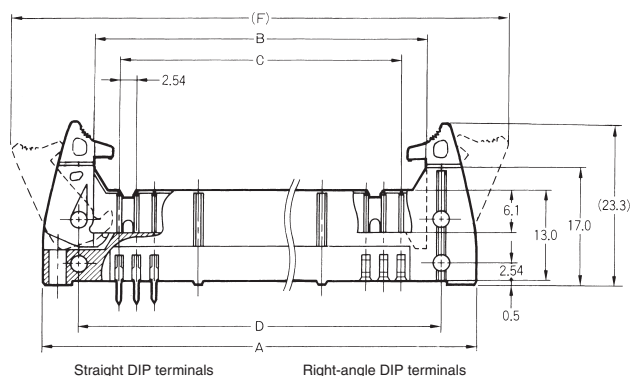
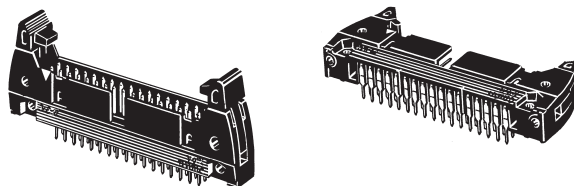
Note: Polarizing slot pitch is 22.86 mm.

XG4A MIL Plugs with Short Locks

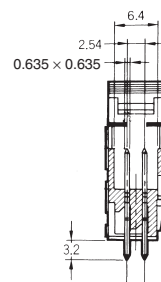
■ Dimensions

XG4A-□□32/-□□72 (With straight DIP terminals)

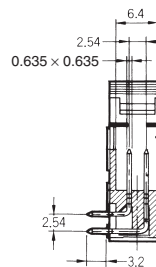
XG4A-□□35/-□□75 (With right-angle DIP terminals)



Straight DIP terminals



Right-angle DIP terminals

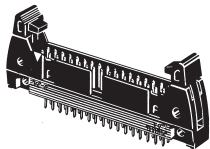
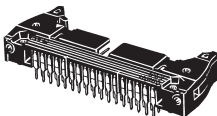


Dimensions

No. of contacts	Dimensions (mm)					
	A	B	C	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 page 14 for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

■ Ordering Information

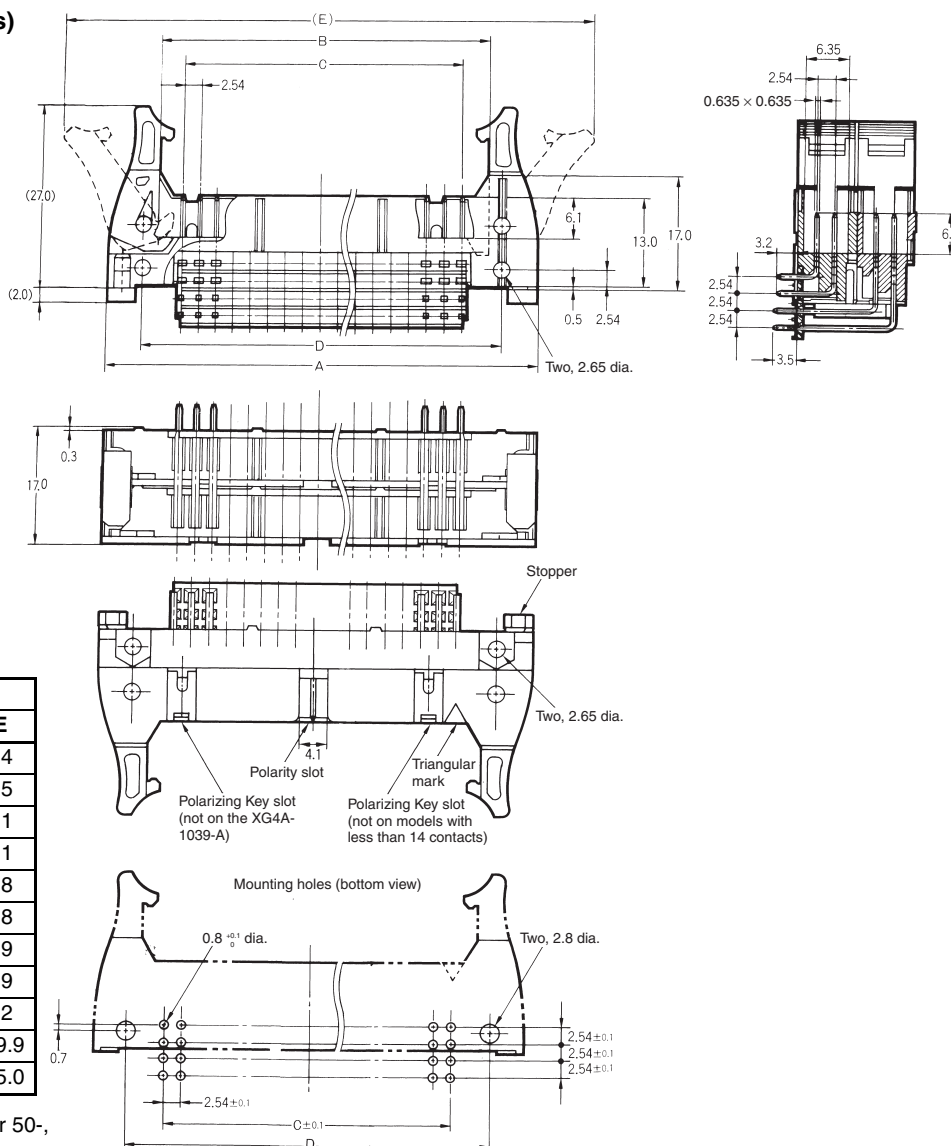
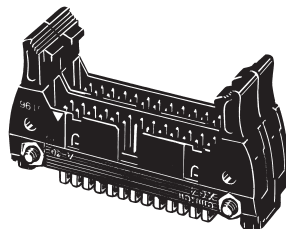
No. of contacts	No. of polarizing slots	Plugs with straight DIP terminals 	Plugs with right-angle DIP terminals 
10	0	XG4A-1072	XG4A-1075
	1	XG4A-1032	XG4A-1035
14	1	XG4A-1432	XG4A-1435
16	1	XG4A-1632	XG4A-1635
20	1	XG4A-2032	XG4A-2035
26	1	XG4A-2632	XG4A-2635
30	1	XG4A-3032	XG4A-3035
34	1	XG4A-3432	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

Note: Polarizing slot pitch is 22.86 mm.

XG4A 2-tier Plugs with Long Lock

■ Dimensions

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



Dimensions

No. of contacts	Dimensions (mm)				
	A	B	C	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.

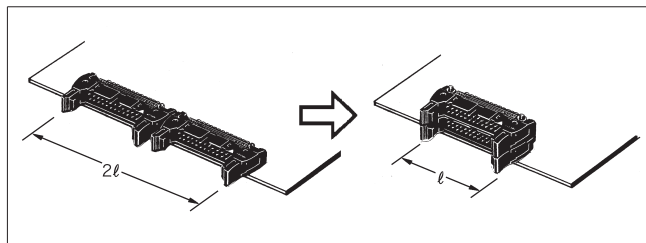
■ Ordering Information

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 Sockets

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

- Note:** 1. Use with the supplied Strain Relief.
 2. Use with the supplied Semi-cover. Hood Cover cannot be used.
 3. Polarity slot pitch is 22.86 mm.

■ 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.

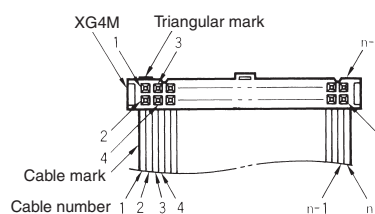
■ Cable Number and Contact Position

Cable and Corresponding Contact Number

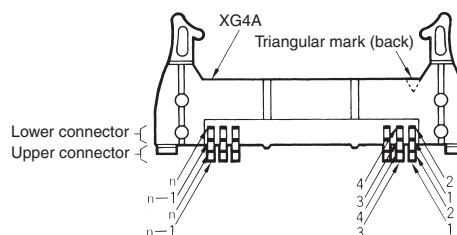
The contact numbers are not marked on the Connector. Use the triangular mark as a guide when wiring and designing circuit boards.

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

Socket (mating side)



Right-angle terminals



■ Precautions

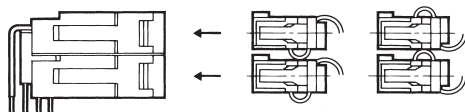
Correct Use

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 the Semi-cover before connecting the XG5M-N. It is not possible to use the Hood Cover.



Soldering

Automated Soldering Conditions (Jet Flow)

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

XG4E Relay Plugs

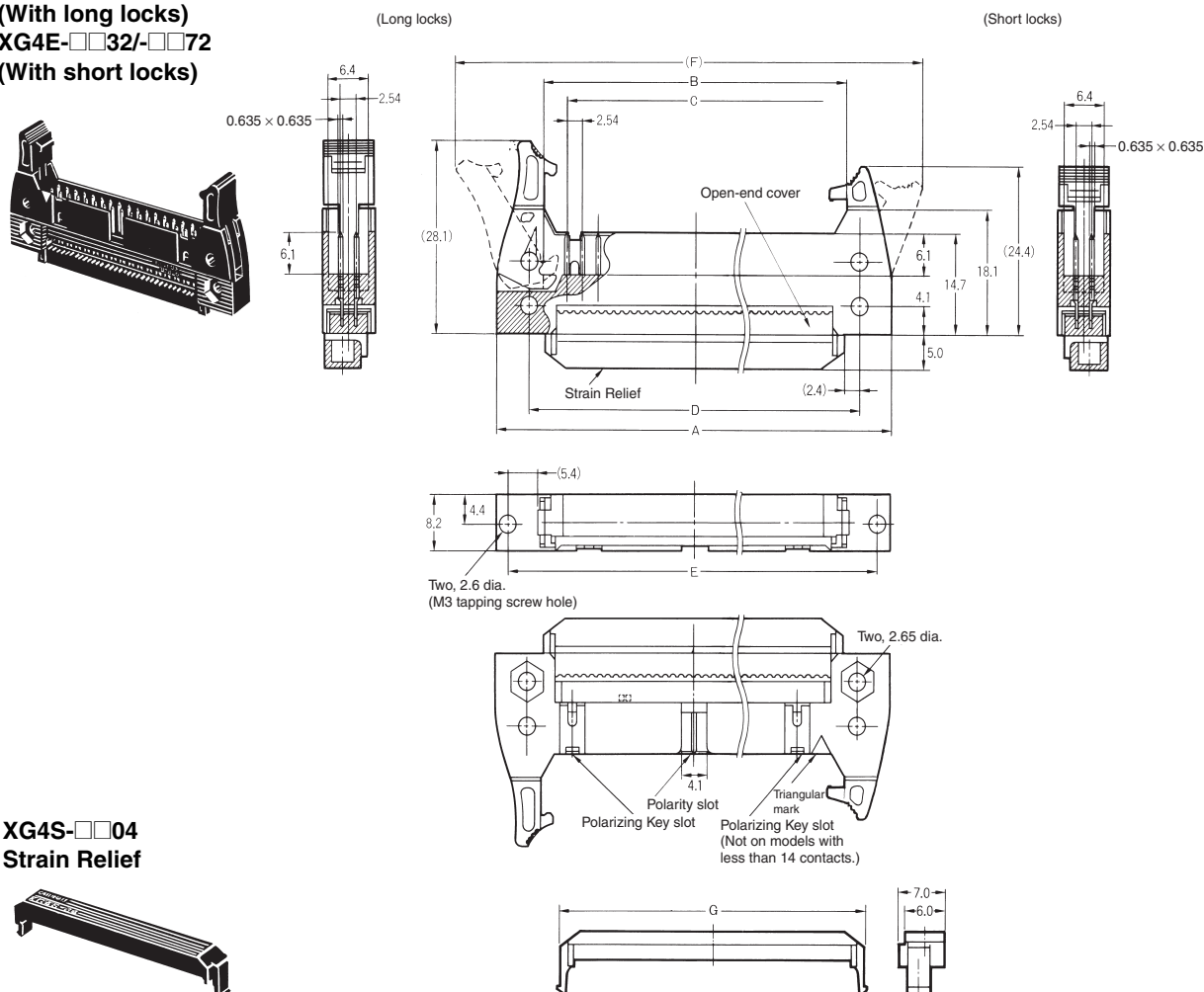
■ Dimensions

XG4E-□□31/-□□71

(With long locks)

XG4E-□□32/-□□72

(With short locks)



XG4S-□□04
Strain Relief



Dimensions

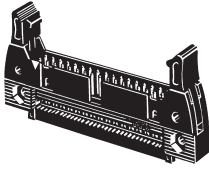
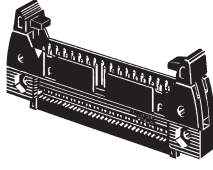
No. of contacts	Dimensions (mm)						
	A	B	C	D	E	F	
						Long Lock	Short Lock
10	32.0	17.5	10.16	21.8	27.9	46.4	40.4
14	37.1	22.6	15.24	26.9	33.0	51.5	45.5
16	39.6	25.2	17.78	29.5	35.6	54.1	46.0
20	44.7	30.2	22.86	34.5	40.6	59.1	53.1
26	52.3	37.9	30.48	42.2	48.3	66.8	60.7
30	57.4	42.9	35.56	47.2	53.3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

Note: See the following page for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

■ Ordering Information

Relay Plugs

Use Long-lock Plugs together with Strain-relief Sockets, and use Short-lock Plugs together with Non-strain-relief Sockets.

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	
64	1	XG4E-6431	XG4E-6432	XG4S-6404
	2 (See note 2.)	XG4E-6471	XG4E-6472	

Note: 1. Strain Relief sold separately.

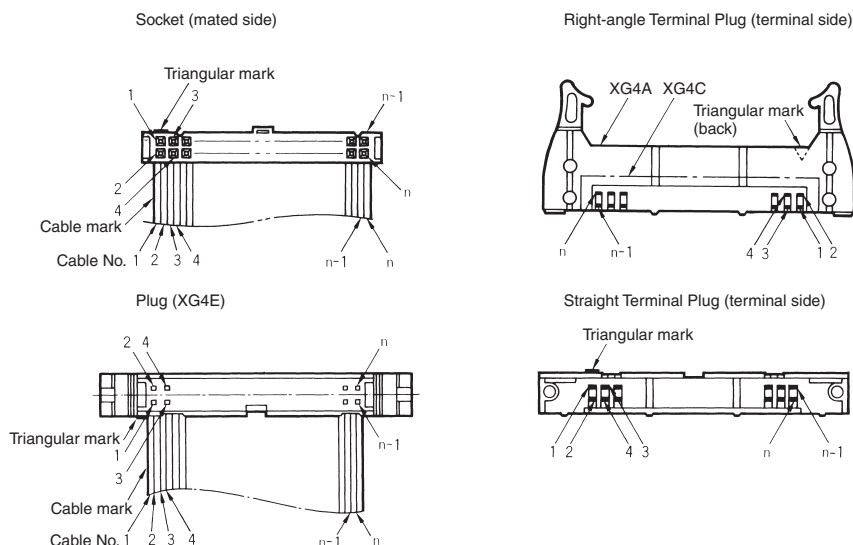
2. Polarity slot pitch is 22.86 mm.

■ 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 on the right.

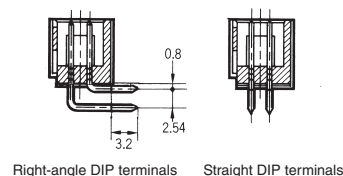
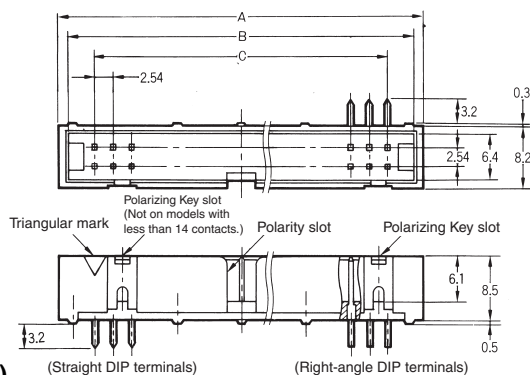
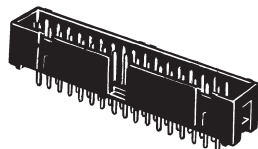


XG4C Box-type Plugs

■ Dimensions

XG4C-□□31/-□□71

(With straight DIP terminals)

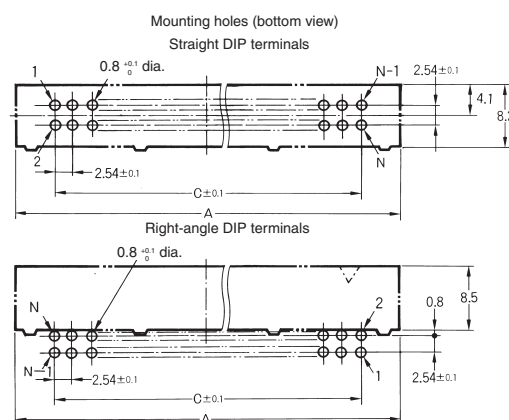
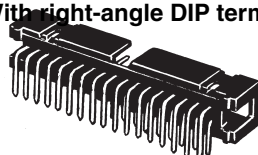


Dimensions

No. of contacts	Dimensions (mm)		
	A	B	C
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

XG4C-□□34/-□□74

(With right-angle DIP terminals)



Note: See the following page for details on the availability (10-contact Connectors) and pitch (with 50, 60, or 64-contact Connectors) of polarity slots.

■ Ordering Information

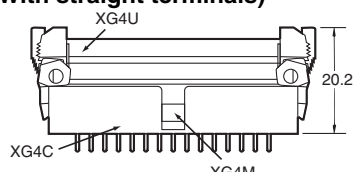
No. of contacts	No. of polarizing slots	Plugs with straight DIP terminals	Plugs with right-angle DIP terminals
10	0	XG4C-1071	XG4C-1074
	1	XG4C-1031	XG4C-1034
14	1	XG4C-1431	XG4C-1434
16	1	XG4C-1631	XG4C-1634
20	1	XG4C-2031	XG4C-2034
26	1	XG4C-2631	XG4C-2634
30	1	XG4C-3031	XG4C-3034
34	1	XG4C-3431	XG4C-3434
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.

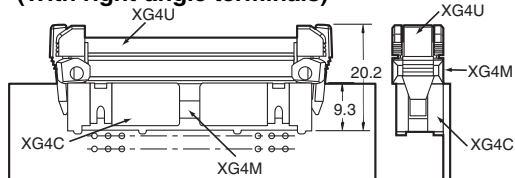
2. The Box-type Plug can be locked using Lock Lever II (sold separately).

Mating Diagrams for XG4M

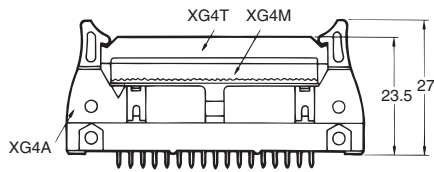
XG4U + XG4M + XG4C
(With straight terminals)



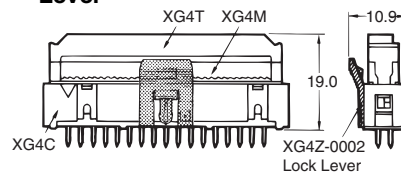
XG4U + XG4M + XG4C
(With right-angle terminals)



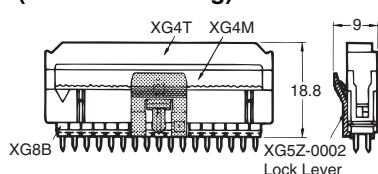
XG4T + XG4M + XG4A



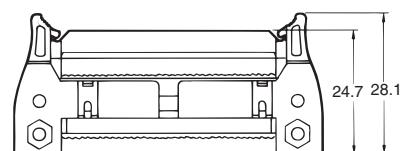
XG4T + XG4M, + XG4C + Lock Lever



XG4T + XG4M + XG8B
(Unshrouded Plug) + Lock Lever



XG4T + XG4M + XG4E



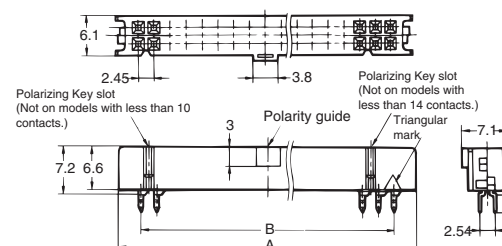
Polarity Slot and Polarizing Key Slot Number and Position

Classification	No. of contacts				
	10 contacts		14 contacts	16 to 40 contacts	50 to 64 contacts
XG4M MIL Socket	XG4M-1031 	XG4M-1030 	XG4M-1430 	XG4M-1630 to XG4M-6430 Polarizing Key slot	
				—	XG4M-5031, XG4M-6031, XG4M-6431 Polarizing guide
XG4A MIL Plug XG4E IDC Plug	XG4A-107□ 	XG4A-103□ 	XG4A-143□ 	XG4A-163□ to XG4A-643□ Polarizing Key slot	
	XG4E-107□ 	XG4E-103□ 	XG4E-143□ 	—	XG4E-163□ to XG4E-643□ Polarizing slot XG4A-507□, XG4A-607□, XG4A-647□ XG4E-507□, XG4E-607□, XG4E-647□
XG4C Box-type Plug	XG4C-107□ 	XG4C-103□ 	XG4C-143□ 	XG4C-163□ to XG4C-643□ Polarizing slot	
				—	XG4C-507□, XG4C-607□, XG4C-647□ Polarizing slot
No. of polarizing guides (Polarizing Slots)	0	1	1	1	1 2 (H = 22.86 mm)
	1	0	1	2	2
No. of Polarizing Key slot (Polarizing Key Slots)	1	0	1	2	2

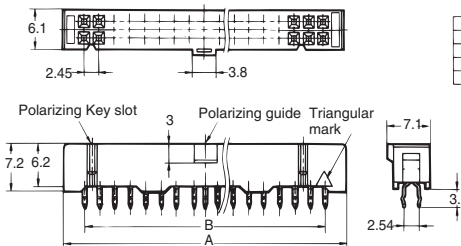
XG4H Board-to-Board Sockets

■ Dimensions

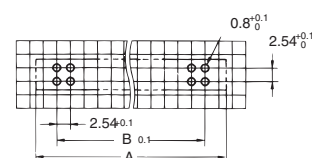
XG4H-□□31/-□□71
(With straight DIP terminals)



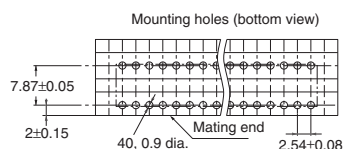
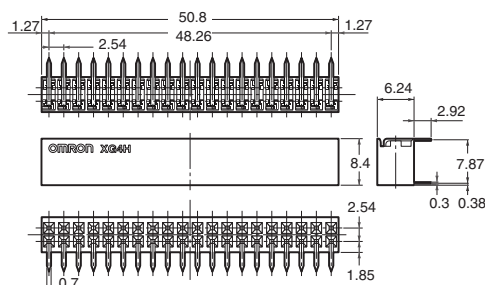
XG4H-3431-1
XG4H-4031-1
(With straight DIP terminals)
*Sockets with model numbers ending in -1 are available only with 34 or 40 contacts (provide kinked terminals and standoff to prevent the Sockets from falling over).



Mounting holes (bottom view)



XG4H-4034
(With right-angle DIP)



Dimensions

No. of contacts	A	B
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

■ 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.

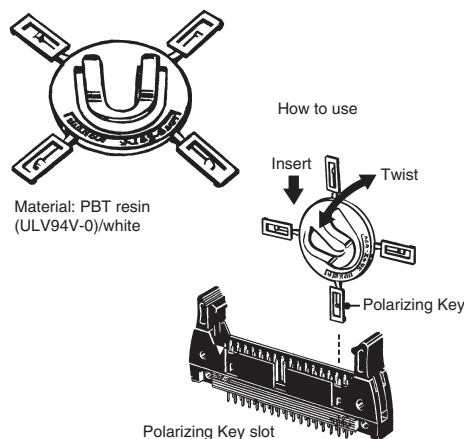
Mating Diagrams for XG4H

Plug	XG8W Original Plugs	XG4C Box-type Plugs
Socket XG4H-□□31/-□□71 (With straight DIP terminals)		
XG4H-4034 (With right-angle DIP terminals)		—

■ Tools and Accessories (Sold Separately)

XG4Z-0004 Polarizing Key

Polarity guides and slots can be used by themselves to help prevent reverse insertion. Use the Polarizing Key as well for best results.

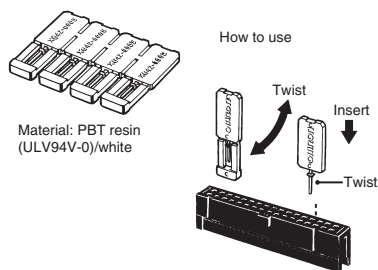


Note: Each XG4Z-0004 has 4 Polarizing Keys.

XG4Z-0005 Coding Pin

(To prevent erroneous insertion)

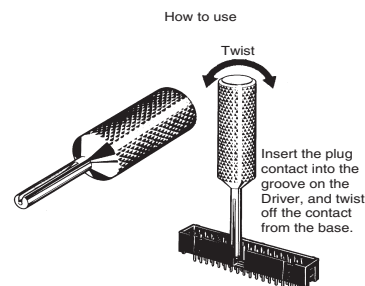
The Coding Pin is used to prevent confusion when many Connectors with the same number of contacts are lined up. It can also be used to prevent reverse insertion when using Connectors without a shroud like the XG8 Unshrouded Plug. The Coding Pin can also be used with XC2, XC5, and XC6 DIN Connectors as well as with XG5 Discrete-wire IDC Connectors.



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

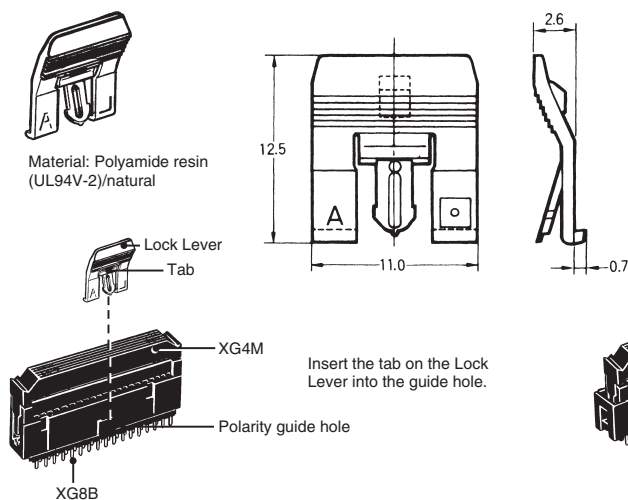
The Contact Cutting Driver is used to cut (twist off) a contact on the mating Plug when using an XG4Z-0005 Coding Pin.



Lock Lever for XG8B and XG8W Plugs (With Right-angle Terminals)

XG5Z-0002

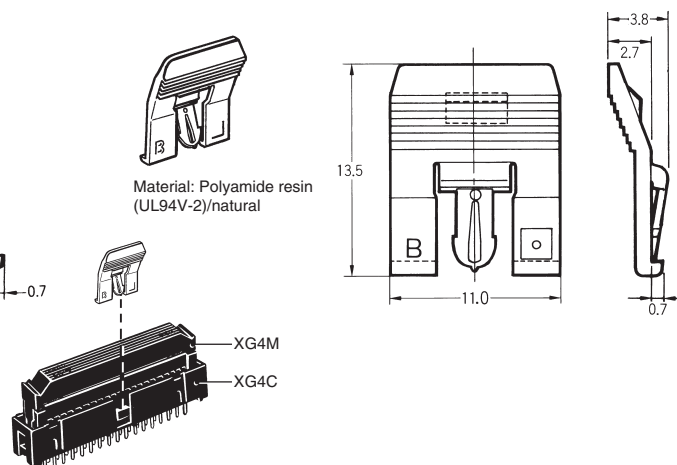
Use to lock Unshrouded Plugs (for XG8B and XG8W Plugs with right-angle terminals).



Lock Lever II for XG4C Plugs

XG4Z-0002

Use to lock XG4C Box-type Plugs.



■ Precautions

Correct Use

• Automated Soldering Conditions (Jet Flow)

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

Omron Electronic Components, LLC

Terms and Conditions of Sales

I. GENERAL

- Definitions:** The words used herein are defined as follows.
 - Terms:** These terms and conditions
 - Seller:** Omron Electronic Components LLC and its subsidiaries
 - Buyer:** The buyer of Products, including any end user in section III through VI
 - Products:** Products and/or services of Seller
 - Including:** Including without limitation
- Offer; Acceptance:** These Terms are deemed part of all quotations, acknowledgments, invoices, purchase orders and other documents, whether electronic or in writing, relating to the sale of Products by Seller. Seller hereby objects to any Terms proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms.
- Distributor:** Any distributor shall inform its customer of the contents after and including section III of these Terms.

II. SALES

- Prices; Payment:** All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment. Payments for Products received are due net 30 days unless otherwise stated in the invoice. Buyer shall have no right to set off any amounts against the amount owing in respect of this invoice.
- Discounts:** Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (a) the invoice is paid according to Seller's payment terms and (b) Buyer has no past due amounts owing to Seller.
- Interest:** Seller, at its option, may charge Buyer 1.5% interest per month or the maximum legal rate, whichever is less, on any balance not paid within the stated terms.
- Orders:** Seller will accept no order less than 200 U.S. dollars net billing.
- Currencies:** If the prices quoted herein are in a currency other than U.S. dollars, Buyer shall make remittance to Seller at the then current exchange rate most favorable to Seller; provided that if remittance is not made when due, Buyer will convert the amount to U.S. dollars at the then current exchange rate most favorable to Seller available during the period between the due date and the date remittance is actually made.
- Governmental Approvals:** Buyer shall be responsible for all costs involved in obtaining any government approvals regarding the importation or sale of the Products.
- Taxes:** All taxes, duties and other governmental charges (other than general real property and income taxes), including any interest or penalties thereon, imposed directly or indirectly on Seller or required to be collected directly or indirectly by Seller for the manufacture, production, sale, delivery, importation, consumption or use of the Products sold hereunder (including customs duties and sales, excise, use, turnover and license taxes) shall be charged to and remitted by Buyer to Seller.
- Financial:** If the financial position of Buyer at any time becomes unsatisfactory to Seller, Seller reserves the right to stop shipments or require satisfactory security or payment in advance. If Buyer fails to make payment or otherwise comply with these Terms or any related agreement, Seller may (without liability and in addition to other remedies) cancel any unshipped portion of Products sold hereunder and stop any Products in transit until Buyer pays all amounts, including amounts payable hereunder, whether or not then due, which are owing to it by Buyer. Buyer shall in any event remain liable for all unpaid accounts.
- Cancellation; Etc:** Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
- Force Majeure:** Seller shall not be liable for any delay or failure in delivery resulting from causes beyond its control, including earthquakes, fires, floods, strikes or other labor disputes, shortage of labor or materials, accidents to machinery, acts of sabotage, riots, delay in or lack of transportation or the requirements of any government authority.
- Shipping; Delivery:** Unless otherwise expressly agreed in writing by Seller:
 - All sales and shipments of Products shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Products shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Products until the full purchase price is paid by Buyer;
 - Delivery and shipping dates are estimates only; and
 - Seller will package Products as it deems proper for protection against normal handling and extra charges apply to special conditions.
- Claims:** Any claim by Buyer against Seller for shortage or damage to the Products occurring before delivery to the carrier must be presented in detail in writing to Seller within 30 days of receipt of shipment.

III. PRECAUTIONS

- Suitability:** IT IS THE BUYER'S SOLE RESPONSIBILITY TO ENSURE THAT ANY OMRON PRODUCT IS FIT AND SUFFICIENT FOR USE IN A MOTORIZED VEHICLE APPLICATION. BUYER SHALL BE SOLELY RESPONSIBLE FOR DETERMINING APPROPRIATENESS OF THE PARTICULAR PRODUCT WITH RESPECT TO THE BUYER'S APPLICATION INCLUDING (A) ELECTRICAL OR ELECTRONIC COMPONENTS, (B) CIRCUITS, (C) SYSTEM ASSEMBLIES, (D) END PRODUCT, (E) SYSTEM, (F) MATERIALS OR SUBSTANCES OR (G) OPERATING ENVIRONMENT. Buyer acknowledges that it alone has determined that the Products will meet their requirements of the intended use in all cases. Buyer must know and observe all prohibitions of use applicable to the Product/s.
- Use with Attention:** The followings are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible use of any Product, nor to imply that any use listed may be suitable for any Product:
 - Outdoor use, use involving potential chemical contamination or electrical interference.
 - Use in consumer Products or any use in significant quantities.

- Energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
 - Systems, machines, and equipment that could present a risk to life or property.
- Prohibited Use:** NEVER USE THE PRODUCT FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.
 - Motorized Vehicle Application:** USE OF ANY PRODUCT/S FOR A MOTORIZED VEHICLE APPLICATION MUST BE EXPRESSLY STATED IN THE SPECIFICATION BY SELLER.
 - Programmable Products:** Seller shall not be responsible for the Buyer's programming of a programmable Product.

IV. WARRANTY AND LIMITATION

- Warranty:** Seller's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Seller (or such other period expressed in writing by Seller). SELLER MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT ALL OTHER WARRANTIES, NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS.
- Buyer Remedy:** Seller's sole obligation hereunder shall be to replace (in the form originally shipped with Buyer responsible for labor charges for removal or replacement thereof) the non-complying Product or, at Seller's election, to repay or credit Buyer an amount equal to the purchase price of the Product; provided that there shall be no liability for Seller or its affiliates unless Seller's analysis confirms that the Products were handled, stored, installed and maintained and not subject to contamination, abuse, misuse or inappropriate modification. Return of any Products by Buyer must be approved in writing by Seller before shipment.
- Limitation on Liability:** SELLER AND ITS AFFILIATES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY. FURTHER, IN NO EVENT SHALL LIABILITY OF SELLER OR ITS AFFILIATES EXCEED THE INDIVIDUAL PRICE OF THE PRODUCT ON WHICH LIABILITY IS ASSERTED.
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V. INFORMATION; ETC.

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