Flat Cable Connectors

XG4

The Mainstream of Circuit Board Connectors conforming MIL Standards with Improved Design.

- Our new production system improves reliability.
- 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.
- Conform to MIL standards (MIL-C-83503).
- UL standards (file No. E103202) (All XG4 models except those with XG4U and XG4H)

RoHS Compliant

■ Terminology

MIL standard

Abbreviation for Military Standard. To unify the compatibility and quality assurance condition of each company, MIL-C-83503 (applicable to connectors) was established in 1977

Open-end cover

An open-end cover has a structure where a flat cable can be pulled out from both sides of the cover when a cable is attached to a connector. (The cover having a structure where a flat cable can be pulled out from only one side of the cover is called a "Closed-end cover.")



Standoff

Part provided for lifting the housing from the board (This part improves airflow at the through-hole for better assembly.)

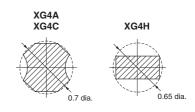
■Ordering Information

Model	XG4M XG4M-U	XG4M XG4T	XG4A	XG4A	XG4E XG4S	XG4C	XG4H
Appear- ance	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 con- nector sockets
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■ 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.)			
Total insertion force	1.96 N max. per contact			
Removal force	0.39 N min. (with test gauge, t= 0.64 mm)			
Insertion durability	50 times			
Ambient operating temperature	Operating: –55 to 105°C (with no icing)			

■ Cross-sectional View of Terminal



Note: 1. The rated current will depend on the Socket you are using. It is 1 A using the XG4M for example.

■ Materials and Finish

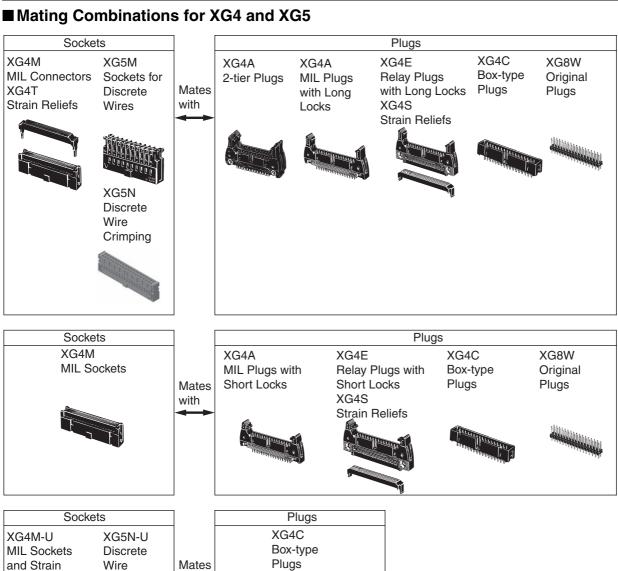
Item		MIL Plugs: XG4A Box-type Plugs: XG4C	Relay Plugs: XG4E (Strain Relief: XG4S)	MIL Sockets: XG4M (Strain Relief: XG4T)	Board-to-board Connector: XG4H	
Housings Fiber-glass reinforced PBT re			sin (UL94V-0)/black			
Covers			Polyamide resin (UL94V-0)/ black	Fiber-glass reinforced PBT resin (UL94V-0)/black		
gold plating			Phosphor bronze/nickel base, 0.15-μm gold plating			
		Phosphor bronze/nickel base, 2.0-μm tin plating				
Strain Reliefs			Polyamide resin (UL94V-0)/ black	Fiber-glass reinforced PBT resin (UL94V-0)/black		

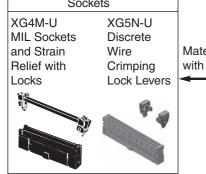
■ Applicable Wires

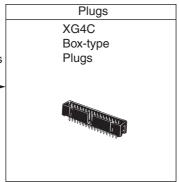
For pressing

1.27-mm pitch flat cable incorporating AWG28 wires

- UL2651(standard cable)
- UL20012 (folding cable)
- UL20028 (color-coded cable)



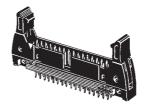


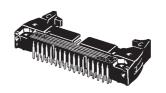


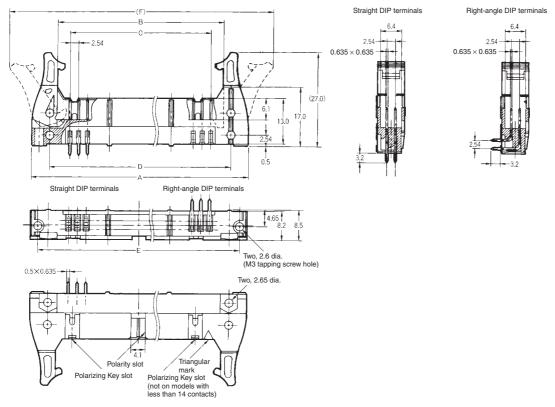
XG4A MIL Plugs with Long Locks (MIL Standards)

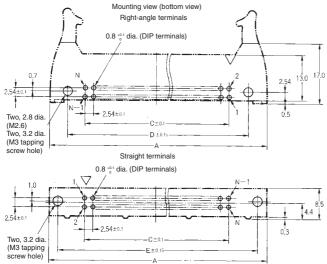
■ Dimensions (Unit: mm)

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









Dimensions

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 page 16 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.

Mouser Electronics

Authorized Distributor

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Omron: XG4A-2034