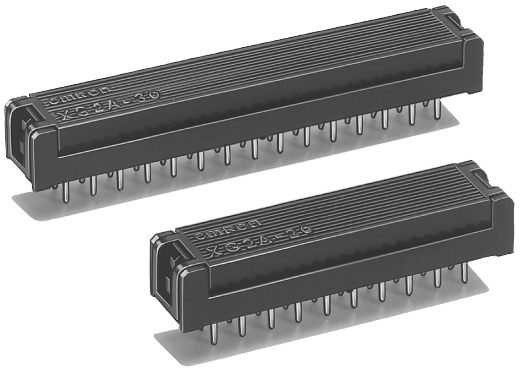
OMRON

Flat Cable Connectors for PCBs

XG2

Achieve Total Cost Reduction through High-density Mounting and Reduced Wiring

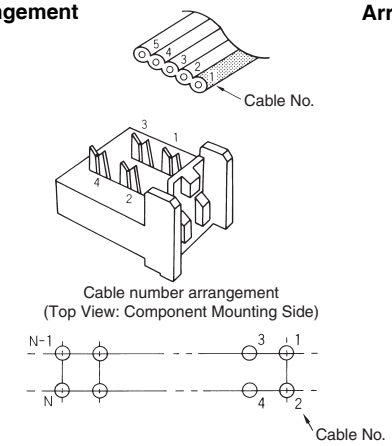


- IDC connections allow you to wire all terminals at once without terminating the cable.
- Can be DIP-soldered directly to the circuit board.
- Small size (height 5.8 mm, width 6.8 mm) allows more efficient use of circuit board space.
- Uses a 2.54-mm grid terminal arrangement for easier design of circuits.
- Type: standard and reverse.
- Uses UL94 V-0 approved insulation material.
- The IDC Tool has Attachments for all terminals. The result is efficient, labor-saving wiring.

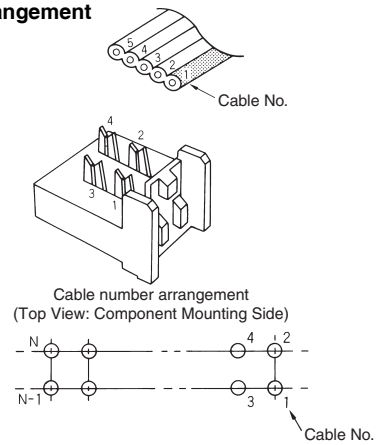
■ Terminal Arrangement

The contact numbers are not marked on the Connector. If the cables are numbered from 1 starting from the edge, the relationship between the wires and the terminals would be as shown at the right.

Standard Terminal Arrangement



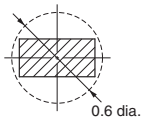
Reverse Terminal Arrangement



■ Ratings and Characteristics

Rated current	1 A
Rated voltage	250 VAC
Contact resistance	15 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.)
Ambient operating temperature	–55 to 85°C (with no icing at low temperature)

■ Cross-sectional View of Terminal



■ Materials and Finish

Base		Fiber-glass reinforced PBT resin (UL94 V-0)/black
Contacts	Mating end	Copper alloy/nickel base, 2.0-μm tin plating
	Terminals	Copper alloy/nickel base, flash gold plated
Cover		Fiber-glass reinforced PBT resin (UL94 V-0)/black

■ Applicable Wires

1.27-mm pitch, AWG28, 7-strand flat cable.

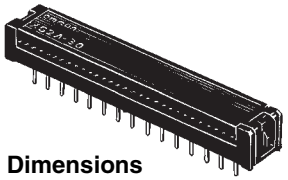
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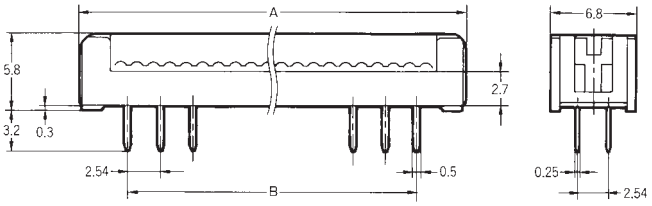
XG2A Double-row PCB Connectors

■ Dimensions

(Unit: mm)

Standard Terminal Arrangement: XG2A-□□01
Reverse Terminal Arrangement: XG2A-□□02



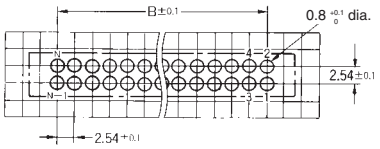


Dimensions

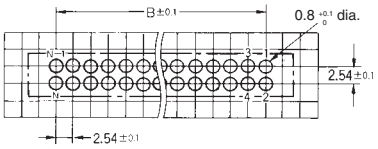
No. of contacts	Dimensions (mm)	
	A	B
10	17.9	10.16
14	22.9	15.24
16	25.5	17.78
20	30.6	22.86
26	38.2	30.46
30	43.3	35.56
34	48.3	40.64
40	56.0	48.26
50	68.7	60.96
60	81.4	73.66
64	86.4	78.74

Mounting holes (bottom view)

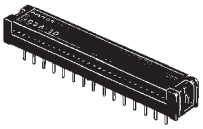
Standard terminal arrangement



Reverse terminal arrangement



■ Ordering Information

Appearance		
No. of contacts	**Connectors with standard terminal arrangement**	**Connectors with reverse terminal arrangement**
10	XG2A-1001	XG2A-1002
14	XG2A-1401	XG2A-1402
16	XG2A-1601	XG2A-1602
20	XG2A-2001	XG2A-2002
26	XG2A-2601	XG2A-2602
30	XG2A-3001	XG2A-3002
34	XG2A-3401	XG2A-3402
40	XG2A-4001	XG2A-4002
50	XG2A-5001	XG2A-5002
60	XG2A-6001	XG2A-6002
64	XG2A-6401	XG2A-6402

Note: The cover is an open-end type.

■ Precautions

Correct Use

Handling

- There is no Strain Relief for the PCB Connector. Leave enough slack to avoid tension on the cable.
- Terminals can be press fit no matter which direction the base and cover are facing.
- See the pages on the XG4 or XG2 connector for information on special tools, such as IDC press tools.

Automated Soldering Conditions (Jet Flow)

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

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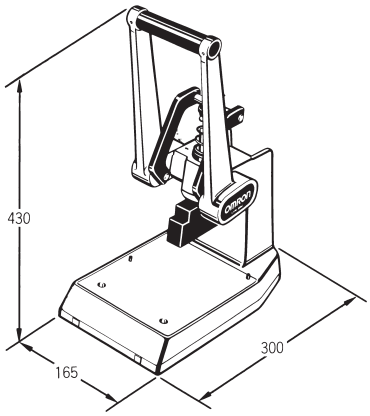
■ Approval Standard

The approval rating values for overseas standards are different from the performance values determined individually. Confirm the values before use.

Model	Standard	File No.	Rating
XG2A-□□01	Non Approved Models	---	---
XG2A-□□02	Non Approved Models	---	---

■ Special Tools

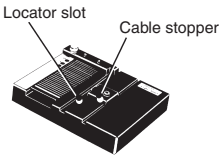
XY2B-0002
IDC Tool



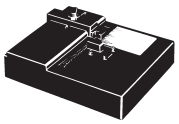
Model
XY2B-0002

■ IDC Tool Attachments for XG4M and XG2A

XY2B-1007
Attachment for the XG4M



XY2B-1006
Attachment for the XG2A



Operation

XG4M-series Connectors must be placed face down into the locator slot of the Attachment. (With the XG2A Series, place the terminal block in the Attachment.) Insert the cable until it is flush against the cable stopper. Connections are made by pulling the handle towards you until it stops. For details on operation, see the user's manual supplied with the IDC Tool.

Combinations

IDC Tool	Attachment	Applicable Socket
XY2B-0002	**XY2B-1007**	XG4M (All contacts)
	XY2B-1006	XG2A (All contacts)

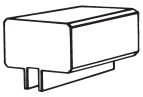
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■ IDC Tool Attachments for XG4E

XY2B-1004
Attachment for the XG4E

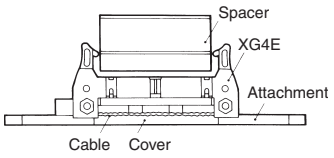


XY2B-14□□
Spacer for the XG4E



Operation

XG4E-series Connectors must be placed face down into the locator slot of the Attachment. Insert the cable until it is flush against the cable stopper. Next set the proper spacer for the Plug. Connections are made by pulling the handle towards you until it stops.



Combinations

IDC Tool	Attachment	Spacer	Applicable Plug
XY2B-0002	**XY2B-1004**	XY2B-1401	XG4E-10□1/-10□2 XG4E-1431/-1432
		XY2B-1402	XG4E-1631/-1632 XG4E-2031/-2032
		XY2B-1403	XG4E-2631/-2632 XG4E-3031/-3032
		XY2B-1404	XG4E-3431/-3432
		XY2B-1405	XG4E-4031/-4032
		XY2B-1406	XG4E-50□1/-50□2
		XY2B-1407	XG4E-60□1/-60□2 XG4E-54□1/-64□2

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