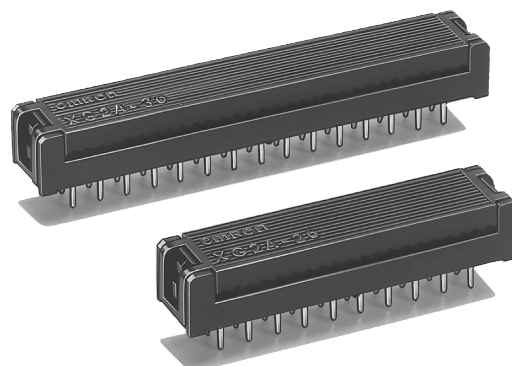


Flat Cable Connectors for PCBs

XG2

**Ideal for high-density mounting.
IDC design allows for quick termination.**

- Part of a total flat cable wiring solution, when used in conjunction with XG4, XG5 and XG8 sockets and plugs.
- End terminates cable to a PCB or acts as a pass through for connection to other cables or PCB's.
- Uses a standard 2.54-mm grid terminal arrangement for easier design of circuits.
- Terminal Arrangement: standard or reverse.
- Uses UL94V-0 approved insulation material.
- IDC Assembly Tools are available.

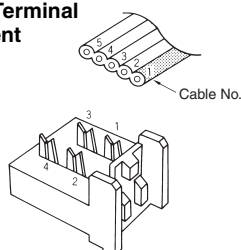


XG2 Connectors

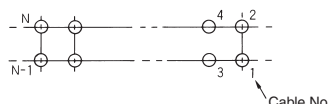
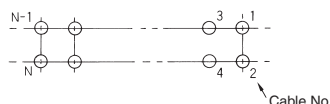
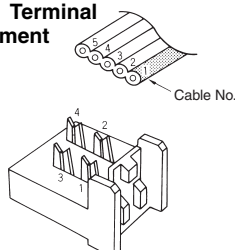
■ Terminal Arrangement

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 below.

Standard Terminal Arrangement



Reverse Terminal Arrangement



Cable number arrangement (top view)

■ 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.)
Operating temperature	-55°C to 85°C (with no icing at low temperature)

■ Materials and Finish

Base	Fiber-glass reinforced PBT resin (UL94V-0)/black	
Contacts	Mating end	Copper alloy/nickel base, tin plating
	Terminals	Copper alloy/nickel base, tin plating
Cover	Fiber-glass reinforced PBT resin (UL94V-0)/black	

■ Applicable Wires

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

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

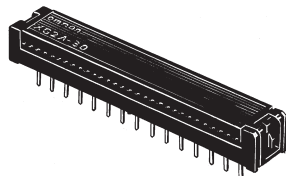
Double-row PCB Bus Connectors

■ XG2A

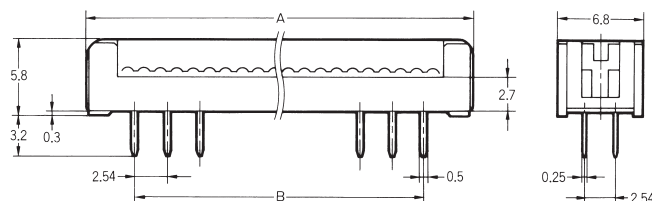
Dimensions

Standard Terminal Arrangement: XG2A-□□01

Reverse Terminal Arrangement: XG2A-□□02

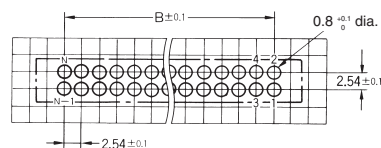


No. of contacts	Dimensions (mm)	
	A	B
10	17.9	10.16
14	22.9	15.24
16	25.5	17.78
20	30.6	22.86
26	38.2	30.46
30	43.3	35.56
34	48.3	40.64
40	56.0	48.26
50	68.7	60.96
60	81.4	73.66
64	86.4	78.74

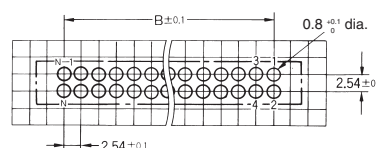


Mounting holes (bottom view)

Standard terminal arrangement

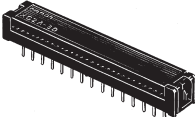


Reverse terminal arrangement



Note: The cover is an open-end type.

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

Precautions

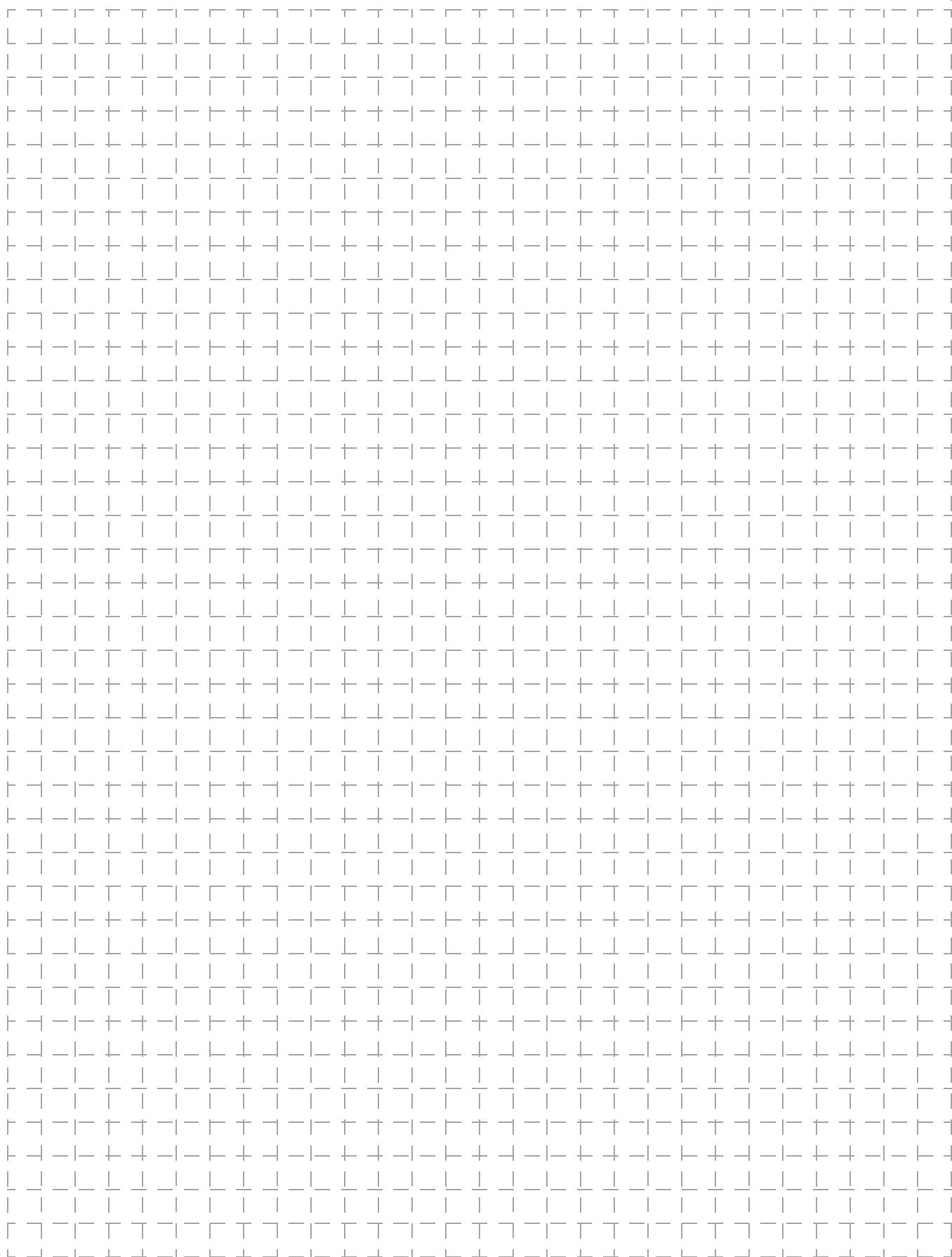
Correct Use

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 "XG□ - Assembly Tooling and Accessories" datasheet for information on flat cable / connector assembly tools.

Automated Soldering Conditions (Jet Flow)

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



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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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