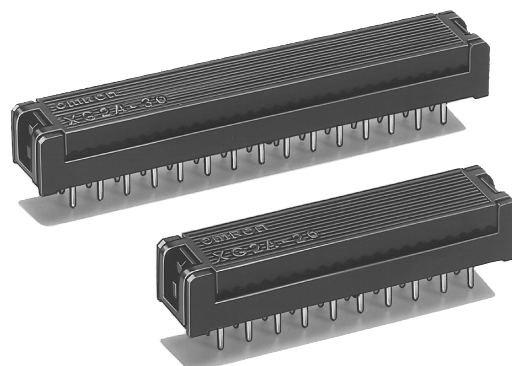


# Flat Cable Connectors for PCBs XG2

**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.

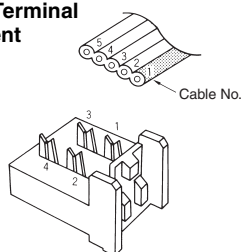


## XG2 Connectors

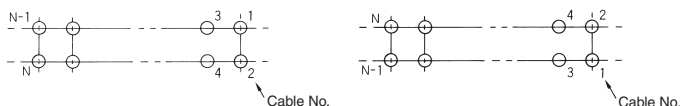
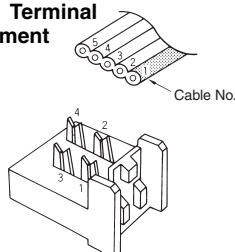
### Terminal Arrangement

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

<b>Rated current</b>	1 A
<b>Rated voltage</b>	250 VAC
<b>Contact resistance</b>	15 mΩ max. (at 20 mV, 100 mA max.)
<b>Insulation resistance</b>	1,000 MΩ min. (at 500 VDC)
<b>Dielectric strength</b>	500 VAC for 1 min. (leakage current: 1 mA max.)
<b>Operating temperature</b>	-55°C to 85°C (with no icing at low temperature)

### Materials and Finish

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

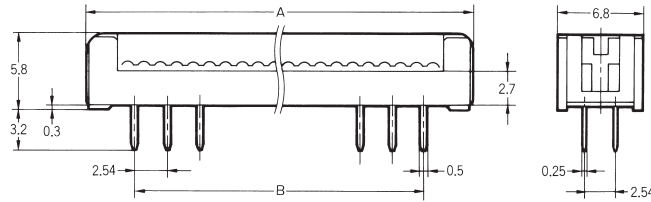
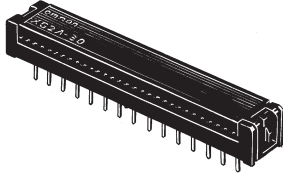
# Double-row PCB Bus Connectors

## ■ XG2A

### Dimensions

Standard Terminal Arrangement: XG2A-□□01

Reverse Terminal Arrangement: XG2A-□□02

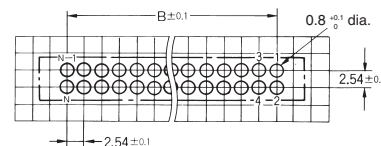
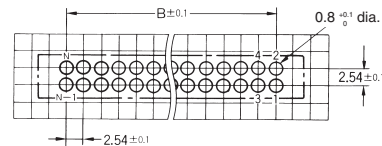


No. of contacts	Dimensions (mm)	
	A	B
10	17.9	10.16
14	22.9	15.24
16	25.5	17.78
20	30.6	22.86
26	38.2	30.46
30	43.3	35.56
34	48.3	40.64
40	56.0	48.26
50	68.7	60.96
60	81.4	73.66
64	86.4	78.74

Mounting holes (bottom view)

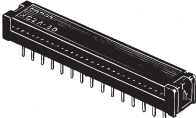
Standard terminal arrangement

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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