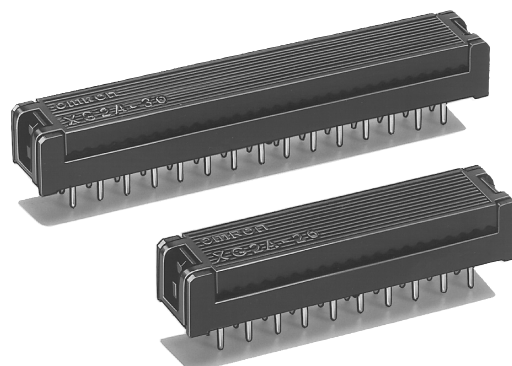


Flat Cable Connectors for PCBs XG2

**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.

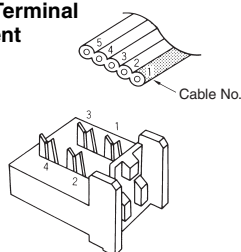


XG2 Connectors

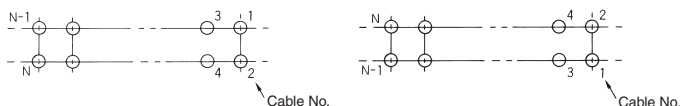
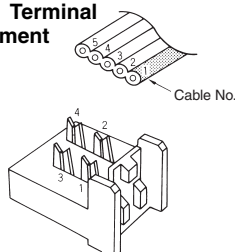
Terminal Arrangement

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)

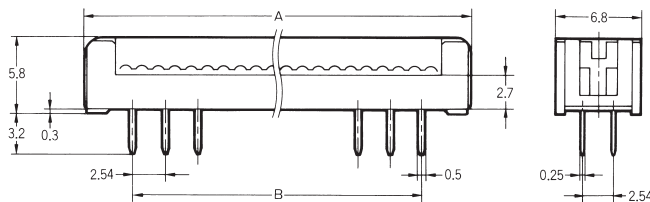
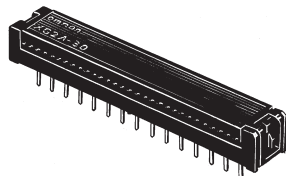
Double-row PCB Bus Connectors

■ XG2A

Dimensions

Standard Terminal Arrangement: XG2A-□□01

Reverse Terminal Arrangement: XG2A-□□02

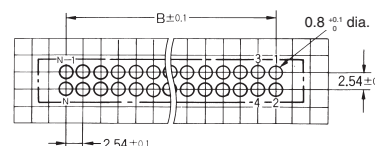
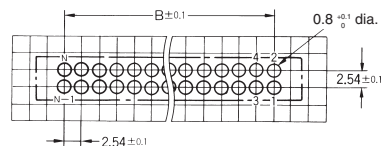


| No. of contacts | Dimensions (mm) | |
|-----------------|-----------------|-------|
| | A | B |
| 10 | 17.9 | 10.16 |
| 14 | 22.9 | 15.24 |
| 16 | 25.5 | 17.78 |
| 20 | 30.6 | 22.86 |
| 26 | 38.2 | 30.46 |
| 30 | 43.3 | 35.56 |
| 34 | 48.3 | 40.64 |
| 40 | 56.0 | 48.26 |
| 50 | 68.7 | 60.96 |
| 60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

Mounting holes (bottom view)

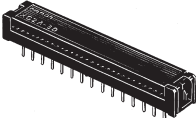
Standard terminal arrangement

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 ± 5°C
2. Continuous soldering time: Within 5 s



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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
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