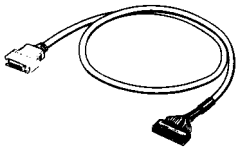
XW2Z Cable for MC Unit Terminal Block for Two or Four Axes

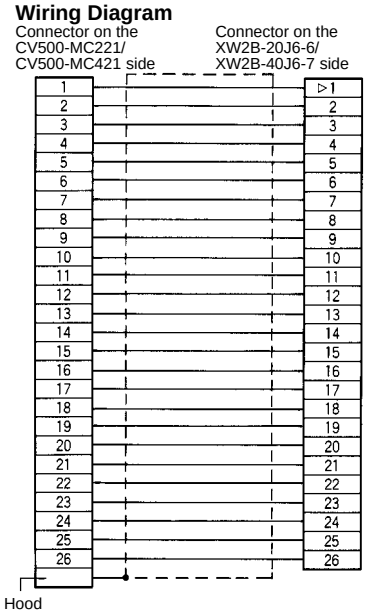
Connecting the MC Unit and MC Unit Terminal Block

For CV500-MC221/CV500-MC421 Use

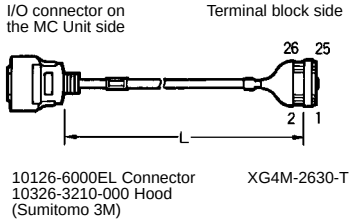
XW2Z-100J-F1



Wiring Diagram



Connector



■ Ordering Information

Cable length L (mm)	Model	Applicable Unit	Applicable MC Unit Terminal Block
1000	XW2-100J-F1	CV500-MC221 (for two axes) CV500-MC421 (for four axes)	XW2B-20J6-6 XW2B-40J6-7

■ Specifications

Rated current	0.5 A
Rated voltage	24 VDC
Contact resistance	20 mΩ max. (with 100 mA max. at 20 mV max.) (See note 1) 35 mΩ max. (with 1.5 mA max. at 20 mA max.) (See note 2)
Insulation resistance	5 MΩ min. (at 500 VDC)
Dielectric strength	500 VAC for 1 min (with a current leakage of 1 mA max.) (See note 3)
Enclosure rating	IP00
Electrical protection	Class 0
Ambient temperature	Operating: 0°C to 55°C

Note: 1. The resistance indicated is the contact resistance of the connector on the MC Unit Terminal Block side.
2. The resistance indicated is the contact resistance of the connector on the MC Unit side.
3. The voltage indicated is the dielectric strength of the connectors on the MC Unit Terminal Block side and MC Unit side.

■ Materials/Finish

Item	Parts	Materials/Processing
Connector XG4M-2630-T	Housing	Black PBT resin with glass (UL94V-0)
	Strain relief	Black PBT resin with glass (UL94V-0)
	Contact	Copper-alloy and nickel plated with 0.15-μm-thick gold (contact-carrying part)
Connector (Sumitomo 3M) 10126-6000EL (press-fit 26-pole plug)	Housing	Black polyester resin with glass (UL94V-0)
	Contact	Copper-alloy and nickel plated with 0.3-μm-thick gold (contact-carrying part)
Hood (Sumitomo 3M) 10326-3210-000	Plastic shell (straight type)	Beige ABS resin (UL94V-0)
Cable	Equivalent to UL20276 BC14P-SB AWG28 (7/0.127)	

■ Precautions

Wiring

The open terminal must be left unconnected.

0-V and common terminals are connected internally.

Do not wire the Unit while power is supplied to the Unit, otherwise the terminals may be short-circuited with the cable and the Unit may malfunction.

Do not connect or disconnect the connector while power is supplied to the Unit, otherwise the Unit may malfunction.

Terminal Wire Connections

The suitable crimp terminal is R1.25-3 (round or fork type).

Mounting

More than one XW2B MC Unit Terminal Unit can be densely mounted to a DIN track, in which case, move the mounting stays from both sides of the XW2B to the bottom of the XW2B.

Secure both ends of the XW2B with end plates.

Terminal Screw Tightening Torque

When connecting crimp terminals or wires to the terminal block, be sure to tighten each crimp terminal or wire to 0.5 to 0.8 N • m (4.8 to 7.8 kgf • cm).