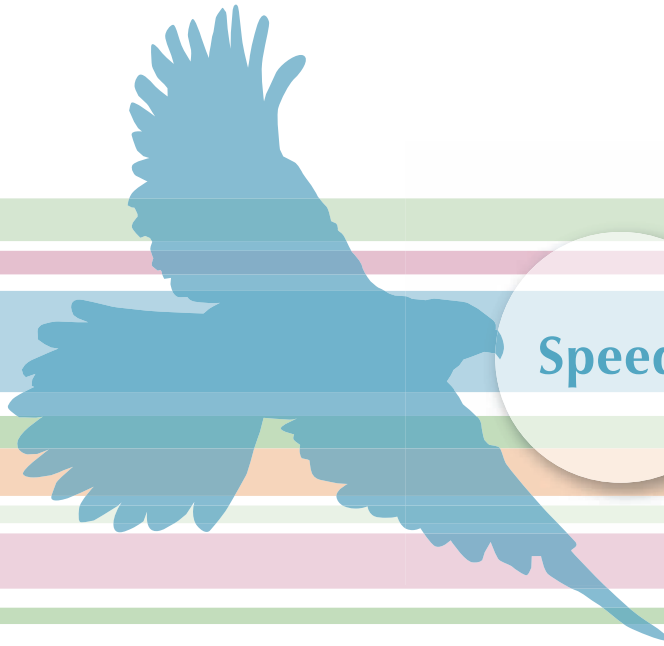


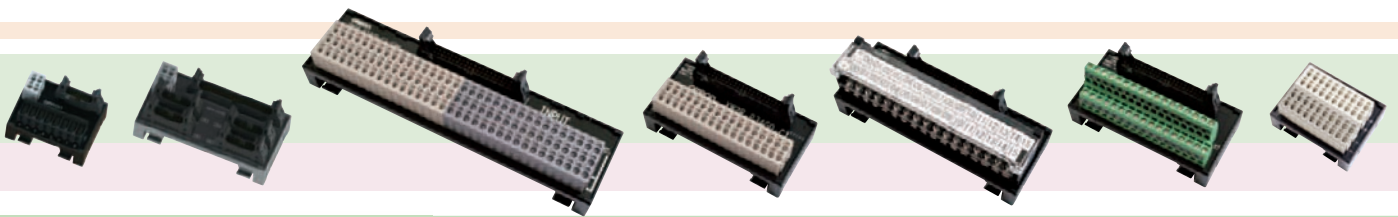
Connector-Terminal Block Conversion Unites

## XW2R Series

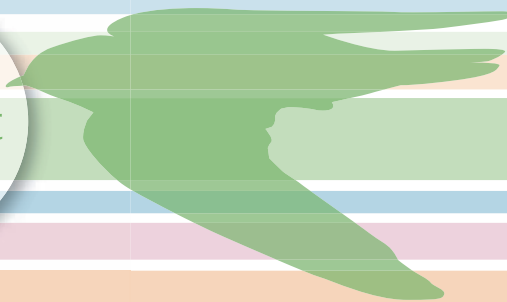


Speedy

Get Waste-free Connections in the Ideal Style



Excellent



Universal

Select from

3

Different Styles



# Select from Three Styles of Units for a Dramatic

## Are You Wasting Work, Time, and Space Connecting to

FALCON

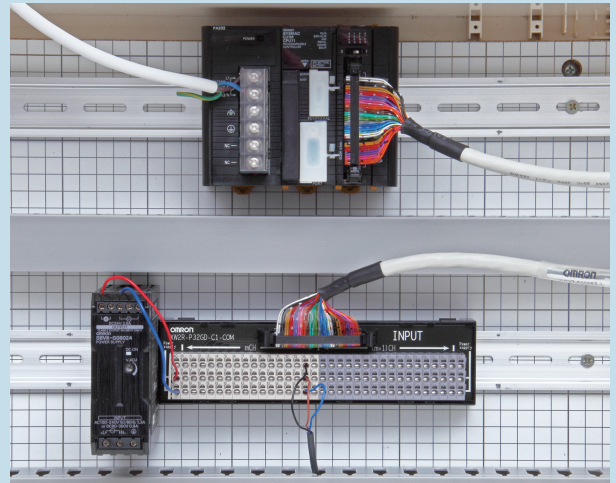


# Speedy

## Extreme Savings in Wiring

Power supply terminals help you dramatically save work in wiring with only one terminal block.

Units with Power Supply Terminals for PLCs



SWALLOW

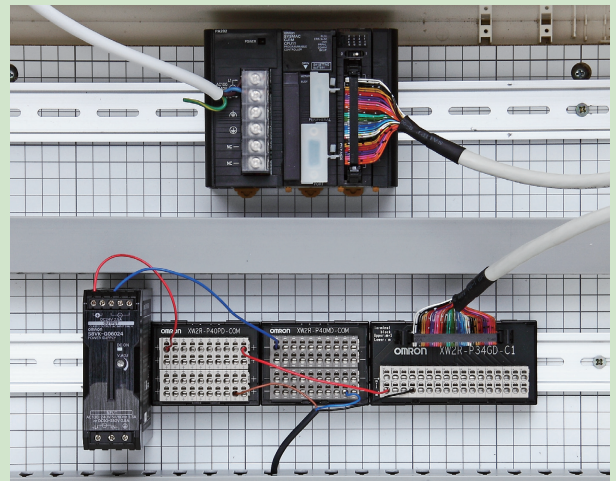


# Excellent

## Extremely Easy to Connect

A wiring pattern that is specialized for PLCs reduces work and mistakes in checking signal layouts.

Units for PLCs + Common Terminal Block



PIGEON

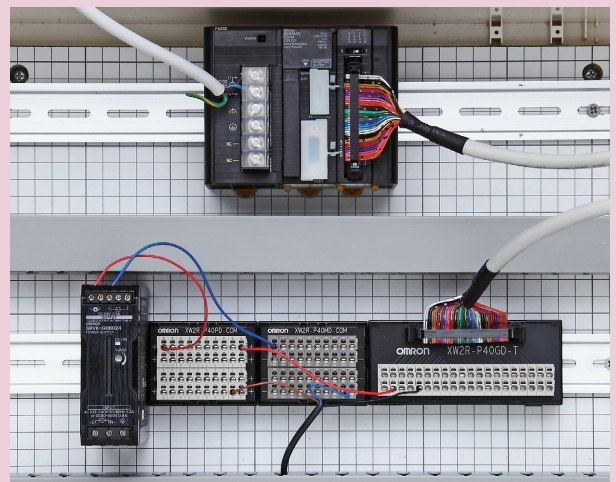


# Universal

## Outstanding Adaptability

Adaptability means you can handle all types of applications, helping to reduce the number of stocked parts.

Units for General-purpose Devices



# Savings in Wiring and Wiring Work

## Connector-Terminal Block Conversion Units?

Total Length	Superior (186.7mm)
Connection Work	Superior (8 min, 56 s)
Features	Specialized for connecting PLCs; power terminals provided.
Flexibility	Reasonable
Details	Page 4

Total Length	Good (227.3mm)
Connection Work	Good (9 min, 14 s)
Features	Specialized for connecting PLCs.
Flexibility	Reasonable
Details	Page 5

Total Length	Reasonable (242.3mm)
Connection Work	Reasonable (12 min, 26 s)
Features	Wire connectors and terminal blocks connected 1:1.
Flexibility	Superior
Details	Page 5

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<b>Selecting Cables for Connector-Terminal Block Conversion Units</b>	<b>10</b>
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\*Results of OMRON comparison for 32 I/O points.

# Speedy Extreme Savings in Wiring

Dramatically reduce wiring and wiring work. Increase work standardization. Ideal for connecting to PLCs from just about any company.



Type      Wiring method

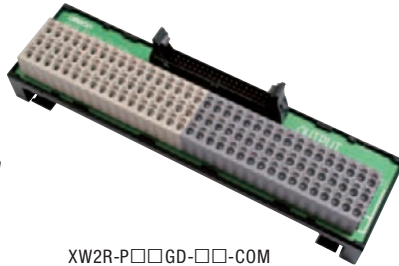
Units with Power Supply Terminals for PLCs      Push-in spring      e-CON

## Connector-Terminal Block Conversion Units with Power Supply Terminals

XW2R-□□□GD-□□-COM



XW2R-N□□GD-C□-COM



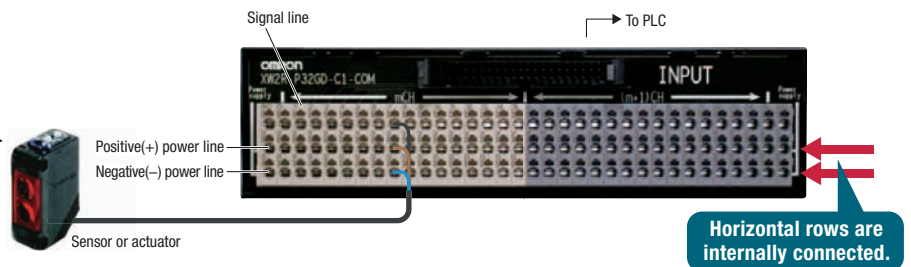
XW2R-P□□GD-□□-COM



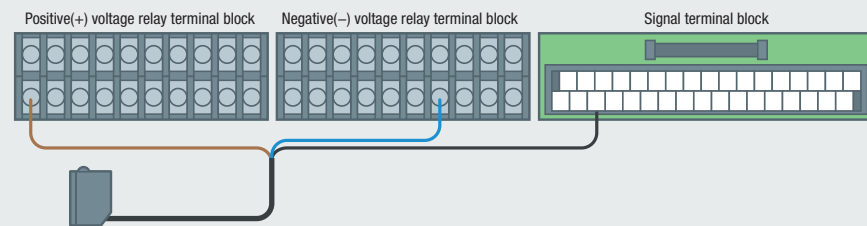
XW2R-P□□GD-□□-COM

- The Units for inputs and outputs are different colors for easy recognition.
- Units available for OMRON, Mitsubishi, and Keyence PLCs.
- A wiring pattern that is specialized for PLCs reduces work in checking signal layouts.
- PLC addresses are provided on the terminal blocks.
- Connector pins not used for PLCs were eliminated to minimize the number of pins and thereby reduce the size.

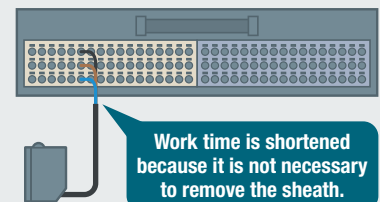
The signal, positive(+) voltage, and negative(-) voltage lines can be wired together to save space and work.



### Are You Wasting Time Removing Sheaths from Sensor Cables?



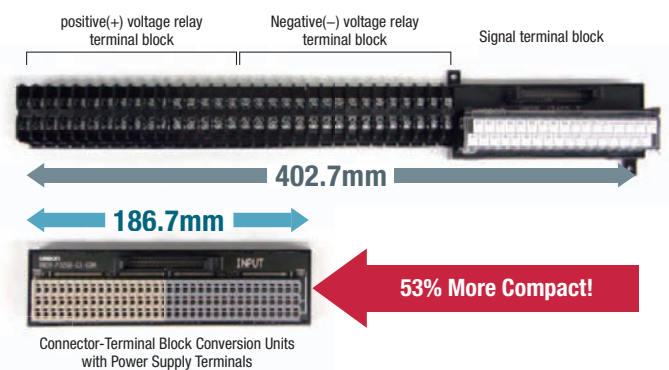
### Using a Conversion Unit with Power Supply Terminals



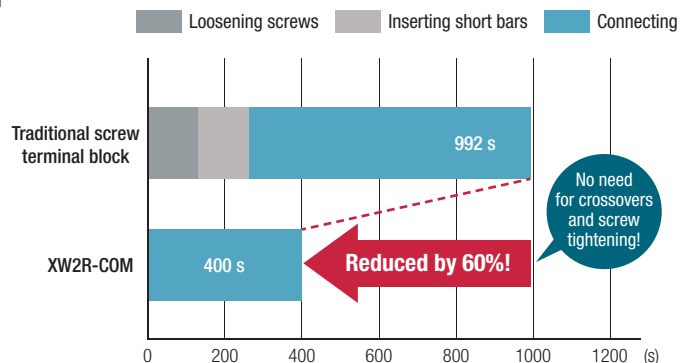
Work time is shortened because it is not necessary to remove the sheath.

## Footprint Reduced by 53%

The Conversion Unit is 53% more compact than a configuration of relay terminal blocks and a signal terminal block.



## Wiring Work Reduced by 60%



\*Results of OMRON comparison for Unit with 32 push-in spring connections.



# Excellent Extremely Easy to Connect



Ideal for connecting to PLCs from various companies.

Type      Wiring method

Units for PLCs      Push-in spring      Phillips screws      Slotted screws (rise-up)

## Connector-Terminal Block Conversion Units for PLCs

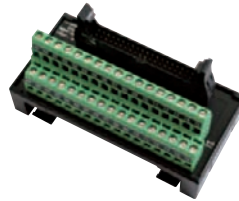
XW2R-□□□GD-□□



XW2R-P□□GD-□□



XW2R-J□□GD-□□



XW2R-E34GD-□□

**We recommend a common terminal block.**

Details: Page 6

- Units available for OMRON, Mitsubishi, and Keyence PLCs.
- A wiring pattern that is specialized for PLCs reduces work in checking signal layouts.
- Terminal block signal labels give the PLC addresses.
- Connector pins not used for PLCs were eliminated to minimize the number of pins and therefore the size.

### Terminal Block Signal Labels Give the PLC addresses

Unit for OMRON PLC	<table border="1"> <tr> <td>NC</td><td>00</td><td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td> </tr> <tr> <td>COM</td><td>00</td><td>01</td><td>02</td><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td> </tr> </table>	NC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	COM	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																																																							
NC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																																																																										
COM	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15																																																																										
Unit for Mitsubishi PLC	<table border="1"> <tr> <td>1</td><td>0</td><td>1</td><td>1</td><td>2</td><td>1</td><td>3</td><td>1</td><td>4</td><td>1</td><td>5</td><td>1</td><td>6</td><td>1</td><td>7</td><td>1</td><td>8</td><td>1</td><td>9</td><td>1</td><td>A</td><td>1</td><td>B</td><td>1</td><td>C</td><td>1</td><td>D</td><td>1</td><td>E</td><td>1</td><td>F</td><td>COM</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>2</td><td>0</td><td>3</td><td>0</td><td>4</td><td>0</td><td>5</td><td>0</td><td>6</td><td>0</td><td>7</td><td>0</td><td>8</td><td>0</td><td>9</td><td>0</td><td>A</td><td>0</td><td>B</td><td>0</td><td>C</td><td>0</td><td>D</td><td>0</td><td>E</td><td>0</td><td>F</td><td>NC</td> </tr> </table>	1	0	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	9	1	A	1	B	1	C	1	D	1	E	1	F	COM	0	0	0	1	0	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9	0	A	0	B	0	C	0	D	0	E	0	F	NC																								
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Unit for Keyence PLC	<table border="1"> <tr> <td>1</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td><td>2</td><td>1</td><td>0</td><td>3</td><td>1</td><td>0</td><td>4</td><td>1</td><td>0</td><td>5</td><td>1</td><td>0</td><td>6</td><td>1</td><td>0</td><td>7</td><td>1</td><td>0</td><td>8</td><td>1</td><td>0</td><td>9</td><td>1</td><td>0</td><td>1</td><td>1</td><td>0</td><td>1</td><td>2</td><td>0</td><td>1</td><td>3</td><td>0</td><td>1</td><td>4</td><td>1</td><td>5</td><td>COM</td> </tr> <tr> <td>0</td><td>0</td><td>0</td><td>1</td><td>0</td><td>0</td><td>2</td><td>0</td><td>0</td><td>3</td><td>0</td><td>0</td><td>4</td><td>0</td><td>0</td><td>5</td><td>0</td><td>0</td><td>6</td><td>0</td><td>0</td><td>7</td><td>0</td><td>0</td><td>8</td><td>0</td><td>0</td><td>9</td><td>0</td><td>1</td><td>0</td><td>1</td><td>1</td><td>0</td><td>1</td><td>2</td><td>0</td><td>1</td><td>3</td><td>0</td><td>1</td><td>4</td><td>1</td><td>5</td><td>COM</td> </tr> </table>	1	0	1	0	1	0	2	1	0	3	1	0	4	1	0	5	1	0	6	1	0	7	1	0	8	1	0	9	1	0	1	1	0	1	2	0	1	3	0	1	4	1	5	COM	0	0	0	1	0	0	2	0	0	3	0	0	4	0	0	5	0	0	6	0	0	7	0	0	8	0	0	9	0	1	0	1	1	0	1	2	0	1	3	0	1	4	1	5	COM
1	0	1	0	1	0	2	1	0	3	1	0	4	1	0	5	1	0	6	1	0	7	1	0	8	1	0	9	1	0	1	1	0	1	2	0	1	3	0	1	4	1	5	COM																																															
0	0	0	1	0	0	2	0	0	3	0	0	4	0	0	5	0	0	6	0	0	7	0	0	8	0	0	9	0	1	0	1	1	0	1	2	0	1	3	0	1	4	1	5	COM																																														

# Universal Outstanding Adaptability



Just one series for easy selection with high versatility to handle various applications.

Type      Wiring method      Connector

Units for General-purpose Devices      Push-in spring      Phillips screws      Slotted screws (rise-up)      MIL connector      FCN connector

## Connector-Terminal Block Conversion Units for General-purpose Devices

XW2R-□□□□D-T



XW2R-P□□□D-T



XW2R-J□□□D-T



XW2R-E□□□D-T

- Wire Connectors and Terminal Blocks 1:1
- Applicable with PLCs from any manufacturer.
- Models available with 20, 34, 40, 50, and 60 poles.



# Common Terminal Block

Achieve downsizing and reduce work by push-in spring connector.

Type

Units for General-purpose Devices

Wiring method

Push-in spring

## Common Terminal Block

XW2R-P40□D-COM



For Positive(+) Voltages  
XW2R-P40PD-COM



For Negative(-) Voltages  
XW2R-P40MD-COM

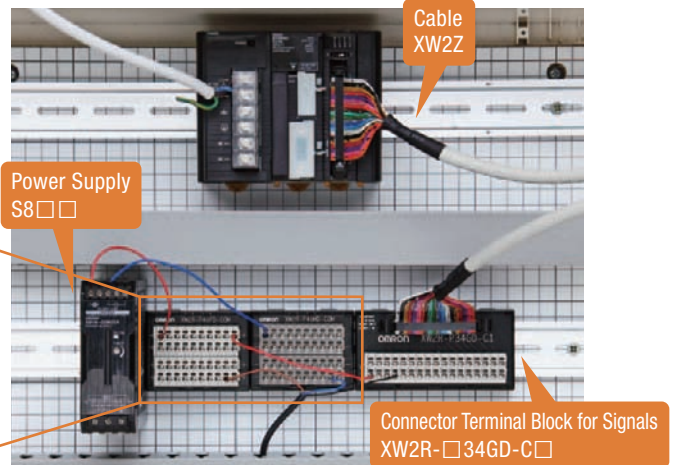
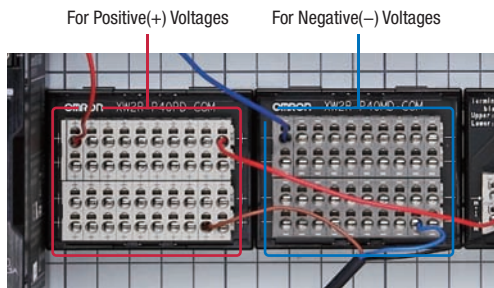


Positive(+) and Negative(-) Connections  
XW2R-P40BD-COM

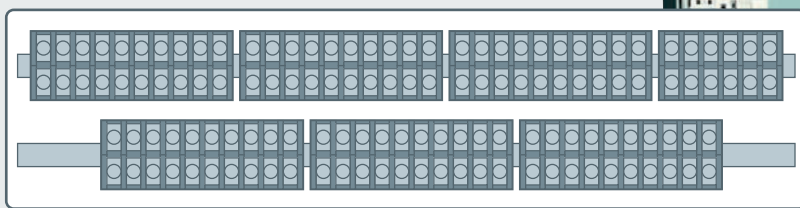
■ Ideal for I/O commons to connect 2-wire devices.

■ Ideal for connecting 3-wire devices.

- Easy connections with less clutter around power supplies.
- Commons are wired on the PCB to eliminate the need to wire crossovers.
- Push-in spring connections.
- Select Units for Positive(+) Voltages, Negative(-) Voltages, or Both.

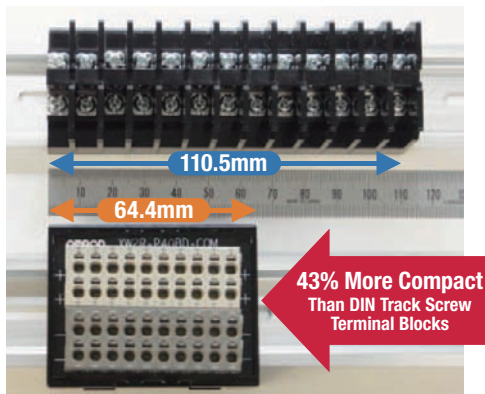


### Are Your Control Panels Buried in DIN Track Screw Terminal Blocks?



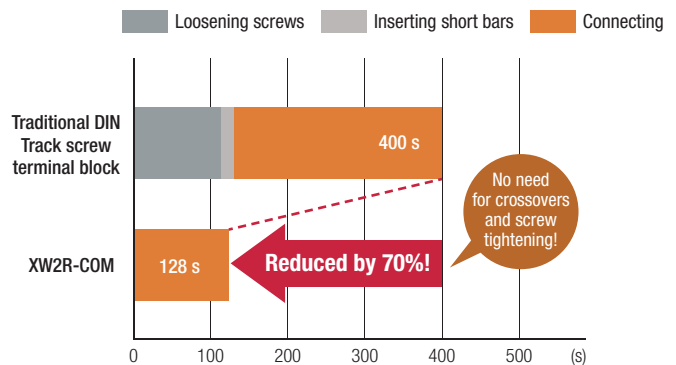
Save space with common terminal blocks.

### Footprint Reduced by 43%



\*Comparison based on number of possible common connections for DIN Track screw terminal blocks with 8.5-mm pitch.

### Wiring Work Reduced by 70%



\*Based on OMRON testing to estimate work for 32 common connections.

# A Wide Range of connectors and Poles to Match Installation Needs

## Units for PLCs

Units with Power Supply Terminals : XW2R-□□□□□-□□-COM

Units without Power Supply Terminals : XW2R-□□□□□-□□

Replace □ with the model codes in the following table.

	Units with Power Supply Terminals					Units without Power Supply Terminals		
	Push-in spring		e-CON		MIL connector	Push-in spring	Phillips screws	Slotted screws (rise up)
Wiring method								
I/O points	16	32	16	32	-	32	32	32
OMRON PLCs	P16GD-C1	P32GD-C1	N16GD-C1	N32GD-C1	-	P34GD-C1	J34GD-C1	E34GD-C1
	-	P32GD-C2	-	N32GD-C2	-	P34GD-C2	J34GD-C2	E34GD-C2
	P16GD-C3	P32GD-C3		-	-	P34GD-C3	J34GD-C3	E34GD-C3
	-	P32GD-C4	-	-	-	P34GD-C4	J34GD-C4	E34GD-C4
Mitsubishi PLCs	-	P32GD-M1	-	-	G32GD-M1	P34GD-M1	J34GD-M1	E34GD-M1
	-	P32GD-M2	-	-		P34GD-M2	J34GD-M2	E34GD-M2
Keyence PLCs	-	P32GD-K1	-	-	-	P34GD-K1	J34GD-K1	-
	-	-	-	-	-	P40GD-K2*	J40GD-K2*	





\*The XW2R-P40GD-K2 and XW2R-J40GD-K2 provide 40 poles each.

## Units for General-purpose Devices

Units with Power Supply Terminals : XW2R-N08GD-COM

Units without Power Supply Terminals : XW2R-□□□□□-T

Replace □ with the model codes in the following table.

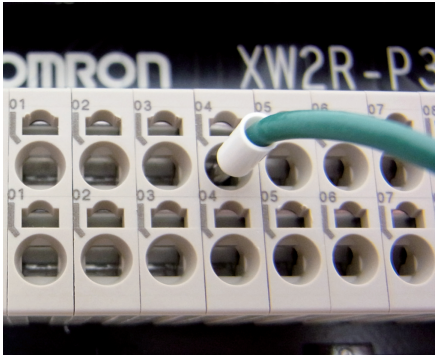
		Units with Power Supply Terminals	Units without Power Supply Terminals		
		e-CON	Push-in spring	Phillips screws	Slotted screws (rise up)
Wiring method					
number of poles		-	20,34,40,50,60	20,34,40,50,60	20,34,40,50,60
Mounted connector	MIL connector	XW2R-N08GD-COM	P20GD	J20GD	E20GD
			P34GD	J34GD	E34GD
			P40GD	J40GD	E40GD
			P50GD	J50GD	E50GD
			P60GD	J60GD	E60GD
	FCN connector	-	P40FD	J40FD	E40FD

# Select the Installation Method and Terminal Wiring Method.

## Select the Wiring Method

### Push-in spring

Just Push in the Wire for a Sure Connection



Connect any of 3 types of wires.

-  Ferrules
-  Solid wires
-  Stranded wires

\*Blade terminals can also be used. Provide insulation.

Flat mark-tubes can be used.

Thick wires can be used (AWG28 to AWG14 (0.08 to 2.0 mm<sup>2</sup>)).

\*AWG24 to AWG14 for ferrules. (However, the outer diameter of the insulation must be 4 mm max.)

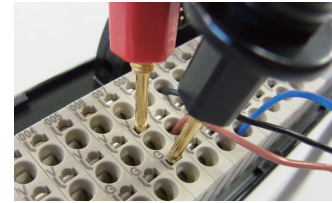
How Many Times is Retightening Necessary?



Wiring, inspections, shipping, maintenance...

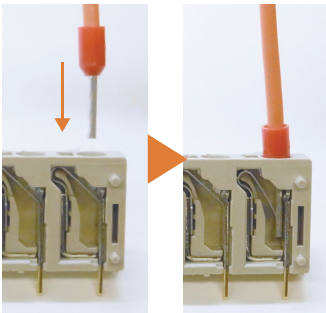
**Retightening is not required for push-in spring connections.**

Testers can be inserted in the release holes.



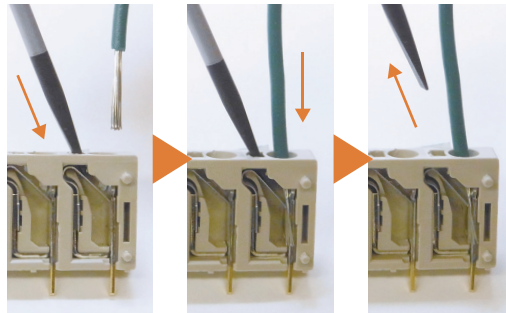
## Easy, Fast Connection and Removal by Just about Anyone

### Ferrules



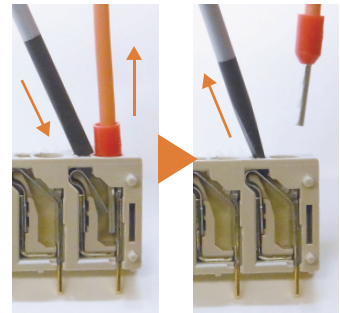
- 1 Just press the ferrule all the way in.
- 2 You're done.

### Naked Wires



- 1 Insert a tool into the release hole.
- 2 Insert the wire while the tool is inserted.
- 3 Remove the tool, and you're done.

### Removal



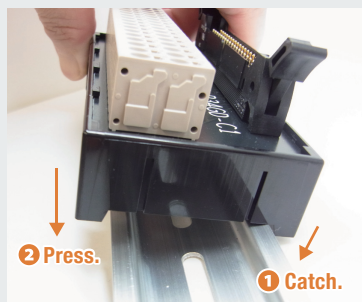
- 1 Insert a tool into the release hole and pull out the wire.
- 2 Remove the tool.

## Select the Installation Method

### Units That Mount to DIN Track

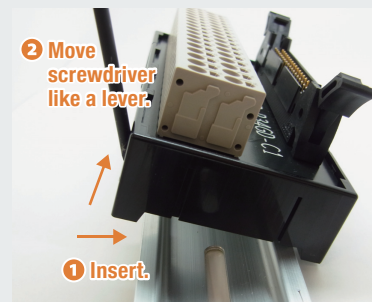
Mounting and Removal are Fast and Easy with DIN Track

### Mounting



- 1 Catch the Terminal Block on the DIN Track.
- 2 Press down on the Terminal Block to mount it.

### Removal



- 1 Insert a flat-blade screwdriver into the DIN Track lock.
- 2 Move the screwdriver like a lever to free the lock.

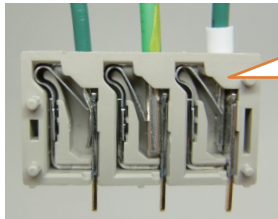


# A Wealth of OMRON Connector Variations

## Tensile Strength Meets IEC Standard

(IEC60947-7-1 Standard)

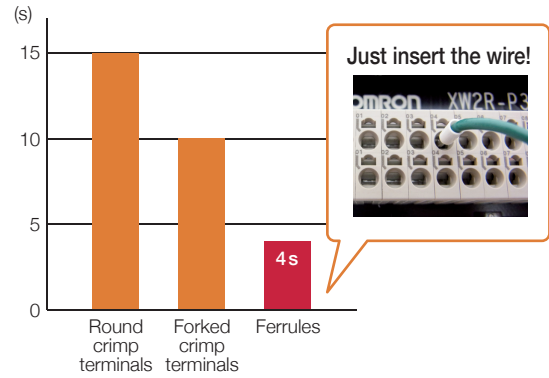
Actual value of tensile strength is equivalent to screw connections.



IEC standard (cable diameter)	Screwless connection	Screw connection
20 N min. (AWG20)	<b>125 N</b>	112 N

\*The values for screwless and screw connections are actual values measured by OMRON for the XW2R.

## Greatly Reduce Connection Work!



### Phillips screws

### Slotted screws (rise-up)

Traditional Screw Terminal Blocks Are Also Available



(Phillips screws)

- Terminal blocks are shipped with the screws open for immediate connection.
- The cover can be locked open for better work efficiency.
- Both round and forked crimp terminals can be used, and screws will not fall out.

### e-CON

Reduce Wiring Mistakes!



- Standard connectors for sensor inputs that mate with e-CON connectors from other manufacturers.
- Easy to connect and ideal for standardization.

Different Models for Different Installation Methods

**XW2R-□□□□□-□**

The following codes are used for this □ in the model number.

- D: For DIN Track
- V: Vertical screw mounting
- Blank: Horizontal screw mounting

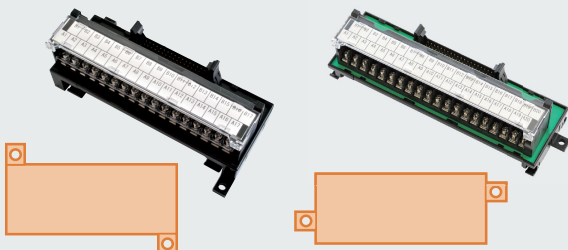
### Vertical Screw Mounting

### Horizontal Screw Mounting

Select the Best Type for Actual Case of Use

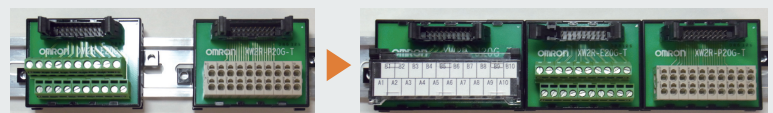
Vertical screw mounting

Horizontal screw mounting



### All Models Mount to DIN Track

- The ribs for screw mounting are positioned within the DIN Track so that they do not interfere with DIN Track mounting parts or End Plates. Even when connecting Horizontal Mounting Units to each other, the ribs do not interfere so there is no gap between the Units.



# Cables for Connector-Terminal Block Conversion Units

## Shielded Cables Model numbers (common portion) : XW2Z-□□□□

Replace □ with the model codes in the following table.

Connector	Connector	Cable length										
		0.25m	0.5m	1m	1.5m	2m	3m	5m	7m	10m	15m	20m
FCN connector, 24 poles	MIL connector, 20 poles	-	050A	100A	150A	200A	300A	500A	700A	010A	15MA	20MA
FCN connector, 40 poles	MIL connector, 20 poles ×2*	-	-	100D	150D	200D	300D	500D	-	010D	15MD	20MD
FCN connector, 40 poles	MIL connector, 20 poles ×2*	-	-	100L	150L	200L	300L	500L	-	010L	15ML	20ML
FCN connector, 40 poles	MIL connector, 40 poles	-	050B	100B	150B	200B	300B	500B	700B	010B	15MB	20MB
MIL connector, 14 poles	MIL connector, 14 poles	-	050AA	100AA	-	200AA	-	500AA	-	010AA	-	-
MIL connector, 20 poles	MIL connector, 20 poles	-	C50X	100X	-	200X	300X	500X	-	010X	-	-
MIL connector, 20 poles	Loose wires with crimp terminals, 20 poles	-	-	100F	150F	200F	300F	500F	-	010F	15MF	20MF
MIL connector, 40 poles	MIL connector, 20 poles ×2	-	-	100N	150N	200N	300N	500N	-	010N	15MN	20MN
MIL connector, 34 poles	MIL connector, 34 poles	-	050EE	100EE	150EE	200EE	300EE	500EE	-	-	-	-
MIL connector, 40 poles	MIL connector, 40 poles	C25K	C50K	100K	150K	200K	300K	500K	-	010K	-	-

\*The wiring is different. Refer to page 55 for details.

## Unshielded Cables Model numbers (common portion) : XW2Z-□□□□□□-L□□

Replace □ with the model codes in the following table.

Connector	Connector	Cable length										
		0.3m	0.5m	0.75m	1m	1.5m	2m	3m	4m	5m	7m	10m
FCN connector, 24 poles	MIL connector, 20 poles	-	0050AD-L	-	0100AD-L	-	0200AD-L	0300AD-L	-	-	-	-
FCN connector, 40 poles	MIL connector, 20 poles ×2*	-	-	-	0100BH-L01	0150BH-L01	0200BH-L01	0300BH-L01	0400BH-L01	0500BH-L01	-	-
FCN connector, 40 poles	MIL connector, 20 poles ×2*	-	-	-	0100BH-L02	0150BH-L02	0200BH-L02	0300BH-L02	0400BH-L02	0500BH-L02	-	-
FCN connector, 40 poles	MIL connector, 40 poles	-	0050BF-L	-	0100BF-L	0150BF-L	0200BF-L	0300BF-L	-	0500BF-L	0700BF-L	1000BF-L
FCN connector, 56 poles	MIL connector, 20 poles ×3*	-	-	-	-	0150CJ-L01	0200CJ-L01	0300CJ-L01	-	-	-	-
FCN connector, 56 poles	MIL connector, 20 poles ×3*	-	-	-	-	0150CJ-L02	0200CJ-L02	0300CJ-L02	-	-	-	-
FCN connector, 56 poles	MIL connector, 40 poles + 20 poles	-	-	-	-	0150CK-L01 0150CK-L02	0200CK-L01 0200CK-L02	-	-	-	-	-
FCN connector, 56 poles	MIL connector, 60 poles	-	-	-	0100CG-L	-	0200CG-L	0300CG-L	-	-	-	-
MIL connector, 20 poles	MIL connector, 20 poles	-	0050DD-L	-	0100DD-L	-	0200DD-L	-	-	-	-	-
MIL connector, 34 poles	MIL connector, 34 poles	-	0050EE-L	-	0100EE-L	0150EE-L	0200EE-L	0300EE-L	-	0500EE-L	0700EE-L	1000EE-L
MIL connector, 40 poles	MIL connector, 20 poles ×2*	-	-	0075FH-L01	0100FH-L01	-	0200FH-L01	0300FH-L01	-	0500FH-L01	-	-
MIL connector, 40 poles	MIL connector, 20 poles ×2*	-	-	0075FH-L02	0100FH-L02	-	0200FH-L02	0300FH-L02	-	0500FH-L02	-	-
MIL connector, 40 poles	MIL connector, 40 poles	0030FF-L	0050FF-L	-	0100FF-L	0150FF-L	0200FF-L	0300FF-L	-	0500FF-L	0700FF-L	1000FF-L

\*The wiring is different. Refer to page 60 for details.

# XW2R

## Connector-Terminal Block Conversion Units Designed Specifically to Connect PLCs

- Wiring patterns that are specifically designed for PLCs reduce the work required to check signal layout.
- Terminal block signal labels give the PLC addresses.
- Models available with Phillips screw, slotted screw, push-in, or e-CON connections.
- Models available with and without power supply terminals.
- Mounting to DIN Track is possible.



Item	PLC Maker	OMRON	Mitsubishi	Keyence
With power supply terminals	Appearance			
	Model	XW2R-□□□GD-C□-COM	XW2R-□32GD-M□-COM	XW2R-P32GD-K1-COM
	Page	Page 12	Page 23	Page 32
Without power supply terminals	Appearance			
	Model	XW2R-□□34GD-C□	XW2R-□□34GD-M□	XW2R-□□□GD-K□
	Page	Page 19	Page 28	Page 34

### Options (Order Separately)

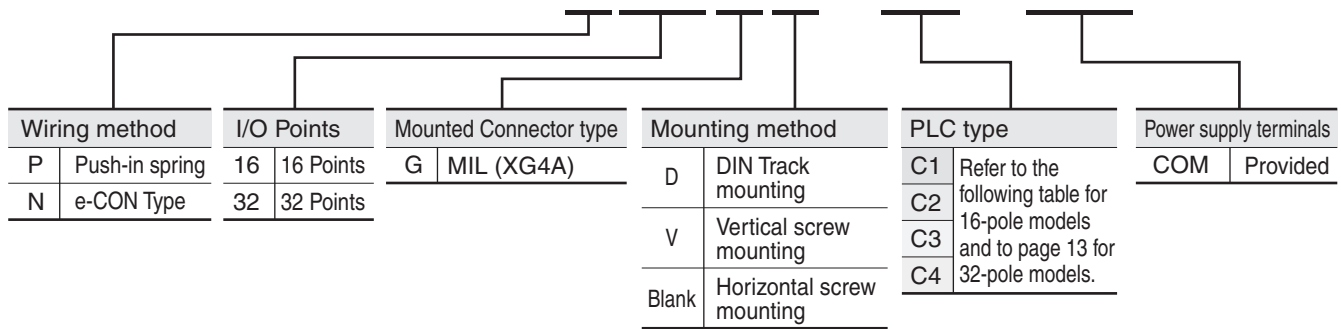
#### Connecting Cables for Connector-Terminal Block Conversion Units

Refer to page 49.

# Models for Connection to OMRON PLCs with power supply terminals

## Model List

XW2R - □ □ □ G □ - C □ - COM



## Models for OMRON PLCs

### Models with 16 Poles

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs	Connecting cables *
Input	32	CJ1W-ID231	XW2R-P16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
		CS1W-ID231	XW2R-N16GD-C1-COM: 2 pcs	
Input	64	CJ1W-ID261	XW2R-P16GD-C1-COM: 4 pcs	XW2Z-□□□D: 2 Cables
		CS1W-ID261	XW2R-N16GD-C1-COM: 4 pcs	
I/O	16	NX-MD6121-6 (inputs)	XW2R-P16GD-C1-COM: 1 pcs	XW2Z-□□□A: 1 Cable
		CJ1W-MD231 (inputs)	XW2R-N16GD-C1-COM: 1 pcs	
	32	CJ1W-MD261 (inputs)	XW2R-P16GD-C1-COM: 2 pcs	XW2Z-□□□D: 1 Cable
		CS1W-MD261 (inputs)		
CS1W-MD262 (inputs)				
Input	32	CJ1W-ID232	XW2R-P16GD-C1-COM: 2 pcs	XW2Z-□□□N: 1 Cable
		CJ1W-ID233		
I/O	32	CJ1W-MD263 (inputs)	XW2R-N16GD-C1-COM: 2 pcs	
		CJ1W-MD563 (inputs)		
Input	64	CJ1W-ID262	XW2R-P16GD-C1-COM: 4 pcs	XW2Z-□□□N: 2 Cables
Output	32	CJ1W-OD231	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□L: 1 Cable
		CS1W-OD231		
		CS1W-OD232		
	64	CJ1W-OD232	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□N: 1 Cables
		CJ1W-OD233		
		CJ1W-OD234		
64	CJ1W-OD261	XW2R-P16GD-C3-COM: 4 pcs	XW2Z-□□□L: 2 Cables	
	CS1W-OD261			
	CJ1W-OD262			
64	CJ1W-OD262	XW2R-P16GD-C3-COM: 4 pcs	XW2Z-□□□N: 2 Cables	
	CJ1W-OD263			
	CJ1W-OD263			
I/O	16	NX-MD6121-6 (outputs)	XW2R-P16GD-C3-COM: 1 pcs	XW2Z-□□□A: 1 Cable
		CJ1W-MD231 (outputs)	XW2R-N16GD-C3-COM: 1 pcs	XW2Z-□□□A: 1 Cable
	32	CJ1W-MD261 (outputs)	XW2R-P16GD-C3-COM: 2 pcs	XW2Z-□□□L: 1 Cable
		CS1W-MD261 (outputs)		
		CS1W-MD262 (outputs)		
32	CS1W-MD561 (outputs)			

\* □□□ is replaced by the cable length. Refer to page 49.

**Note:** Connection is not possible to all OMRON PLC Units.

This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.



# Models for Connection to OMRON PLCs with power supply terminals

## Models for OMRON PLCs

### Models with 32 Poles

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs	Connecting cables *
Input	32	NX-ID6142-5	XW2R-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		NX-ID6142-6	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CJ1W-ID231	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-ID231	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
	64	CJ1W-ID261	XW2R-P32GD-C1-COM: 2 pcs XW2R-N32GD-C1-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
I/O	32	CJ1W-MD261 (inputs)	XW2R-P32GD-C1-COM: 1 pcs XW2R-N32GD-C1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD261 (inputs)		
		CS1W-MD262 (inputs)		
		CS1W-MD561 (inputs)		
Input	32	CJ1W-ID232	XW2R-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-ID233	XW2R-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
I/O	32	CJ1W-MD263 (inputs)	XW2R-P32GD-C2-COM: 1 pcs XW2R-N32GD-C2-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-MD563 (inputs)		
Output	32	NX-OD6121-5	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		NX-OD6256-5		
		NX-OD6121-6		
		CJ1W-OD231		
	64	CS1W-OD231	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-OD232		
		CJ1W-OD261		
		CS1W-OD261		
I/O	32	CS1W-OD262	XW2R-P32GD-C3-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
		CS1W-OD262		
		CJ1W-MD261 (outputs)		
		CS1W-MD261 (outputs)		
Output	32	CS1W-MD262 (outputs)	XW2R-P32GD-C3-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable
		CS1W-MD561 (outputs)		
		CJ1W-OD232		
		CJ1W-OD233		
Output	32	CJ1W-OD234	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-OD262	XW2R-P32GD-C4-COM: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
I/O	32	CJ1W-OD263		
		CJ1W-MD263 (outputs)		
I/O	32	CJ1W-MD563 (outputs)	XW2R-P32GD-C4-COM: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable
		CJ1W-MD563 (outputs)		

\* □□□□ is replaced by the cable length.

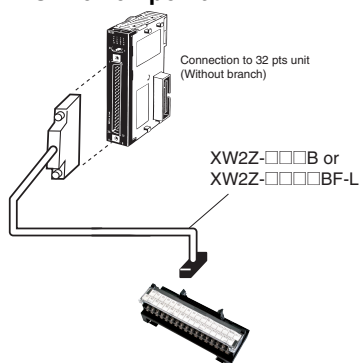
**Note:** Connection is not possible to all OMRON PLC Units.

This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

## Connection Examples

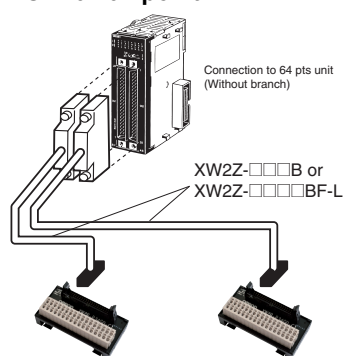
### 32-point Input Unit or Output Unit

CJ1W-ID231 32-point  
CJ1W-OD231 32-point



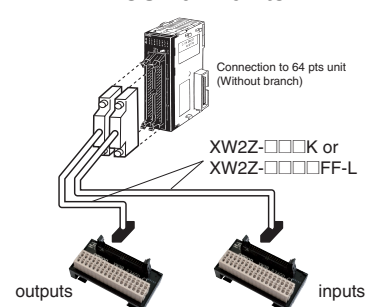
### 64-point Input Unit or Output Unit

CJ1W-ID261 64-point  
CJ1W-OD261 64-point



### 64-point I/O Unit

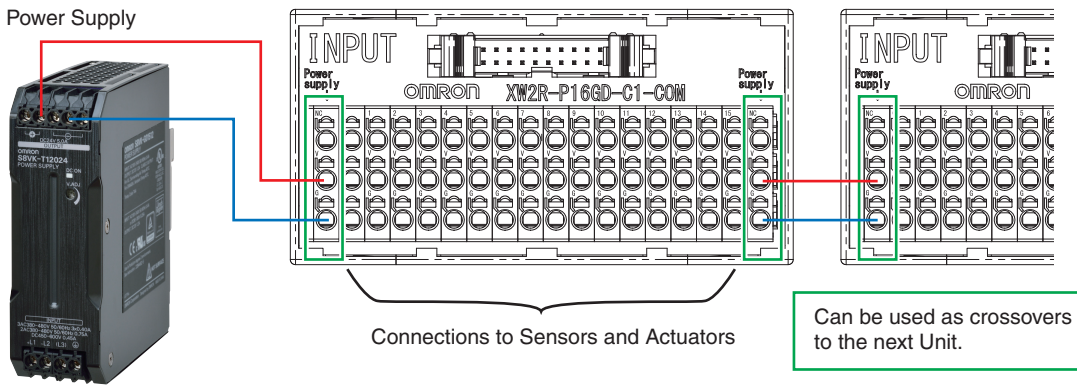
CJ1W-MD563 IN 32 Points,  
OUT 32 Points



# XW2R

## Models for Connection to OMRON PLCs with power supply terminals

### Application Example



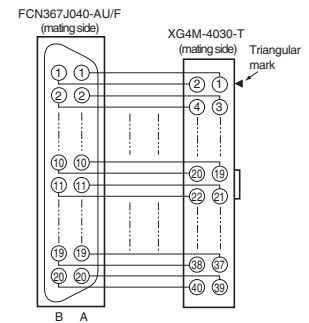
### PLC Connecting Cables

#### XW2Z-□□□B, XW2Z-□□□BF-L

Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		Model	Model
	0.5	XW2Z-050B	XW2Z-0050BF-L
	1	XW2Z-100B	XW2Z-0100BF-L
	1.5	XW2Z-150B	XW2Z-0150BF-L
	2	XW2Z-200B	XW2Z-0200BF-L
	3	XW2Z-300B	XW2Z-0300BF-L
	5	XW2Z-500B	XW2Z-0500BF-L
	7	XW2Z-700B	XW2Z-0700BF-L
	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	---
	20	XW2Z-20MB	---

#### Wiring Diagram



Cable length L (m)

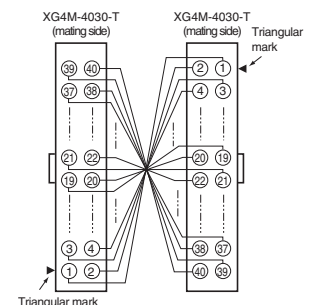


#### XW2Z-□□□K, XW2Z-□□□FF-L

Connectors: One 40-pin Connector to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		Model	Model
	0.25	XW2Z-C25K	---
	0.5	XW2Z-C50K	XW2Z-0050FF-L
	1	XW2Z-100K	XW2Z-0100FF-L
	1.5	XW2Z-150K	XW2Z-0150FF-L
	2	XW2Z-200K	XW2Z-0200FF-L
	3	XW2Z-300K	XW2Z-0300FF-L
	5	XW2Z-500K	XW2Z-0500FF-L
	7	---	XW2Z-0700FF-L
10	XW2Z-010K	XW2Z-1000FF-L	

#### Wiring Diagram



Note: Wire the connector terminals 1:1 so that the connector terminal numbers coincide.


Cable length L (m)



# Models for Connection to OMRON PLCs with power supply terminals

Push-in spring

## Ordering Information

Appearance *1	I/O Points	Input/Output	Model *2	Dimension A (mm)
	16	Input	XW2R-P16GD-C1-COM	98.5
		Output	XW2R-P16GD-C3-COM	
	32	Input	XW2R-P32GD-C1-COM	186.7
			XW2R-P32GD-C2-COM	
		Output	XW2R-P32GD-C3-COM	
			XW2R-P32GD-C4-COM	

\*1 Input models (XW2R-P□□GD-C1/C2-COM) are black and output models (XW2R-P□□GD-C3/C4-COM) are green.

\*2 Only DIN Track mounting models are described here.

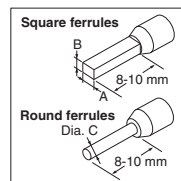
## Ratings and Specifications

Rated current	16 Points: 1A/signal, 4A/common 32 Points: 1A/signal, 8A/common
Rated voltage	24VDC
Insulation resistance	100MΩ min. (at 500VDC)
Dielectric strength	500VAC for 1 ferrulemin (leakage current: 1 mA max.)
Ambient operating temperature	0 to 55°C
Applicable wires	Applicable wire sizes AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)
	Stripped length AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



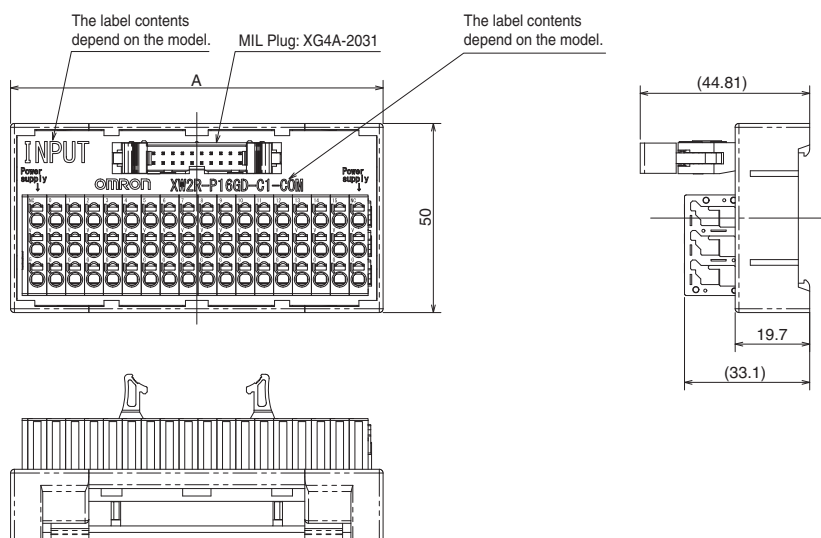
- Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

## Dimensions

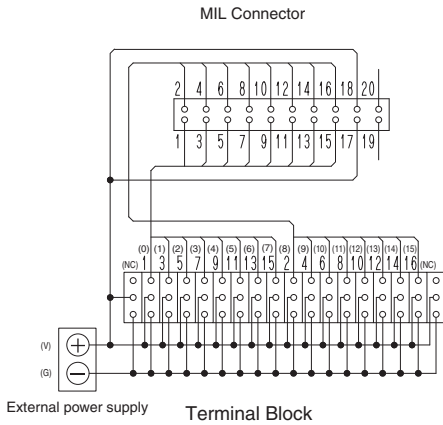
(Unit: mm)



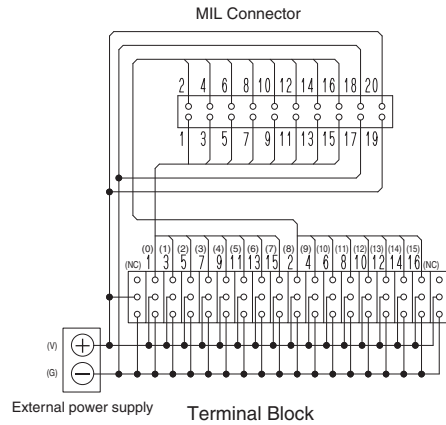
# Models for Connection to OMRON PLCs with power supply terminals

## Wiring Diagram

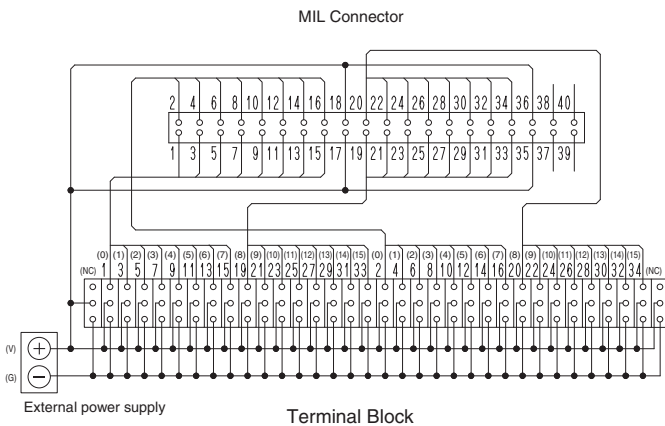
XW2R-P16GD-C1-COM



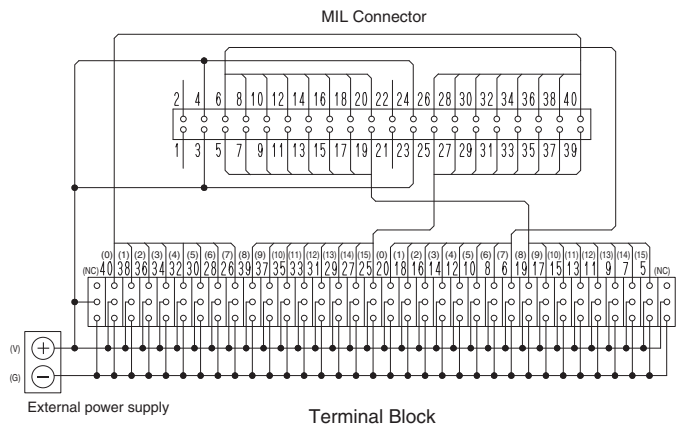
XW2R-P16GD-C3-COM



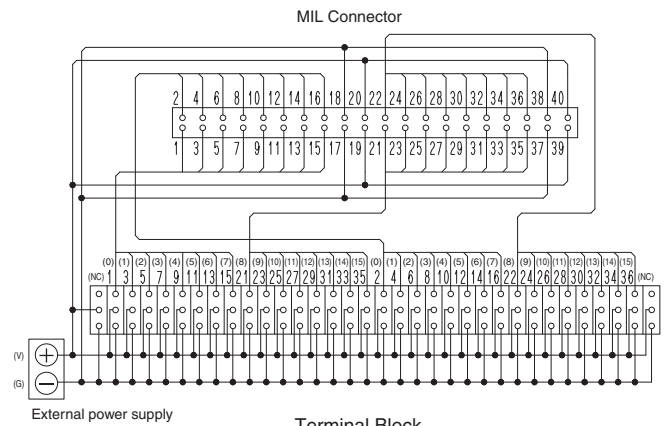
XW2R-P32GD-C1-COM



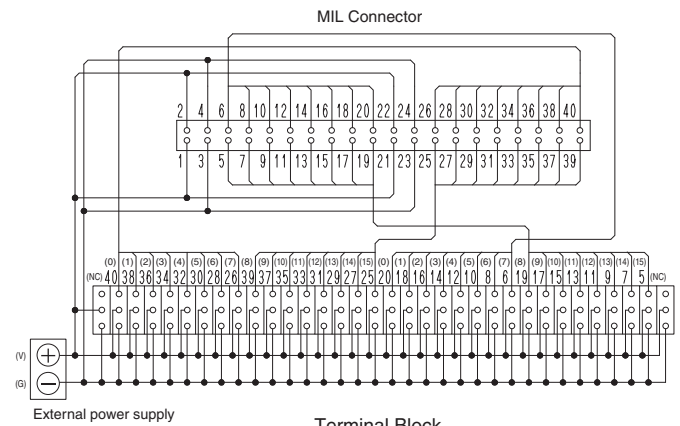
XW2R-P32GD-C2-COM



XW2R-P32GD-C3-COM



XW2R-P32GD-C4-COM



## Label Contents

XW2R-P16GD-C1-COM  
XW2R-P16GD-C3-COM

NC	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	NC
V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

XW2R-P32GD-C1-COM, XW2R-P32GD-C3-COM  
XW2R-P32GD-C2-COM, XW2R-P32GD-C4-COM


NC	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	NC
V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G



# Models for Connection to OMRON PLCs with power supply terminals

e-CON Type

## Ordering Information

Appearance	I/O Points	Input/Output	Model	Dimension A (mm)
	16	Input	XW2R-N16GD-C1-COM	98.5
	32		XW2R-N32GD-C1-COM	186.7
			XW2R-N32GD-C2-COM	

## Ratings and Specifications

<b>Rated current</b>	Power supply terminal block: 4 A/16 poles or 8 A/32 poles Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)
<b>Rated voltage</b>	24VDC
<b>Insulation resistance</b>	100MΩ min. (at 500VDC)
<b>Dielectric strength</b>	500VAC for 1 min (leakage current: 1 mA max.)
<b>Ambient operating temperature</b>	0 to 55°C
<b>Applicable wires</b>	<b>Applicable wire sizes</b>
	<b>Stripped length</b>

AWG 24 to 14 (ferrules)  
AWG 28 to 14 (stranded wires)  
AWG 28 to 16 (solid wires)\*  
(Outer diameter of insulation must be 4 mm max)

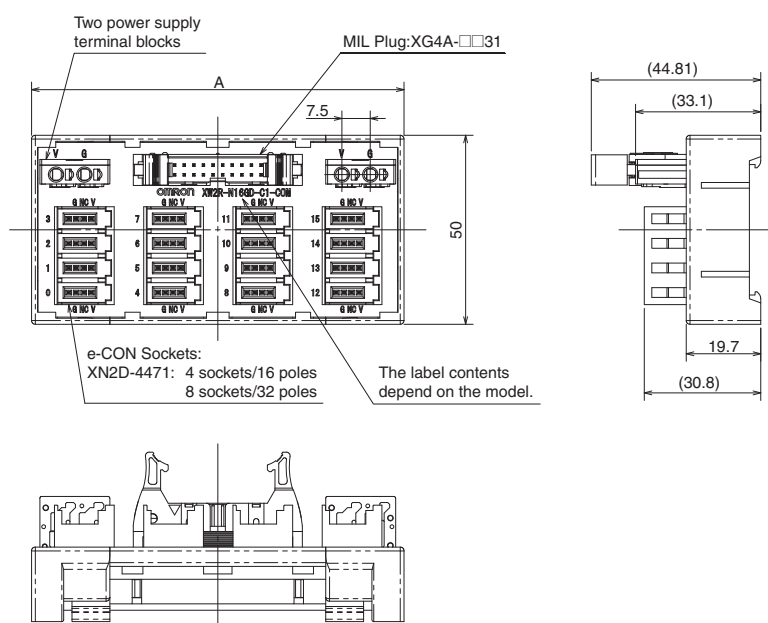
AWG28-16: 8 to 10 mm  
AWG14: 9 to 10 mm

\* This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 37.

Refer to page 37 for the recommended e-CON Connectors.

## Dimensions

(Unit: mm)

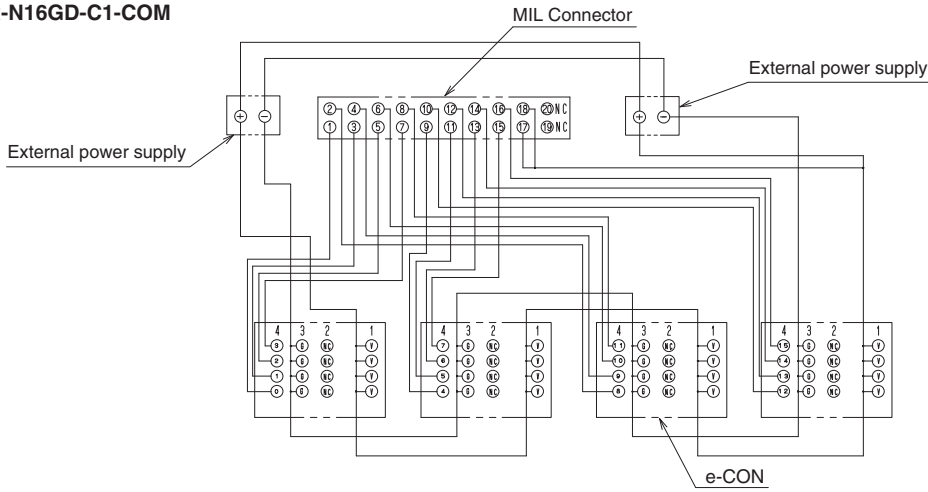


# XW2R

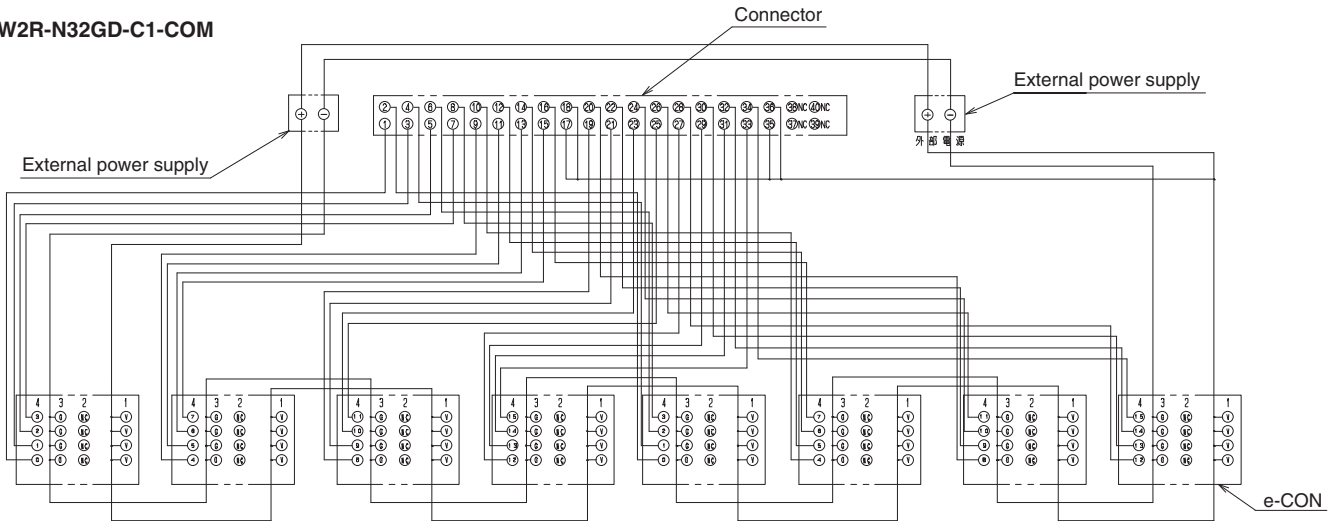
## Models for Connection to OMRON PLCs with power supply terminals

### Wiring Diagram

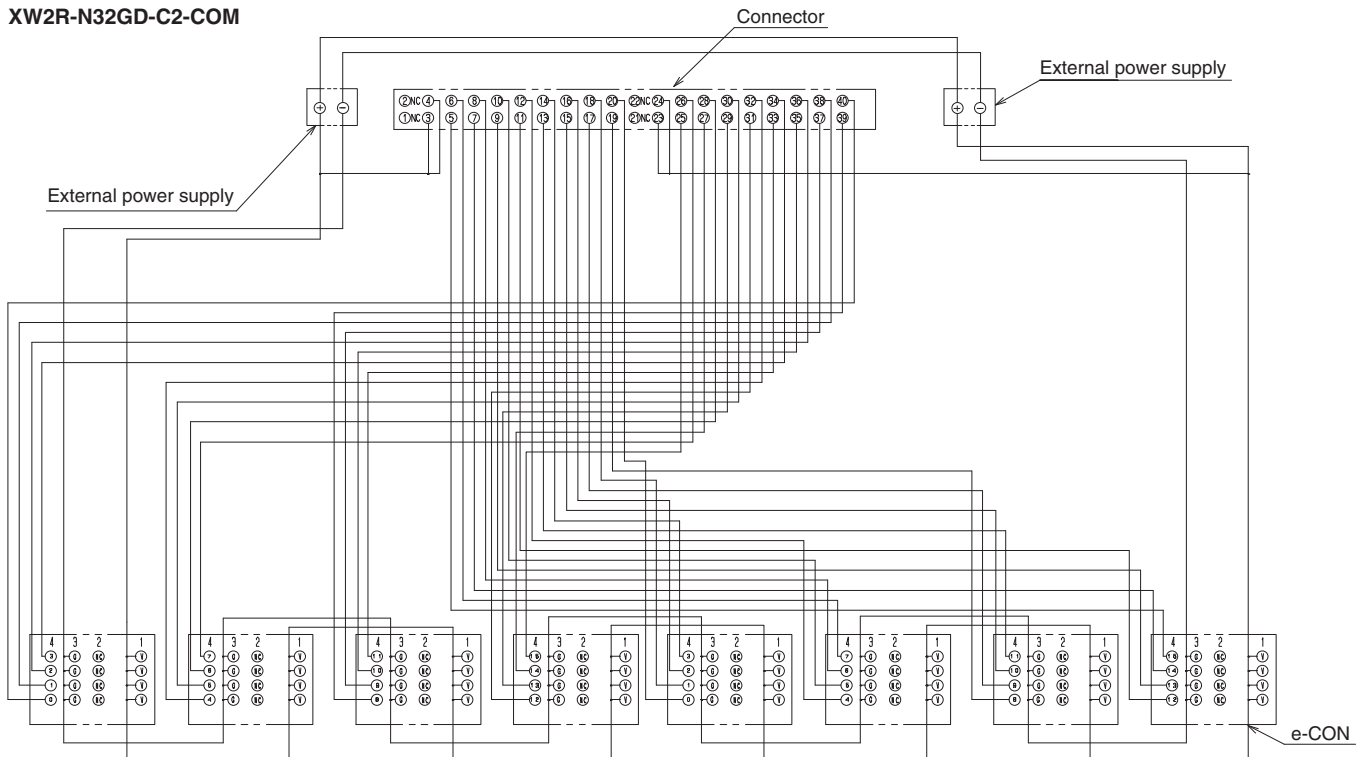
XW2R-N16GD-C1-COM



XW2R-N32GD-C1-COM



XW2R-N32GD-C2-COM



# Models for Connection to OMRON PLCs without power supply terminals

## Model List

**XW2R - □ 34 G □ - C □**

Wiring method		Number of poles		Mounted Connector type		Mounting method		PLC type	
J	Phillips screw	34	34 poles (I/O points: 32 points)	G	MIL (XG4A)	D	DIN Track mounting	C1	Refer to the following table for details.
E	Slotted screw (rise up)			V		Vertical screw mounting		C2	
P	Push-in spring			Blank		Horizontal screw mounting		C3	
				C4					

## Models for OMRON PLCs

I/O	I/O Points	I/O Unit Model	Models that connect to PLCs *1	Connecting cables *2				
Input	32	NX-ID6142-6	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable				
		CJ1W-ID231 CS1W-ID231	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable				
	64	CJ1W-ID261 CS1W-ID261	XW2R-□34GD-C1: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables				
		I/O	32	CJ1W-MD261 (inputs) CS1W-MD261 (inputs) CS1W-MD262 (inputs) CS1W-MD561 (inputs)	XW2R-□34GD-C1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable		
Input	32			NX-ID6142-5 CJ1W-ID232 CJ1W-ID233	XW2R-□34GD-C2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□□FF-L: 1 Cable		
				64	CJ1W-ID262	XW2R-□34GD-C2: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables	
					I/O	32	CJ1W-MD263 (inputs) CJ1W-MD563 (inputs)	XW2R-□34GD-C2: 1 pcs
Output	32	NX-OD6121-6 CJ1W-OD231 CS1W-OD231 CS1W-OD232	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable				
		64	CJ1W-OD261 CS1W-OD261 CS1W-OD262	XW2R-□34GD-C3: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables			
			I/O	32	CJ1W-MD261 (outputs) CS1W-MD261 (outputs) CS1W-MD262 (outputs) CS1W-MD561 (outputs)	XW2R-□34GD-C3: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable	
					Output	32	NX-OD6121-5 NX-OD6256-5 CJ1W-OD232 CJ1W-OD233 CJ1W-OD234	XW2R-□34GD-C4: 1 pcs
	64	CJ1W-OD262 CJ1W-OD263					XW2R-□34GD-C4: 2 pcs	XW2Z-□□□K: 2 Cables, or XW2Z-□□□□FF-L: 2 Cables
		I/O					32	CJ1W-MD263 (outputs) CJ1W-MD563 (outputs)

\*1 Replace the box (□) with the wiring method code (J, E, or P).

\*2 □□□□ is replaced by the cable length. For details, refer to page 14.


**Note:** 1. Connection is not possible to all OMRON PLC Units.

2. There is one common for each 32 points.

# Models for Connection to OMRON PLCs without power supply terminals

Phillips screw

## Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-J34GD-C1
		XW2R-J34GD-C2
		XW2R-J34GD-C3
		XW2R-J34GD-C4

\* Only DIN Track mounting models are described here.

## Ratings and Specifications

Rated current	0.5 A/signal, 4 A/common	
Rated voltage	24VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)
	Stripped length	9 mm
	Tightening	0.5 N·m

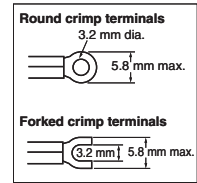
### Details on Crimp Terminals

#### Wiring Terminal Blocks

- Using Crimp Terminals (With a Terminal Block with M3 Screws)

#### Terminal Screw Tightening Torque

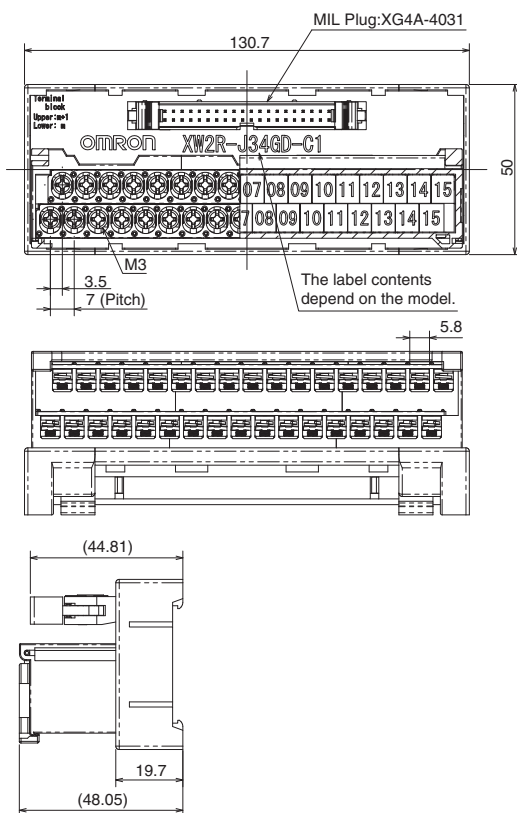
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



Applicable crimp terminals	Applicable wires
Round crimp terminals	1.25-3 AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )
Forked crimp terminals	1.25Y-3 AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )

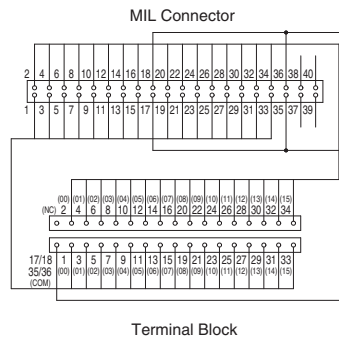
## Dimensions

(Unit: mm)

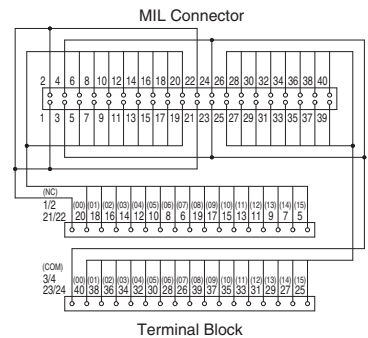


## Wiring Diagram

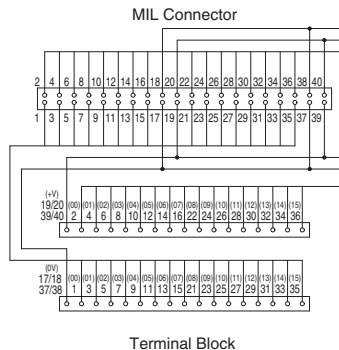
### XW2R-J34GD-C1



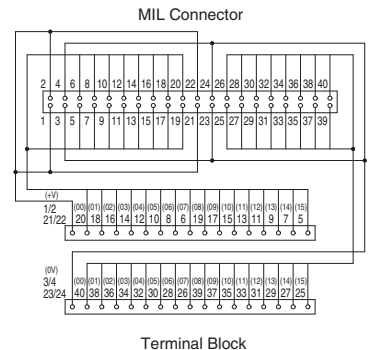
### XW2R-J34GD-C2



### XW2R-J34GD-C3



### XW2R-J34GD-C4



## Label Contents

### XW2R-J34GD-C1, XW2R-J34GD-C2

NC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
COM	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

### XW2R-J34GD-C3, XW2R-J34GD-C4


+V	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
0V	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15



# Models for Connection to OMRON PLCs without power supply terminals

Slotted screw (rise up)

## Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-E34GD-C1
		XW2R-E34GD-C2
		XW2R-E34GD-C3
		XW2R-E34GD-C4

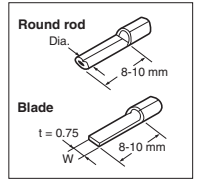
\* Only DIN Track mounting models are described here.

## Ratings and Specifications

Rated current	0.5 A/signal, 4 A/common	
Rated voltage	24VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 22 to 16 (ferrules) AWG 26 to 16 (stranded or solid wires)
	Stripped length	7 mm
	Tightening	0.5 to 0.6 N·m

### Details on Crimp Terminals

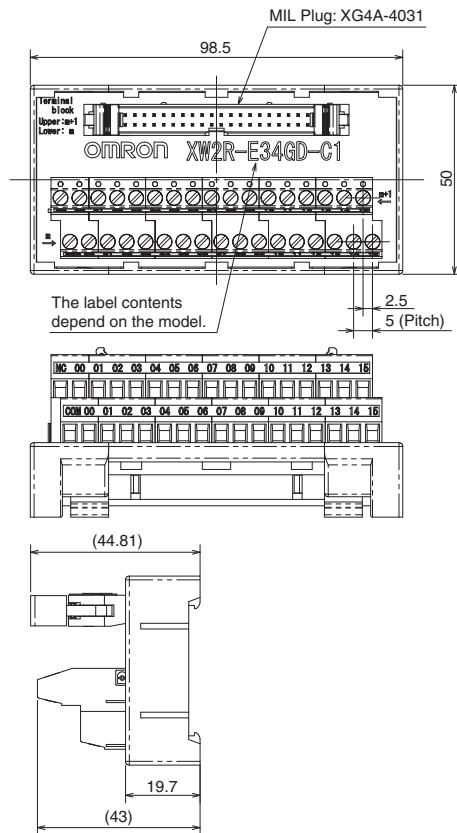
	Applicable crimp terminals	Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm <sup>2</sup> )
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm <sup>2</sup> )
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm <sup>2</sup> )



Note: Round rod and blade crimp terminals are made by Nichifu.

## Dimensions

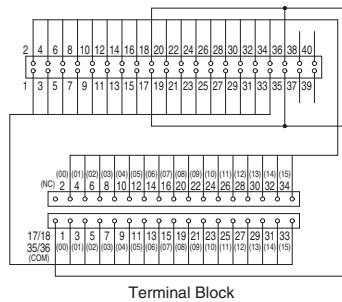
(Unit: mm)



## Wiring Diagram

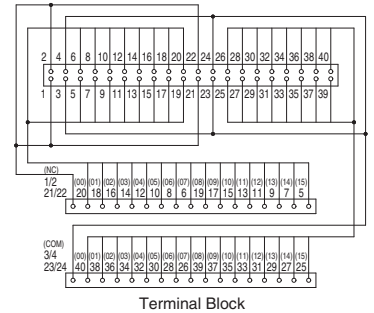
### XW2R-E34GD-C1

MIL Connector



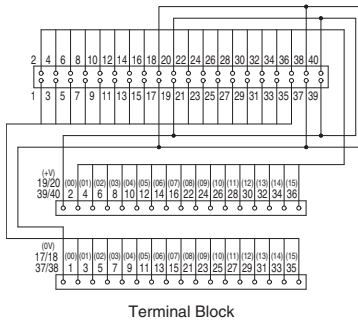
### XW2R-E34GD-C2

MIL Connector



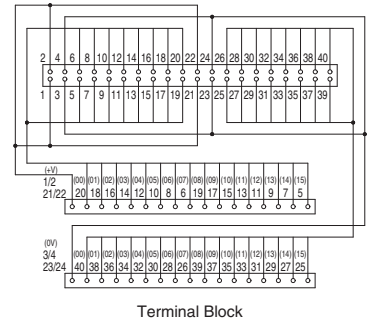
### XW2R-E34GD-C3

MIL Connector

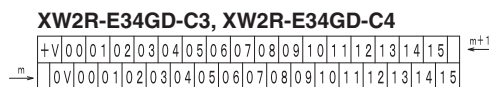
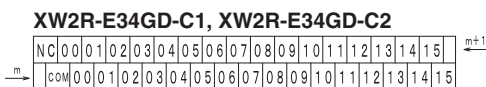


### XW2R-E34GD-C4

MIL Connector




## Label Contents



# Models for Connection to OMRON PLCs without power supply terminals

Push-in spring

## Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-P34GD-C1
		XW2R-P34GD-C2
		XW2R-P34GD-C3
		XW2R-P34GD-C4

\* Only DIN Track mounting models are described here.

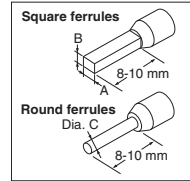
## Ratings and Specifications

Rated current	0.5 A/signal, 4 A/common	
Rated voltage	24VDC	
Insuration resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



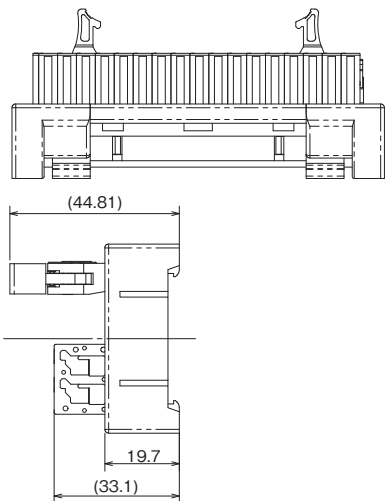
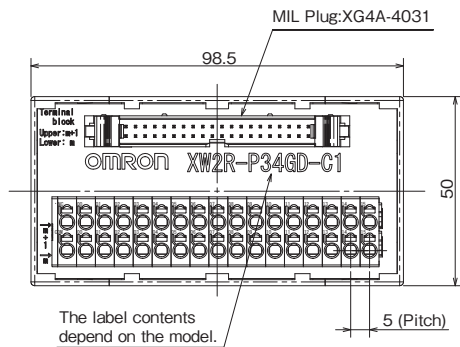
#### Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

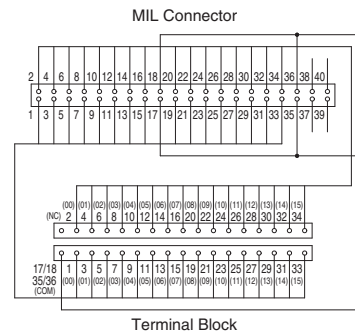
## Dimensions

(Unit: mm)

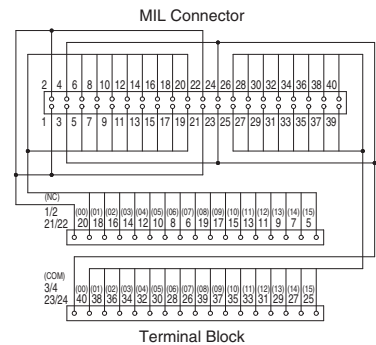


## Wiring Diagram

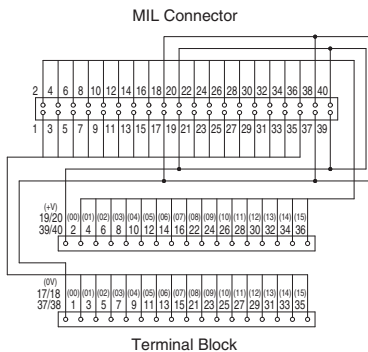
### XW2R-P34GD-C1



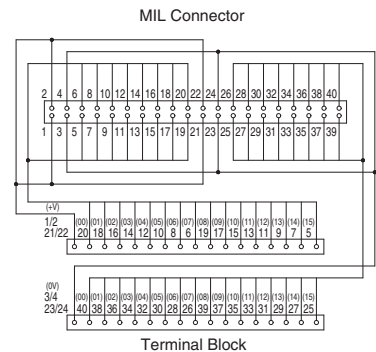
### XW2R-P34GD-C2



### XW2R-P34GD-C3



### XW2R-P34GD-C4



## Label Contents

XW2R-P34GD-C1, XW2R-P34GD-C2

m+1	NC	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
m	COM	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

XW2R-P34GD-C3, XW2R-P34GD-C4

m+1	+V	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
m	0V	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

# Models for Connection to Mitsubishi PLCs with power supply terminals

## Model List

### XW2R - □ 32 GD - M□ - COM

Wiring method		I/O Points		Mounted Connector type		Mounting method		PLC type		Power supply terminals		
P	Push-in spring	32	32 Points	G	MIL (XG4A)	D	DIN Track mounting	M1	Refer to the following table for details.		COM	Provided
G	MIL Connector							M2				

## Models for Connection to Mitsubishi PLCs


PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs	Connecting cables *	
M1	32	LX41C4	XW2R-P32GD-M1-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable	
		QX41/QX41-S1/QX41-S2			
		QX71			
		RX41C4			
		QH42P (Input)			
		QX41Y41P (Input)			
64	64	LX42C4	XW2R-P32GD-M1-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables	
		QX42/QX42-S1			
		QX82/QX82-S1			
		RX42C4			
M2	32	LY41NT1P	XW2R-P32GD-M2-COM: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable	
		QY41P			
		QY71			
		RY41NT2P			
		RY41PT1P			
		QH42P (Output)			
	64	64	QX41Y41P (Output)	XW2R-P32GD-M2-COM: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables
			RH42C4NT2P (Output)		
			LY42NT1P		
			QY42P		
			QY82P		
			RY42NT2P		
RY42PT1P					

\* □□□□ is replaced by the cable length.

**Note:** This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

### XW2Z-□□□B, XW2Z-□□□□BF-L

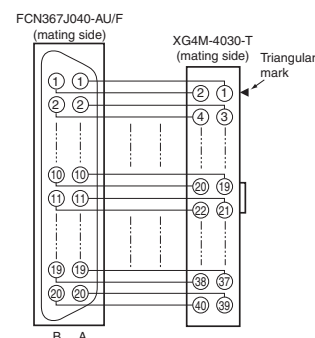
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		Model	Model
	0.5	XW2Z-050B	XW2Z-0050BF-L
	1	XW2Z-100B	XW2Z-0100BF-L
	1.5	XW2Z-150B	XW2Z-0150BF-L
	2	XW2Z-200B	XW2Z-0200BF-L
	3	XW2Z-300B	XW2Z-0300BF-L
	5	XW2Z-500B	XW2Z-0500BF-L
	7	XW2Z-700B	XW2Z-0700BF-L
	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	---
	20	XW2Z-20MB	---

Cable length L (m)



### Wiring Diagram



# Models for Connection to Mitsubishi PLCs with power supply terminals

MIL Connector

## Models for Connection to Mitsubishi PLCs

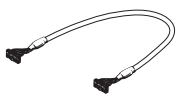
I/O Points	Model	Models that connect to PLCs	Connecting cables*
32	QX41, QX41-S1, QX41-S2, QX71	XW2R-G32GD-M1-COM: 1 pcs	Connection A XW2Z-□□□B: 1 Cable, or XW2Z-□□□□BF-L: 1 Cable Connection B XW2Z-□□□AA: 4 Cables
	QH42P(Input) , QX41Y41P (Input)		
	LX41C4		
64	QX42, QX42-S1, QX82, QX82-S1	XW2R-G32GD-M1-COM: 2 pcs	Connection A XW2Z-□□□B: 2 Cables, or XW2Z-□□□□BF-L: 2 Cables Connection B XW2Z-□□□AA: 8 Cables
	LX42C4		

\* □□□□ is replaced by the cable length.

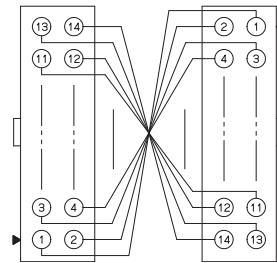
**Note:** Refer to page 23 for information on the XW2Z-□□□B and XW2Z-□□□□BF-L.

This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

### XW2Z-□□□AA One 14-pin MIL Connector to One 14-pin MIL Connector

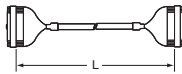
Appearance	Cable length L (m)	With shield
		Model
	0.5	<b>XW2Z-050AA</b>
	1	<b>XW2Z-100AA</b>
	2	<b>XW2Z-200AA</b>
	5	<b>XW2Z-500AA</b>
	10	<b>XW2Z-010AA</b>

#### Wiring Diagram

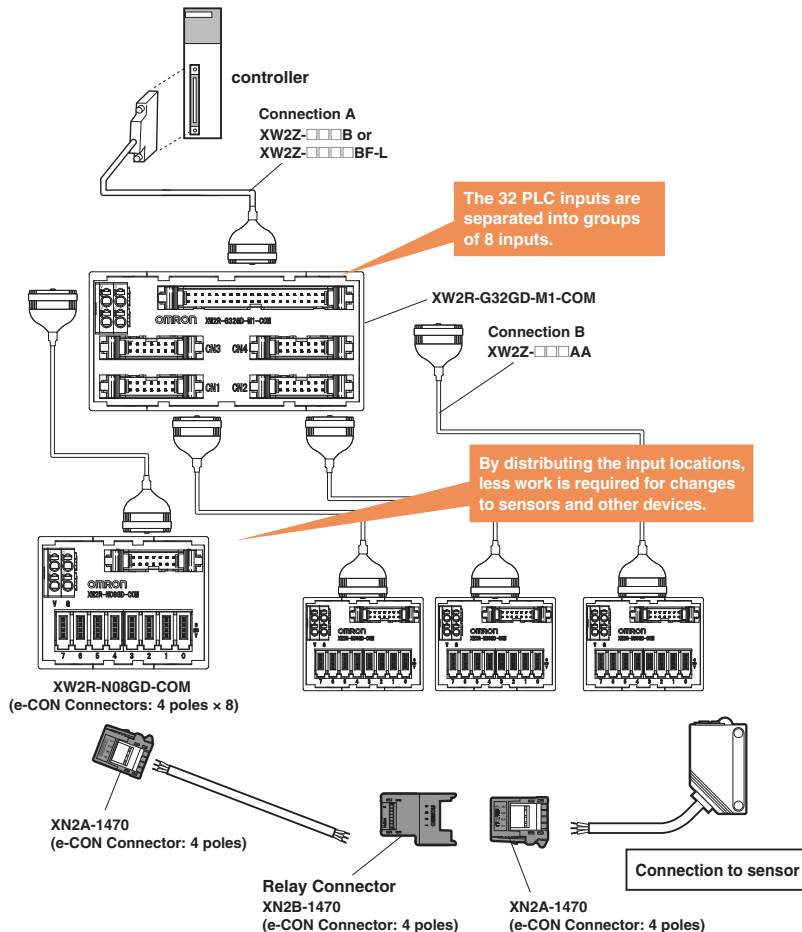


**Note:** Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

Cable length L (m)

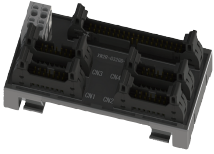


## Connection Examples



# Models for Connection to Mitsubishi PLCs with power supply terminals

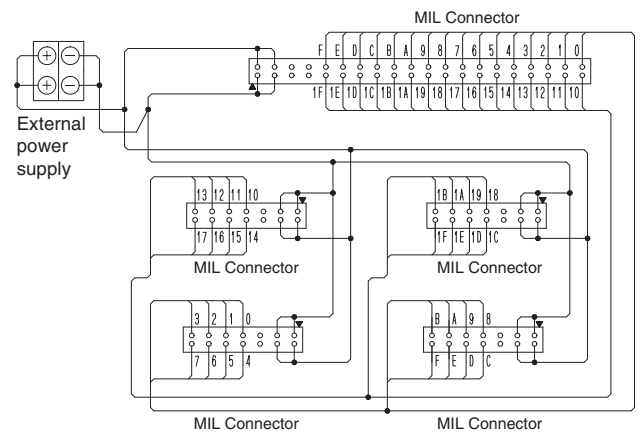
## Ordering Information

Appearance	Model	Number of poles
	XW2R-G32GD-M1-COM	40 poles x 1 point 14 poles x 4 points

## Ratings and Specifications

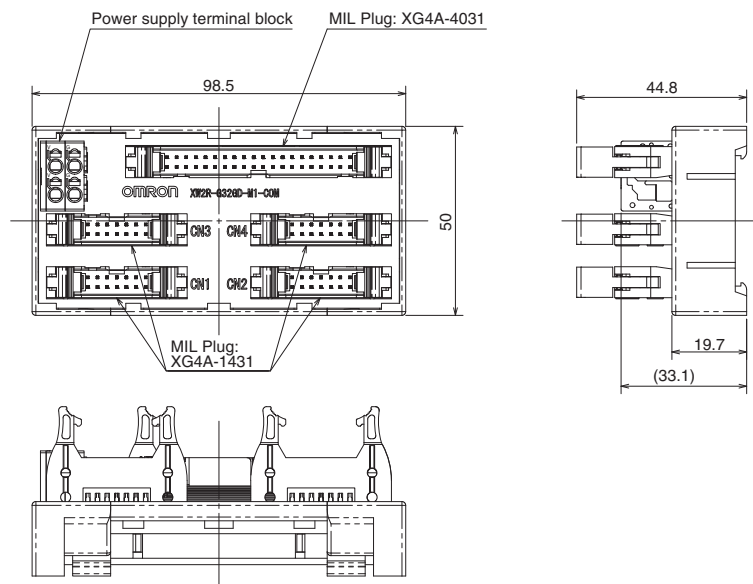
<b>Rated current</b>	Power supply terminal block: 8A Connectors: 1A
<b>Rated voltage</b>	24VDC
<b>Insulation resistance</b>	100MΩ min. (at 500VDC)
<b>Dielectric strength</b>	500VAC for 1 min (leakage current: 1 mA max.)
<b>Ambient operating temperature</b>	0 to 55°C
<b>Applicable wires</b>	<b>Applicable wire sizes</b>
	<b>Stripped length</b>
	AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded wires) AWG 28 to 16 (solid wires) (Outer diameter of insulation must be 4 mm max)
	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm

## Wiring Diagram



## Dimensions


(Unit: mm)





# Models for Connection to Mitsubishi PLCs with power supply terminals

## Ordering Information

Appearance	I/O Points	Number of poles (PLC end)	I/O	Model	Mounted Connector model	Cable Connector model
	8 points	14 poles	Input	<b>XW2R-N08GD-COM</b>	XG4A-1431 (PLC end) XN2D-4471 (for input)	XG4M-1430-T (PLC end) XN2A-1470 (for input)

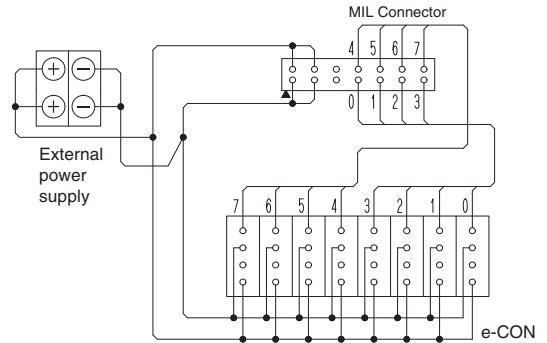
## Ratings and Specifications

<b>Rated current</b>	Power supply terminal block: 2A Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)
<b>Rated voltage</b>	24VDC
<b>Insulation resistance</b>	100MΩ min. (at 500VDC)
<b>Dielectric strength</b>	500VAC for 1 min (leakage current: 1 mA max.)
<b>Ambient operating temperature</b>	0 to 55°C
<b>Applicable wires</b>	<b>Applicable wire sizes *</b>
	<b>Stripped length</b>

\* This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 37.

Refer to page 37 for the recommended e-CON Connectors.

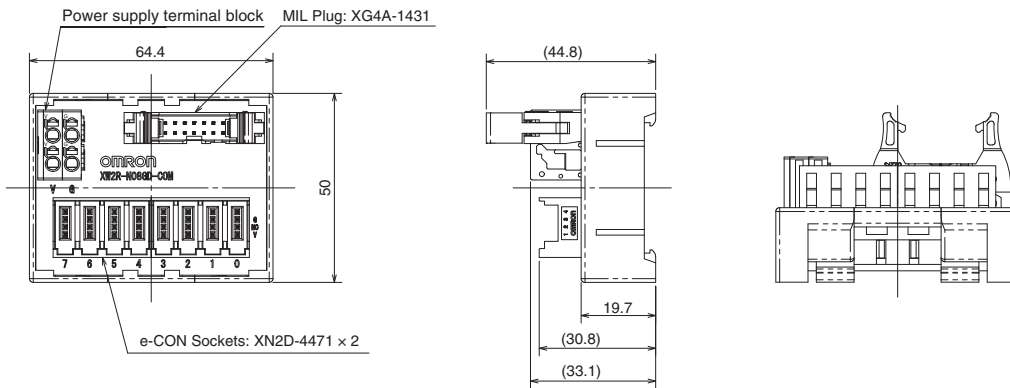
## Wiring Diagram



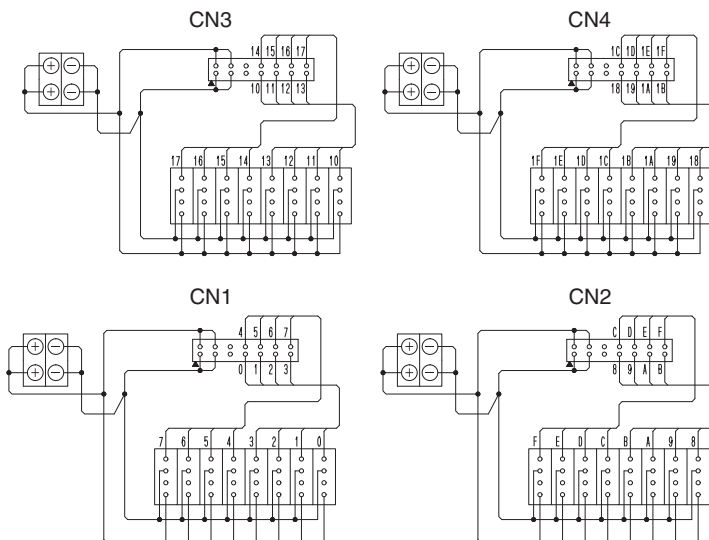
(This connection diagram is for combining with CN1 on the XW2R-G32GD-M1-COM.)

## Dimensions

(Unit: mm)




The e-CON address assignments are for combining the XW2R-G32GD-M1-COM with four XW2R-N08GD-COM.



# Models for Connection to Mitsubishi PLCs with power supply terminals

Push-in spring

## Ordering Information

Appearance	I/O Points	Input/Output	Model
	32 points	Input	XW2R-P32GD-M1-COM
		Output	XW2R-P32GD-M2-COM

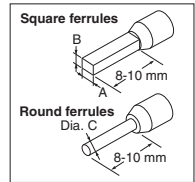
## Ratings and Specifications

Rated current	1 A/signal, 8 A/common	
Rated voltage	24VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



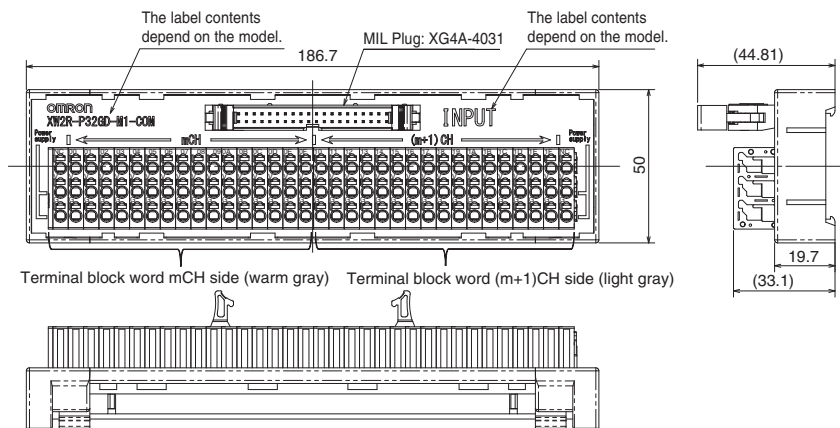
- Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

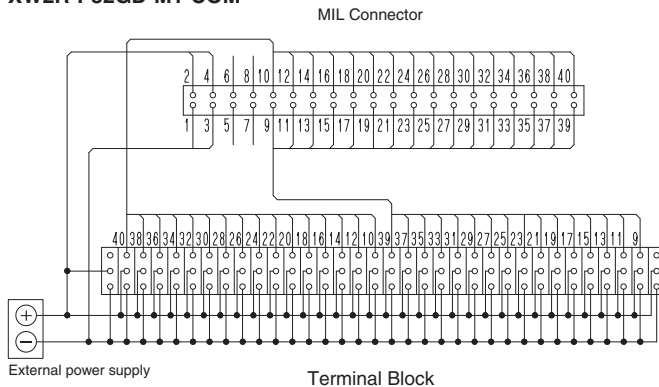
## Dimensions

(Unit: mm)

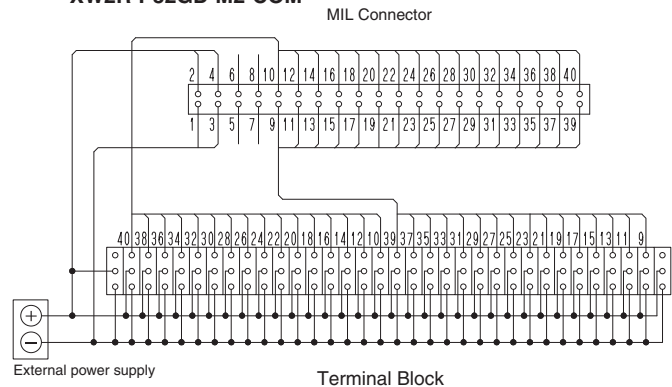


## Wiring Diagram

XW2R-P32GD-M1-COM



XW2R-P32GD-M2-COM



## Label Contents

XW2R-P32GD-M1-COM, XW2R-P32GD-M2-COM

	mCH																(m+1)CH																	
Row 1	NC	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	NC
Row 2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	
Row 3	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	

# XW2R

## Models for Connection to Mitsubishi PLCs without power supply terminals

### Model List

**XW2R - □ 34 G □ - M □**

Wiring method		Number of poles 34 34 poles (I/O points: 32 points)	Mounted Connector type		Mounting method		PLC Type	
J	Phillips screw		34	G	MIL (XG4A)	D	DIN Track mounting	M1
E	Slotted screw (rise up)				V	Vertical screw mounting	M2	
P	Push-in spring				Blank	Horizontal screw mounting		

### Models for Connection to Mitsubishi PLCs


PLC Type	I/O Points	Mitsubishi PLC Module model	Models that connect to PLCs *1	Connecting cables *2
M1	32	LX41C4 QX41/QX41-S1/QX41-S2 QX71 RX41C4 QH42P (Input) QX41Y41P (Input) RH42C4NT2P (Input)	XW2R-□34GD-M1: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□BF-L: 1 Cable
	64	LX42C4 QX42/QX42-S1 QX82/QX82-S1 RX42C4	XW2R-□34GD-M1: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□BF-L: 2 Cables
M2	32	LY41NT1P QY41P QY71 RY41NT2P RY41PT1P QH42P (Output) QX41Y41P (Output) RH42C4NT2P (Output)	XW2R-□34GD-M2: 1 pcs	XW2Z-□□□B: 1 Cable, or XW2Z-□□□BF-L: 1 Cable
	64	LY42NT1P QY42P QY82P RY42NT2P RY42PT1P	XW2R-□34GD-M2: 2 pcs	XW2Z-□□□B: 2 Cables, or XW2Z-□□□BF-L: 1 Cable

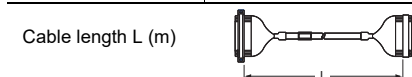
\*1 Replace the box (□) with the wiring method code (J, E, or P).

\*2 □□□□ is replaced by the cable length.

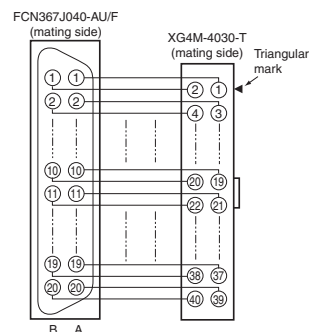
### XW2Z-□□□B, XW2Z-□□□BF-L

Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	With shield
		Model	Model
	0.5	XW2Z-050B	XW2Z-0050BF-L
	1	XW2Z-100B	XW2Z-0100BF-L
	1.5	XW2Z-150B	XW2Z-0150BF-L
	2	XW2Z-200B	XW2Z-0200BF-L
	3	XW2Z-300B	XW2Z-0300BF-L
	5	XW2Z-500B	XW2Z-0500BF-L
	7	XW2Z-700B	XW2Z-0700BF-L
	10	XW2Z-010B	XW2Z-1000BF-L
	15	XW2Z-15MB	---
	20	XW2Z-20MB	---




### Wiring Diagram



# Models for Connection to Mitsubishi PLCs without power supply terminals

Phillips screw

## Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-J34GD-M1
		XW2R-J34GD-M2

\* Only DIN Track mounting models are described here.

## Ratings and Specifications

Rated current	0.5 A/signal, 2 A/common	
Rated voltage	24VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)
	Stripped length	9 mm
	Tightening	0.5 N·m

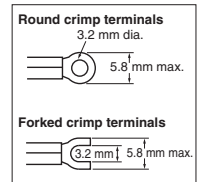
### Details on Crimp Terminals

#### Wiring Terminal Blocks

- Using Crimp Terminals (With a Terminal Block with M3 Screws)

#### Terminal Screw Tightening Torque

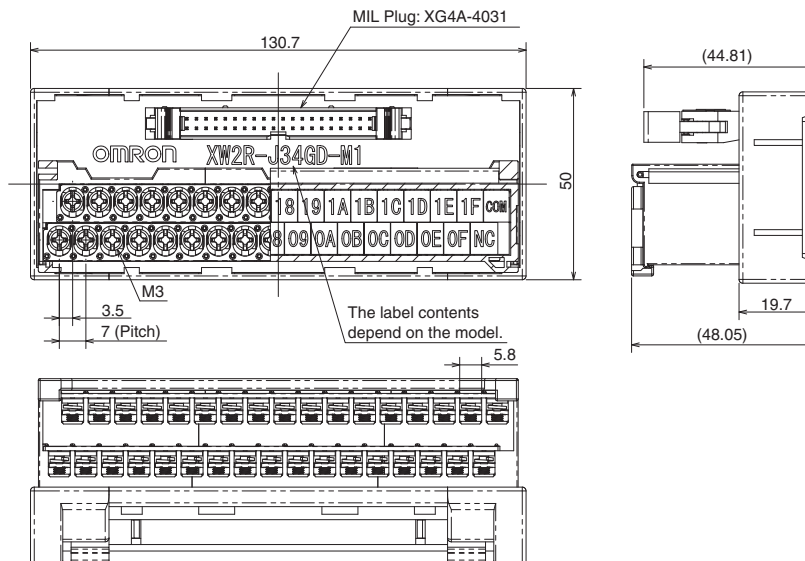
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



Applicable crimp terminals	Applicable wires
Round crimp terminals	1.25-3 AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )
Forked crimp terminals	1.25Y-3 AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )

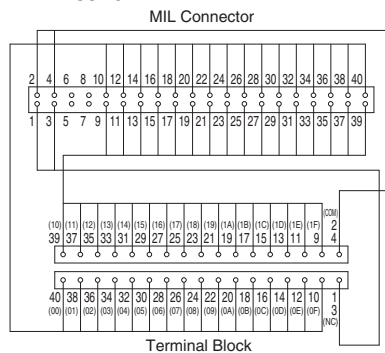
## Dimensions

(Unit: mm)

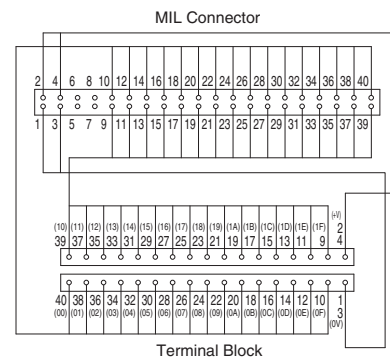


## Wiring Diagram

### XW2R-J34GD-M1



### XW2R-J34GD-M2



## Label Contents

### XW2R-J34GD-M1

1	0	1	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	9	1	A	1	B	1	C	1	D	1	E	1	F	COM
0	0	0	1	0	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9	0	A	0	B	0	C	0	D	0	E	0	F	NC

### XW2R-J34GD-M2


1	0	1	1	1	2	1	3	1	4	1	5	1	6	1	7	1	8	1	9	1	A	1	B	1	C	1	D	1	E	1	F	+V
0	0	0	1	0	2	0	3	0	4	0	5	0	6	0	7	0	8	0	9	0	A	0	B	0	C	0	D	0	E	0	F	0V

# XW2R

## Models for Connection to Mitsubishi PLCs without power supply terminals

Slotted screw (rise up)

### Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-E34GD-M1
		XW2R-E34GD-M2

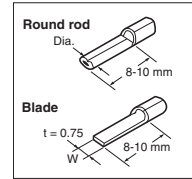
\* Only DIN Track mounting models are described here.

### Ratings and Specifications

Rated current	0.5 A/signal, 2 A/common	
Rated voltage	24VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 22 to 16 (ferrules) AWG 26 to 16 (stranded or solid wires)
	Stripped length	7 mm
	Tightening	0.5 to 0.6 N·m

### Details on Crimp Terminals

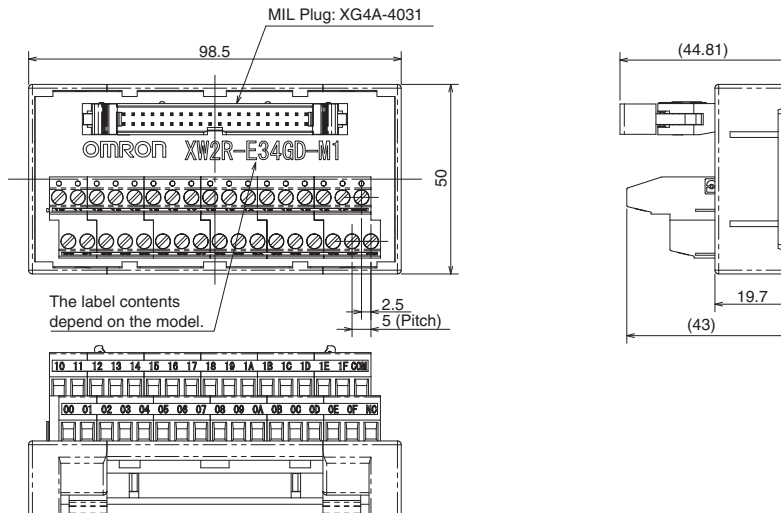
	Applicable crimp terminals	Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm <sup>2</sup> )
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm <sup>2</sup> )
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm <sup>2</sup> )



**Note:** Round rod and blade crimp terminals are made by Nichifu.

### Dimensions

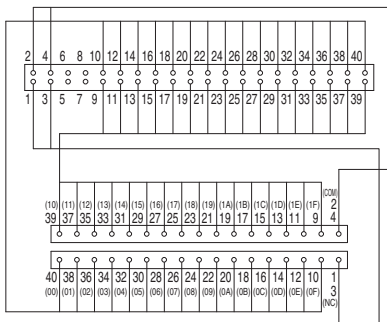
(Unit: mm)



### Wiring Diagram

XW2R-E34GD-M1

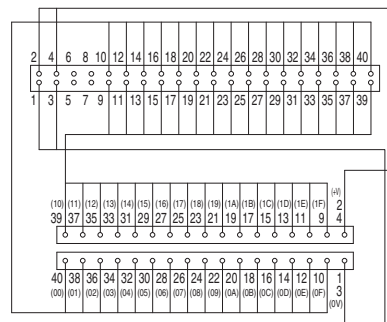
MIL Connector



Terminal Block

XW2R-E34GD-M2

MIL Connector



Terminal Block

### Label Contents

XW2R-E34GD-M1

10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	COM
00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	NC

XW2R-E34GD-M2


10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	1V
00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0V



# Models for Connection to Mitsubishi PLCs without power supply terminals

Push-in spring

## Ordering Information

Appearance	I/O Points (Number of poles)	Model *
	32 (34)	XW2R-P34GD-M1
		XW2R-P34GD-M2

\* Only DIN Track mounting models are described here.

## Ratings and Specifications

<b>Rated current</b>	0.5 A/signal, 2 A/common
<b>Rated voltage</b>	24VDC
<b>Insulation resistance</b>	100MΩ min. (at 500VDC)
<b>Dielectric strength</b>	500VAC for 1 min (leakage current: 1 mA max.)
<b>Ambient operating temperature</b>	0 to 55°C
<b>Applicable wires</b>	<b>Applicable wire sizes</b>
	<b>Stripped length</b>

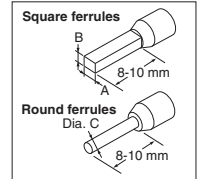
AWG 24 to 14 (ferrules)  
AWG 28 to 14 (stranded or solid)  
(Outer diameter of insulation must be 4 mm max)

AWG28-16: 8 to 10 mm  
AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



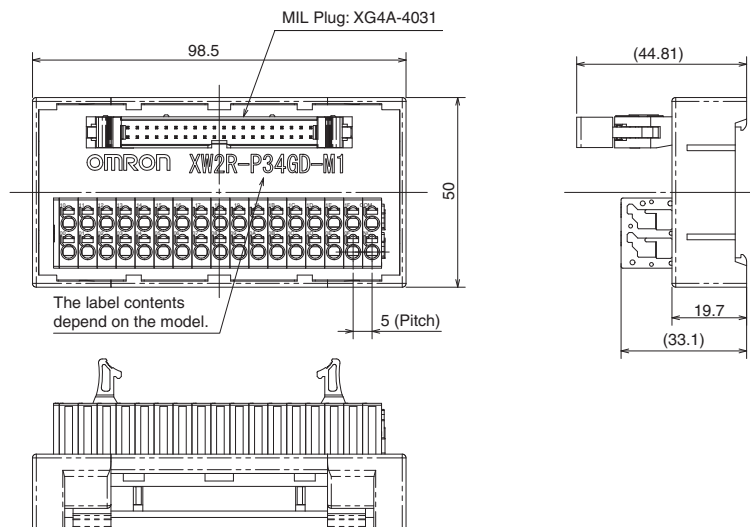
#### Ferrule Dimensions

Square ferrules	<b>Dimension A (Width)</b>	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	<b>Dimension B (Height)</b>	2 mm max.	
Round ferrules	<b>Dimension C (Diameter)</b>	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

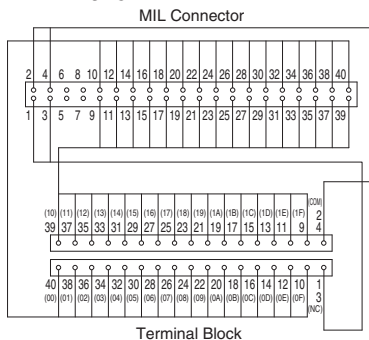
## Dimensions

(Unit: mm)

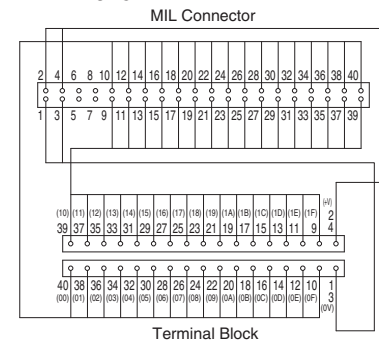


## Wiring Diagram

XW2R-P34GD-M1



XW2R-P34GD-M2



## Label Contents

XW2R-P34GD-M1

10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	COM
00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	NC

XW2R-P34GD-M2

10	11	12	13	14	15	16	17	18	19	1A	1B	1C	1D	1E	1F	+V
00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	0V

# Models for Keyence PLCs with power supply terminals

## Model List

### XW2R - P 32 G D - K 1 - COM

Wiring method		I/O Points		Mounted Connector type		Mounting method		PLC Type		Power supply terminals	
P	Push-in spring	32	32 Points	G	MIL (XG4A)	D	DIN Track mounting	K1	Refer to the following table for details.	COM	Provided

## Models for Keyence PLCs


I/O	I/O Points	Unit	Models for Keyence PLCs	Models that connect to PLCs	Connecting cables*
Input	32	Input Unit Model	KV-C32XA, KV-C32XC	XW2R-P32GD-K1-COM:1 pcs	XW2Z-□□□EE: 1 Cable, or XW2Z-□□□EE-L: 1 Cable
	64		KV-C64XA, KV-C64XB, KV-C64XC	XW2R-P32GD-K1-COM:2 pcs	XW2Z-□□□EE: 2 Cables, or XW2Z-□□□EE-L: 2 Cables

\* □□□□ is replaced by the cable length.

**Note:** This Connector-Terminal Block Conversion Unit is for NPN. For PNP, reverse the polarity of the external power supply and I/O on the Connector-Terminal Block Conversion Unit.

### XW2Z-□□□EE, XW2Z-□□□EE-L

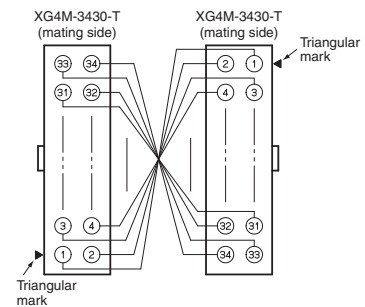
#### Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		Model	Model
	0.5	XW2Z-050EE	XW2Z-0050EE-L
	1	XW2Z-100EE	XW2Z-0100EE-L
	1.5	XW2Z-150EE	XW2Z-0150EE-L
	2	XW2Z-200EE	XW2Z-0200EE-L
	3	XW2Z-300EE	XW2Z-0300EE-L
	5	XW2Z-500EE	XW2Z-0500EE-L
	7	---	XW2Z-0700EE-L
	10	---	XW2Z-1000EE-L

Cable length L (m)



#### Wiring Diagram




**Note:** Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

# Models for Keyence PLCs with power supply terminals

Push-in spring

## Ordering Information

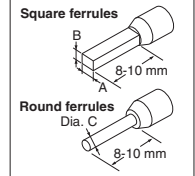
Appearance	I/O Points	Model
	32	XW2R-P32GD-K1-COM

## Ratings and Specifications

Rated current	1 A/signal, 8 A/common
Rated voltage	24VDC
Insulation resistance	100MΩ min. (at 500VDC)
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature	0 to 55°C
Applicable wires	Applicable wire sizes
	Stripped length

### Details on Crimp Terminals

- Applicable Ferrules**
- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



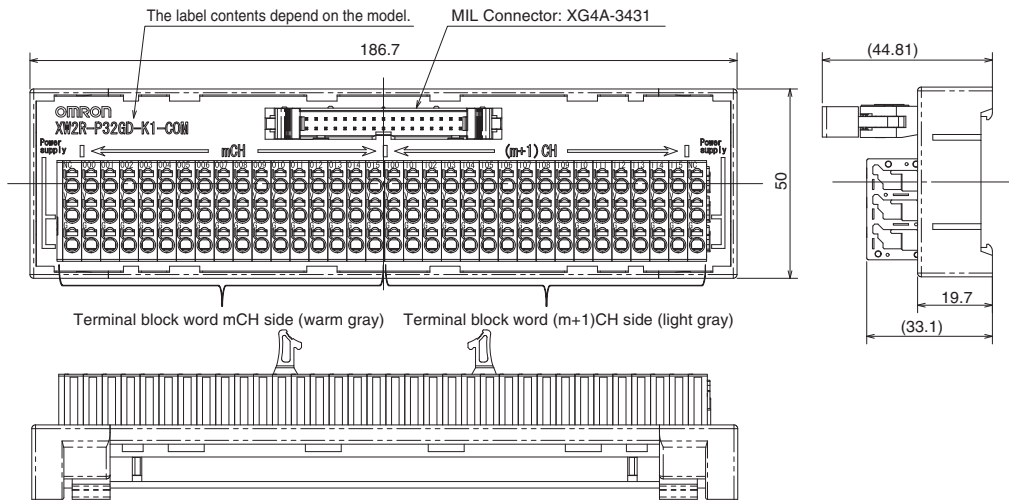
- Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

## Dimensions

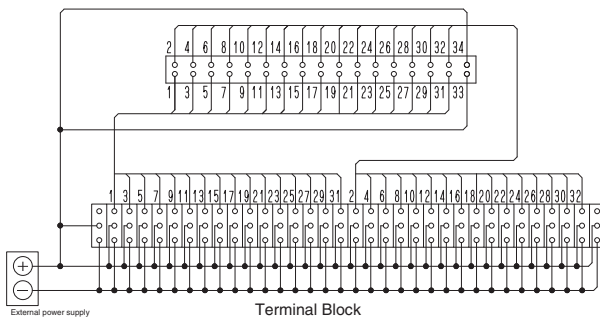
(Unit: mm)



## Wiring Diagram

### XW2R-P32GD-K1-COM

MIL Connector



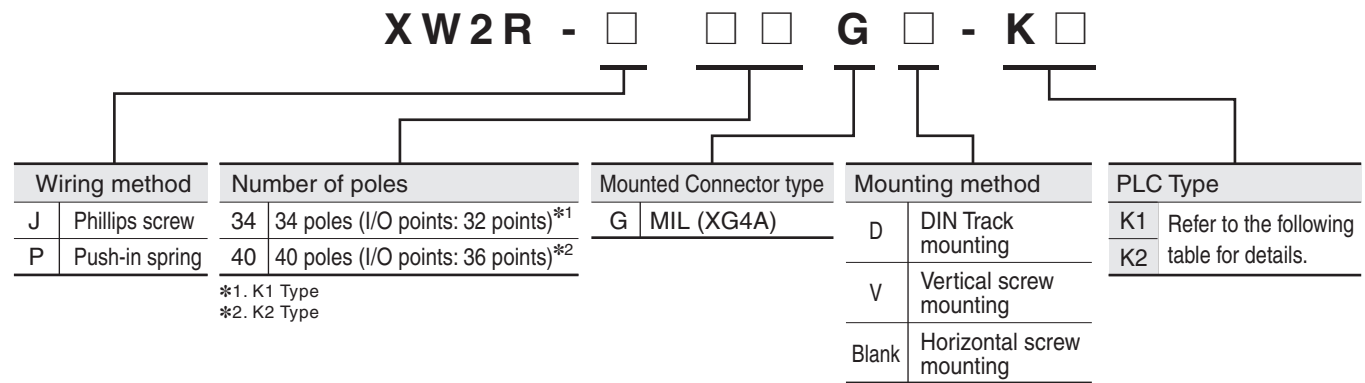
## Label Contents

### XW2R-P32GD-K1-COM

mCH																(m+1)CH																			
NC	000	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	NC		
V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G

# Models for Keyence PLCs without power supply terminals

## Model List



## Models for Keyence PLCs

I/O	I/O Points	Unit	Models for Keyence PLCs	Models that connect to PLCs *1	Connecting cables *2
Input	32	I/O Unit Model	KV-C32XA, KV-C32XC	XW2R-□□34GD-K1: 1 pcs	XW2Z-□□□EE: 1 Cable, or XW2Z-□□□EE-L: 1 Cable
Output			KV-C32TA, KV-C32TC, KV-C32TCP		
I/O			KV-C32TD		
	KV-C32XTD				
Input	64	I/O Unit Model	KV-C64XA, KV-C64XB, KV-C64XC	XW2R-□□34GD-K1: 2 pcs	XW2Z-□□□EE: 2 Cables, or XW2Z-□□□EE-L: 2 Cables
Output			KV-C64TA, KV-C64TC, KV-C64TD, KV-C64TCP		
---	---	CPU Unit Model	KV-1000, KV-3000, KV-5000, KV-5500	XW2R-□□40GD-K2: 1 pcs	XW2Z-□□□K: 1 Cable, or XW2Z-□□□FF-L: 1 Cable

\*1 Replace the box (□) with the wiring method code (J or P).  
\*2 □□□□ is replaced by the cable length.

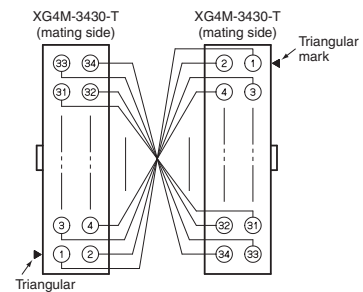
### XW2Z-□□□EE, XW2Z-□□□EE-L

#### Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		Model	Model
	0.5	XW2Z-050EE	XW2Z-050EE-L
	1	XW2Z-100EE	XW2Z-0100EE-L
	1.5	XW2Z-150EE	XW2Z-0150EE-L
	2	XW2Z-200EE	XW2Z-0200EE-L
	3	XW2Z-300EE	XW2Z-0300EE-L
	5	XW2Z-500EE	XW2Z-0500EE-L
	7	---	XW2Z-0700EE-L
	10	---	XW2Z-1000EE-L

Cable length L (m)

#### Wiring Diagram



**Note:** Wire the connector terminals 1:1 so that the connector terminal numbers coincide.

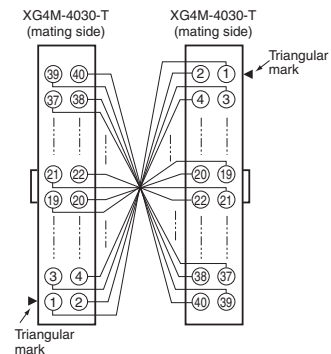
### XW2Z-□□□K, XW2Z-□□□FF-L

#### Connectors: One 40-pin MIL Connector to One 40-pin MIL Connector

Appearance	Cable length L (m)	With shield	Without shield
		Model	Model
	0.25	XW2Z-C25K	---
	0.5	XW2Z-C50K	XW2Z-0050FF-L
	1	XW2Z-100K	XW2Z-0100FF-L
	1.5	XW2Z-150K	XW2Z-0150FF-L
	2	XW2Z-200K	XW2Z-0200FF-L
	3	XW2Z-300K	XW2Z-0300FF-L
	5	XW2Z-500K	XW2Z-0500FF-L
	7	---	XW2Z-0700FF-L
10	XW2Z-010K	XW2Z-1000FF-L	

Cable length L (m)

#### Wiring Diagram



**Note:** Wire the connector terminals 1:1 so that the connector terminal numbers coincide.






# Models for Keyence PLCs without power supply terminals

Push-in spring

## Ordering Information

Appearance	I/O Points (Number of poles)	Model *	Dimension A (mm)
	32 (34)	XW2R-P34GD-K1	98.5
	36 (40)	XW2R-P40GD-K2	113.5

\* Only DIN Track mounting models are described here.

## Ratings and Specifications

Rated current	1A
Rated voltage	AC/ DC125V
Insulation resistance	100MΩ min. (at 500VDC)
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature	0 to 55°C
Applicable wires	Applicable wire sizes
	Stripped length

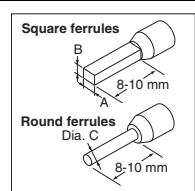
AWG 24 to 14 (ferrules),  
AWG 28 to 14 (stranded or solid wires)  
(Outer diameter of insulation must be 4 mm max.)

AWG28-16: 8 to 10 mm,  
AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



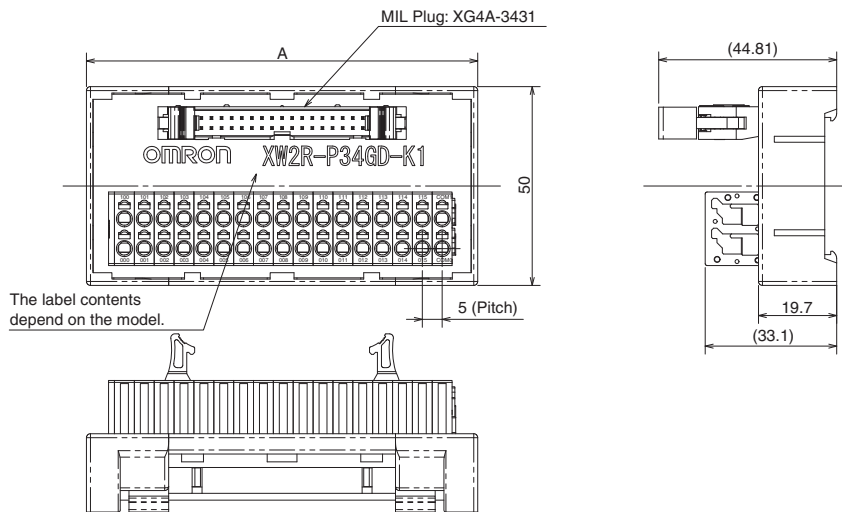
- Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

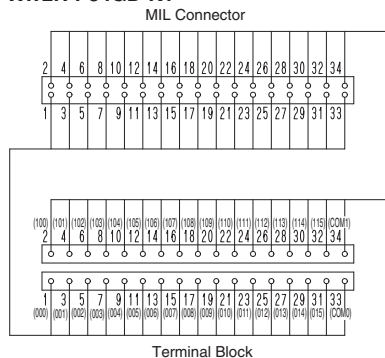
## Dimensions

(Unit: mm)

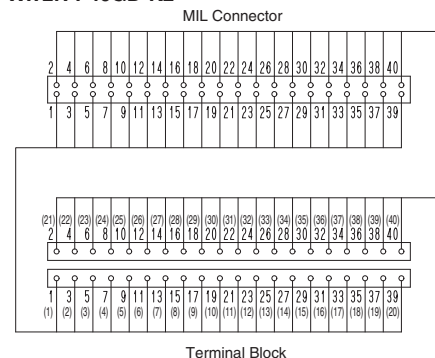


## Wiring Diagram

XW2R-P34GD-K1



XW2R-P40GD-K2



## Label Contents

XW2R-P34GD-K1

100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	COM1
000	001	002	003	004	005	006	007	008	009	010	011	012	013	014	015	COM0

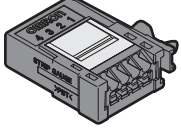
XW2R-P40GD-K2

21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

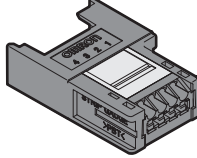
# Input Device Connectors: XN2 e-CON Connectors

## Ordering Information

### For Sensor

Appearance	Number of poles	Model
	4	XN2A-1470

### Relay Connector

Appearance	Number of poles	Model
	4	XN2B-1470

## Ratings and Specifications

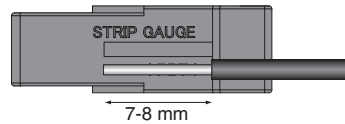
Rated current	3 A/pin (with AWG20 wires), 2 A/pin (with AWG22 wires), 1 A/pin (with AWG24 wires), 0.5 A/pin (with AWG26 or AWG28 wires)
Rated voltage	32 VDC
Contact resistance	30 mΩ max. (at 20 mV, 100 mA max.)
Insulation resistance	10 <sup>3</sup> MΩ min. (at 500VDC)
Dielectric strength	1,000 VAC for 60 sec (leakage current: 1 mA max.)
Insertion durability	50 times
Ambient operating temperature	-30 to 75°C *
Applicable wires	Stranded wire 0.08mm <sup>2</sup> (AWG28) to 0.5mm <sup>2</sup> (AWG20) (Outer diameter of insulation must be 1.5 mm max)

\* The operating temperature range is restricted by the maximum operating temperature of the cable.

## Wiring Procedure

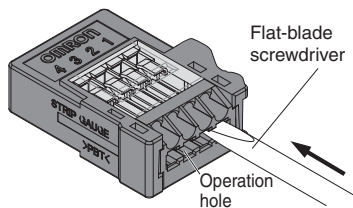
### Wire Preparation

Use the strip gauge on the front panel and strip 7 to 8 mm of the insulation. If you use stranded wires, twist them several times.

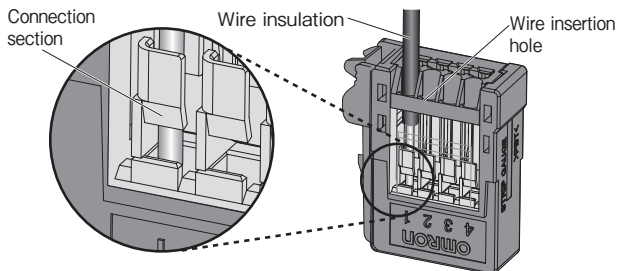


### Connection Procedure

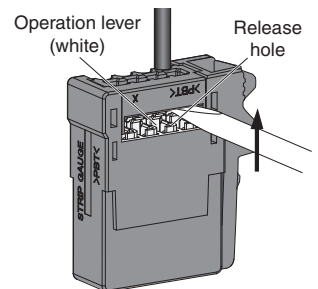
1. Press a flat-blade screwdriver into the operation hole until the operation lever locks into place.



2. Insert the wire all the way into the wire insertion hole. Confirm that the insulation on the wire also enters the wire insertion hole and that the end of the wire has passed through the connection section.

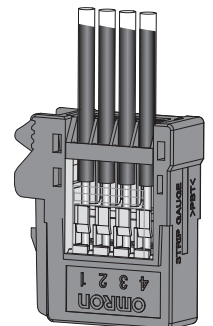


3. Insert a flat-blade screwdriver into the release hole and gently reset the lever. You should hear the operation lever reset.



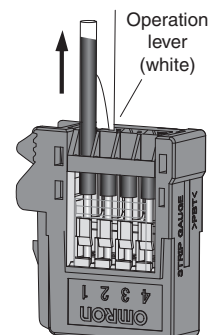
4. Finally, check the following items.

- Make sure the operation lever has been reset.
- Check the items given in step 2 again. (Pull lightly on the wire to see if it is held firmly in place.)



### Disconnection Procedure

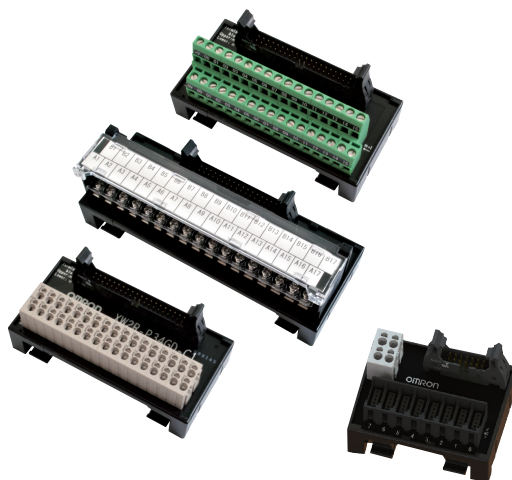
1. Press in the operation lever, confirm that the operation lever is locked in place, and then pull out the wire.
2. After you remove the wire, always reset the operation lever. However, if you are going to connect another wire to the same terminal, you do not need to reset the operation lever and can immediately connect the other wire.



# XW2R

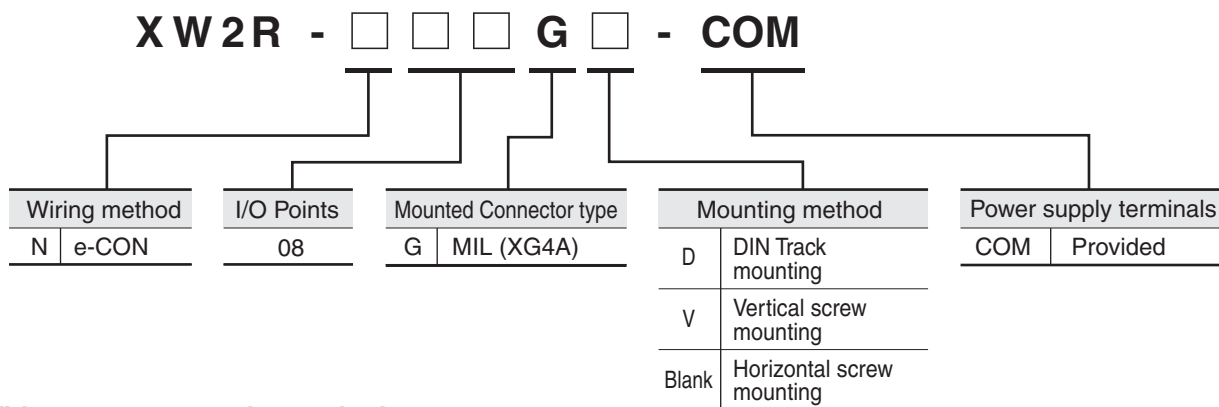
## Many Variations in Connectors and Number of Poles

- Models available with Phillips screw, slotted screw, push-in, or e-CON connections.
- The terminal arrangement enables smoother wiring work.
- Push-in terminals simplify wiring and make the Terminal Blocks even easier to use. (In comparison to the OMRON XW2F.)
- Mounting to DIN Track is possible.

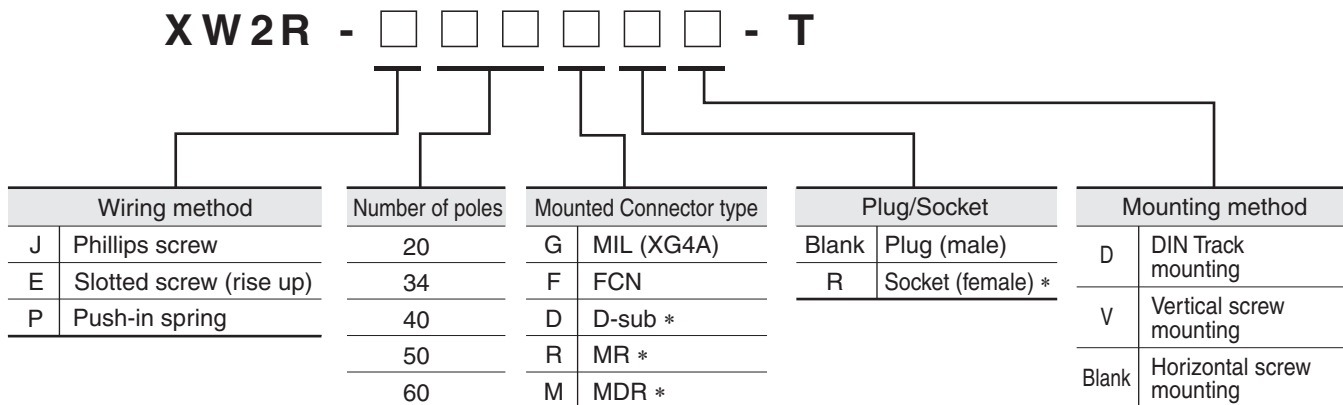


## Model List

### With power supply terminals



### Without power supply terminals



\* Consult your OMRON representative for these models.

## Options (Order Separately)


### Connecting Cables for Connector-Terminal Block Conversion Units

Refer to page 49.

# With power supply terminals

e-CON Type

## Ordering Information

Appearance	I/O Points	I/O	Model *	Mounted Connector model	Cable Connector model
	8 Points	Input	<b>XW2R-N08GD-COM</b>	XG4A-1431 (MIL Connector) XN2D-4471 (e-CON Connector)	XG4M-1430-T (MIL Connector) XN2A-1470 (e-CON Connector)

\* Only DIN Track mounting models are described here.

## Ratings and Specifications

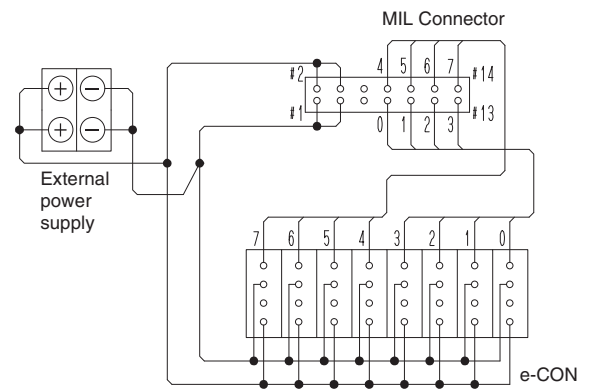
<b>Rated current</b>	Power supply terminal block: 2 A, Connectors/e-CON Connectors: 1 A (However, rated current of e-CON Connector depends on the wires that are used.)
<b>Rated voltage</b>	24VDC
<b>Insulation resistance</b>	100MΩ min. (at 500VDC)
<b>Dielectric strength</b>	500VAC for 1 min (leakage current: 1 mA max.)
<b>Ambient operating temperature</b>	0 to 55°C
<b>Applicable wires</b>	<b>Applicable wire sizes*</b>
	<b>Stripped length</b>

AWG 24 to 14 (ferrules),  
AWG 28 to 14 (stranded wires),  
AWG 28 to 16 (solid wires)  
(Outer diameter of insulation must be 4 mm max)

AWG28-16: 8 to 10 mm  
AWG14: 9 to 10 mm

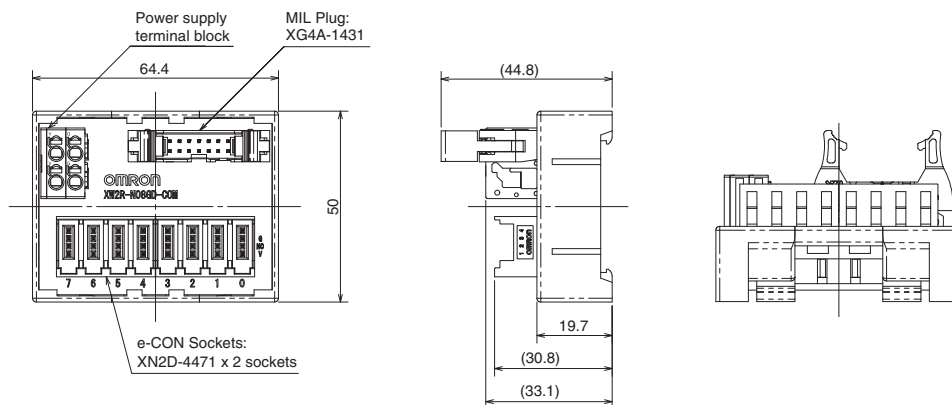
\* This is the applicable range for the power supply terminal block. For the applicable wire sizes for I/O Connectors (e-CON), refer to page 40.

## Wiring Diagram



## Dimensions

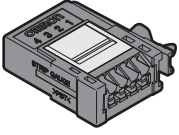
(Unit: mm)



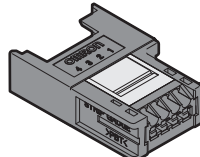
# Input Device Connectors: XN2 e-CON Connectors

## Ordering Information

### For Sensor

Appearance	Number of poles	Model
	4	XN2A-1470

### Relay Connector

Appearance	Number of poles	Model
	4	XN2B-1470

## Ratings and Specifications

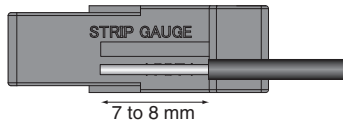
<b>Rated current</b>	3 A/pin (with AWG20 wires), 2 A/pin (with AWG22 wires), 1 A/pin (with AWG24 wires), 0.5 A/pin (with AWG26 or AWG28 wires)
<b>Rated voltage</b>	32 VDC
<b>Contact resistance</b>	30 mΩ max. (at 20 mV, 100 mA max.)
<b>Insulation resistance</b>	10 <sup>3</sup> MΩ min. (at 500VDC)
<b>Dielectric strength</b>	1,000 VAC for 60 sec (leakage current: 1 mA max.)
<b>Insertion durability</b>	50 times
<b>Ambient operating temperature</b>	-30 to 75°C *
<b>Applicable wires</b>	Stranded wire 0.08mm <sup>2</sup> (AWG28) to 0.5mm <sup>2</sup> (AWG20) (Outer diameter of insulation must be 1.5 mm max)

\* The operating temperature range is restricted by the maximum operating temperature of the cable.

## Wiring Procedure

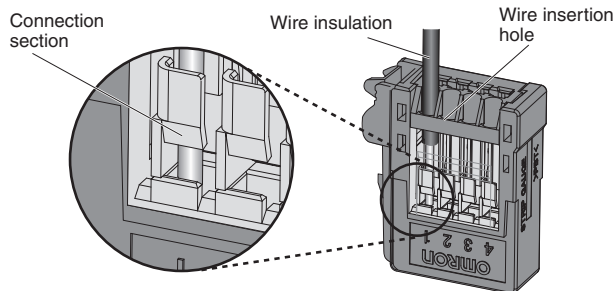
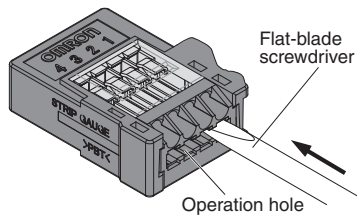
### Wire Preparation

Use the strip gauge on the front panel and strip 7 to 8 mm of the insulation. If you use stranded wires, twist them several times.

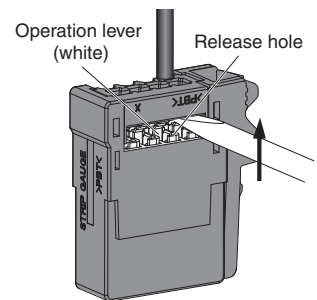


### Connection Procedure

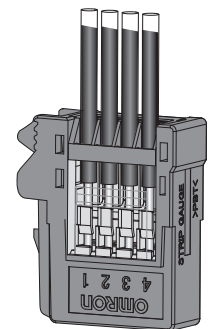
1. Press a flat-blade screwdriver into the operation hole until the operation lever locks into place.
2. Insert the wire all the way into the wire insertion hole. Confirm that the insulation on the wire also enters the wire insertion hole and that the end of the wire has passed through the connection section.



3. Insert a flat-blade screwdriver into the release hole and gently reset the lever. You should hear the operation lever reset.

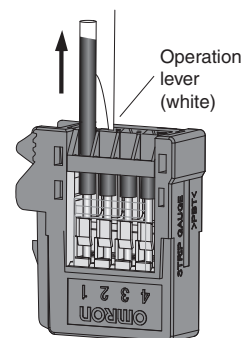


4. Finally, check the following items.
  - Make sure the operation lever has been reset.
  - Check the items given in step 2 again. (Pull lightly on the wire to see if it is held firmly in place.)



### Disconnection Procedure

1. Press in the operation level, confirm that the operation lever is locked into place, and then pull out the wire.
2. After you remove the wire, always reset the operation lever. However, if you are going to connect another wire to the same terminal, you do not need to reset the operation lever and can immediately connect the other wire.





# Without power supply terminals

Phillips screw

## Ordering Information

Appearance *1	Mounted Connector model	Number of poles	Model *2	Dimension A (mm)	
	MIL Connector	XG4A-2031	20	XW2R-J20GD-T	81.7
		XG4A-3431	34	XW2R-J34GD-T	130.7
		XG4A-4031	40	XW2R-J40GD-T	151.7
		XG4A-5031	50	XW2R-J50GD-T	186.7
		XG4A-6031	60	XW2R-J60GD-T	221.7
	FCN Connector	FCN-364P040-AU	40	XW2R-J40FD-T	151.7

\*1 The mounted Connector shown in the appearance illustration is a MIL Connector.

\*2 Only DIN Track mounting models are described here.

## Ratings and Specifications

Rated current	1 A	
Rated voltage	125 VAC, 24 VDC	
Insulation resistance	100MΩ min.(at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (stranded or solid wires)
	Stripped length	9 mm
	Tightening	0.5 N·m

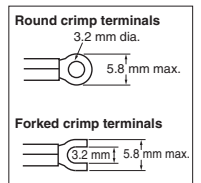
### Details on Crimp Terminals

#### Wiring Terminal Blocks

- Using Crimp Terminals (With a Terminal Block with M3 Screws)

#### Terminal Screw Tightening Torque

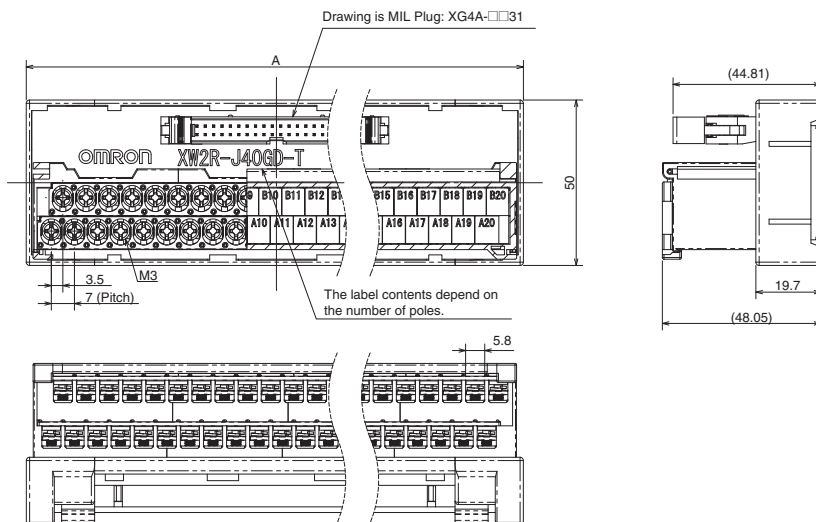
- Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.



Applicable crimp terminals	Applicable wires
Round crimp terminals	1.25-3 AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )
Forked crimp terminals	1.25Y-3 AWG 22 to 16 (0.30 to 1.25 mm <sup>2</sup> )

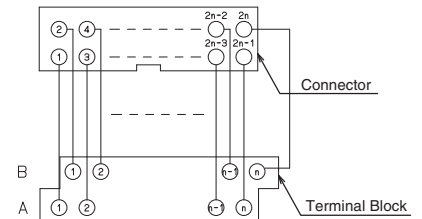
## Dimensions

(Unit: mm)

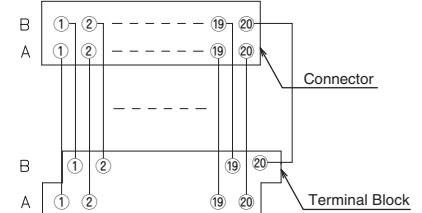


## Wiring Diagram

### Mounted Connector model: MIL Connector



### Mounted Connector model: FCN Connector



## Label Contents

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17


Note: The label contents for a Terminal Block with 34 poles are shown.

# XW2R

## Without power supply terminals

Slotted screw (rise up)

### Ordering Information

Appearance *1	Mounted Connector model	Number of poles	Model *2	Dimension A (mm)
	MIL Connector	XG4A-2031	<b>XW2R-E20GD-T</b>	64.4
		XG4A-3431	<b>XW2R-E34GD-T</b>	98.5
		XG4A-4031	<b>XW2R-E40GD-T</b>	113.5
		XG4A-5031	<b>XW2R-E50GD-T</b>	138.5
		XG4A-6031	<b>XW2R-E60GD-T</b>	163.5
	FCN Connector	FCN-364P040-AU	<b>XW2R-E40FD-T</b>	113.5

\*1 The mounted Connector shown in the appearance illustration is a MIL Connector.

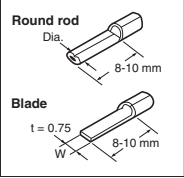
\*2 Only DIN Track mounting models are described here.

### Ratings and Specifications

Rated current	1 A	
Rated voltage	125 VAC, 24 VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 22 to 16 (ferrules) AWG 26 to 16 (stranded or solid wires)
	Stripped length	7 mm
	Tightening	0.5 to 0.6 N·m

#### Details on Crimp Terminals

Applicable crimp terminals		Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm <sup>2</sup> )
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm <sup>2</sup> )
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm <sup>2</sup> )



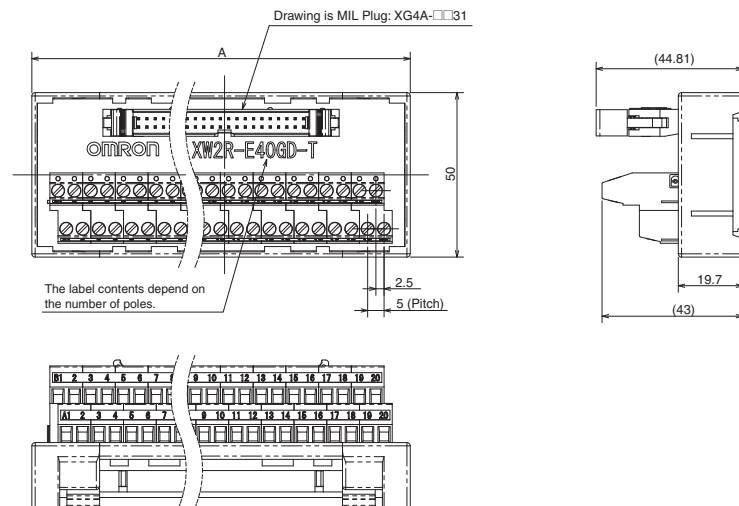
Round rod  
Dia.  
8-10 mm

Blade  
t = 0.75  
W  
8-10 mm

**Note:** Round rod and blade crimp terminals are made by Nichifu.

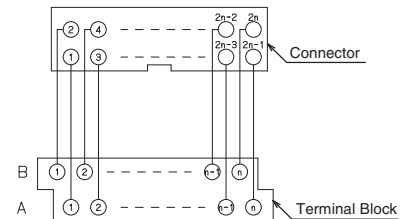
### Dimensions

(Unit: mm)

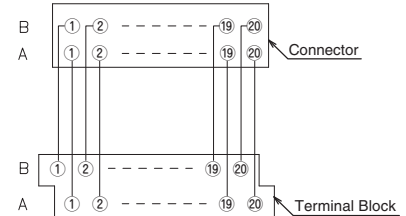


### Wiring Diagram

Mounted Connector model: MIL Connector



Mounted Connector model: FCN Connector



### Label Contents


B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

**Note:** The label contents for a Terminal Block with 34 poles are shown.

# Without power supply terminals

Push-in spring

## Ordering Information

Appearance *1	Mounted Connector model	Number of poles	Model *2	Dimension A (mm)
	MIL Connector	XG4A-2031	XW2R-P20GD-T	64.4
		XG4A-3431	XW2R-P34GD-T	98.5
		XG4A-4031	XW2R-P40GD-T	113.5
		XG4A-5031	XW2R-P50GD-T	138.5
		XG4A-6031	XW2R-P60GD-T	163.5
	FCN Connector	FCN-364P040-AU	40	XW2R-P40FD-T

\*1 The mounted Connector shown in the appearance illustration is a MIL Connector.

\*2 Only DIN Track mounting models are described here.

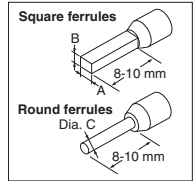
## Ratings and Specifications

Rated current	1 A	
Rated voltage	125 VAC, 24 VDC	
Insulation resistance	100MΩ min. (at 500VDC)	
Dielectric strength	500VAC for 1 min (leakage current: 1 mA max.)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	AWG 24 to 14 (ferrules) AWG 28 to 14 (stranded or solid) (Outer diameter of insulation must be 4 mm max)
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.



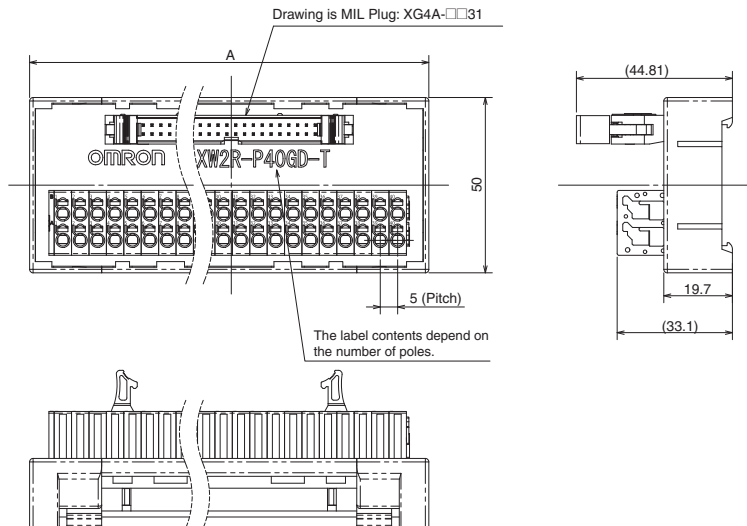
- Ferrule Dimensions

Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

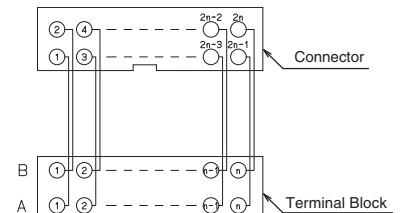
## Dimensions

(Unit: mm)

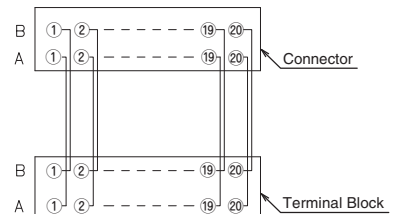


## Wiring Diagram

Mounted Connector model: MIL Connector



Mounted Connector model: FCN Connector



## Label Contents

B	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

Note: The label contents for a Terminal Block with 34 poles are shown.

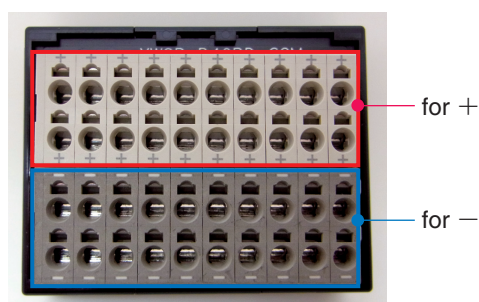
# Common Terminals XW2R-COM

Space-saving and less wiring work of power supply wiring are achieved.

- Common wiring is already wired on the PCB, transition wiring is unnecessary.
- Wiring is completed by one action.
- Models available with +, -, + - Mix.

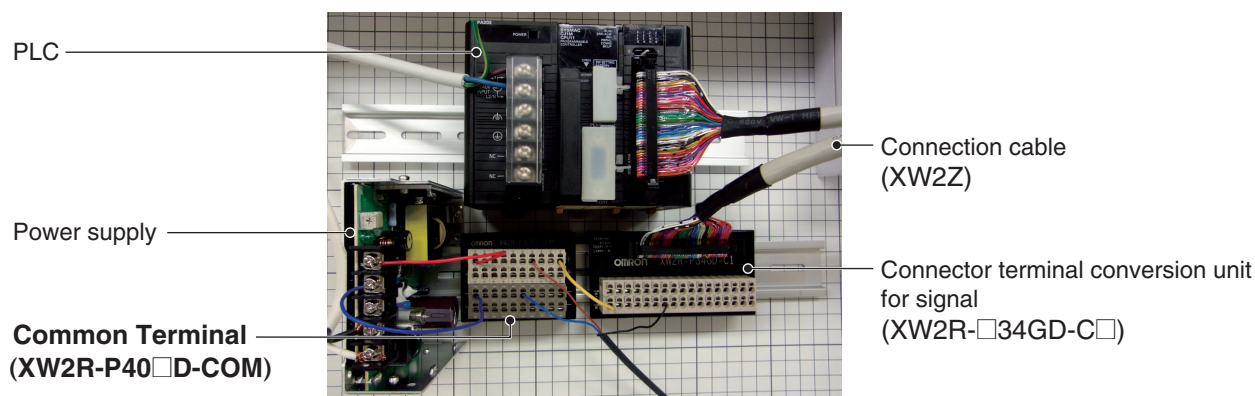


## Application Example



**Each terminal connected by PCB.**  
→ Bus-bar and transition wiring are unnecessary.

## Connection Examples






## Model list

XW2R - P 40 □ D - COM

Wiring method		Terminal number of poles		Type of connector		Mounting method		Power supply terminals (Common terminals)	
P	Push-in spring	40	40 poles	P	+ Common	D	DIN Track mounting	COM	Provided
				M	- Common				
				B	+ - Mix				

## Ordering Information

Appearance	Specification	Number of poles	Model
	+ Common terminal	40	XW2R-P40PD-COM
	- Common terminal		XW2R-P40MD-COM
	+ - Mix terminal		XW2R-P40BD-COM

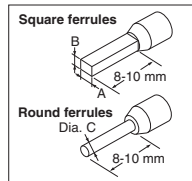
## Ratings and Specifications

Rated current	10A(Unit total)	
Rated voltage	125VDC/240VAC	
Insulation resistance	100MΩmin. (at 500VDC)	
Ambient operating temperature	0 to 55°C	
Applicable wires	Applicable wire sizes	Ferrule:AWG24 to 14 (0.2mm <sup>2</sup> to 2mm <sup>2</sup> ) Stranded or solid wire:AWG 28 to 14 (0.08mm <sup>2</sup> to 2mm <sup>2</sup> ) (Outer diameter of insulation must be 4 mm max)
	Stripped length	AWG28-16: 8 to 10 mm AWG14: 9 to 10 mm

### Details on Crimp Terminals

#### Applicable Ferrules

- Use ferrules of the lengths and thicknesses specified below. If other lengths or thicknesses are used, connection may not be possible or it may not be possible to insert or remove the posts.

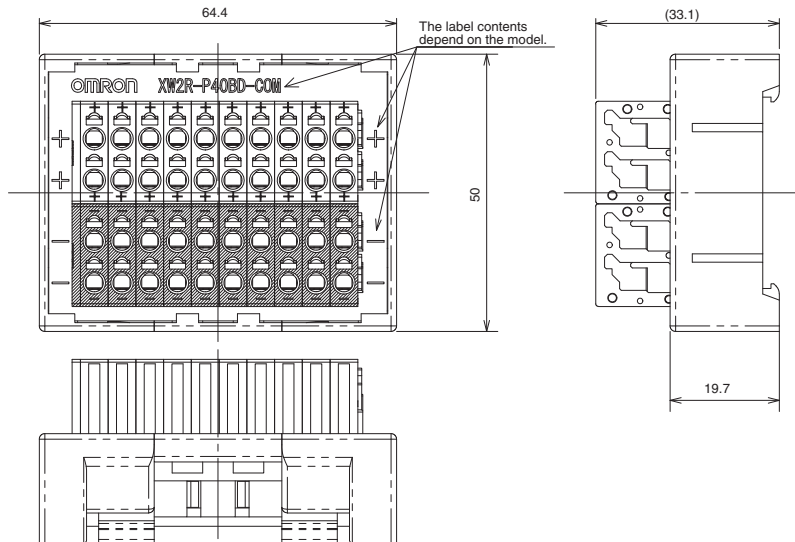


- Ferrule Dimensions

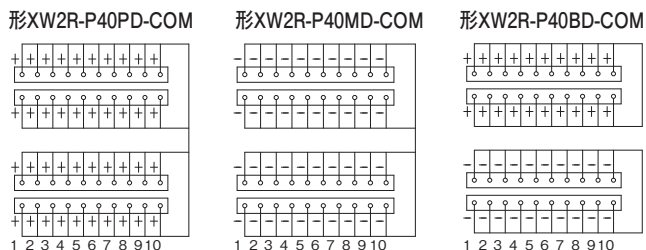
Square ferrules	Dimension A (Width)	2.7 mm max.	The cross-sectional area after crimping must be 4.8 mm <sup>2</sup> or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

Refer to page 46 for information on Square/Round ferrule and use tool.

## Dimensions



## Wiring Diagram



## Label Contents

XW2R-P40PD-COM	Upper	+	+	+	+	+	+	+	+	+	
	Lower	+	+	+	+	+	+	+	+	+	
XW2R-P40MD-COM	Upper	-	-	-	-	-	-	-	-	-	
	Lower	-	-	-	-	-	-	-	-	-	
XW2R-P40BD-COM	Upper	+	+	+	+	+	+	+	+	+	
	Lower	-	-	-	-	-	-	-	-	-	
		1	2	3	4	5	6	7	8	9	10

## Safety Precautions

### Precautions for Correct Use

#### Wiring Precautions

- Do not perform wiring work, remove connectors, or connect connectors while power is being supplied. Electric shock or damage to the device may result.
- Double-check all wiring before turning ON the power supply.
- After wiring, route the cable so that force is not applied directly to the connections.

#### Wires for Terminal Blocks

- Do not damage the cores when stripping the insulation from them.
- Always twist stranded wires together before connecting them.
- Do not presolder wires. It may not be possible to connect them or remove them.

#### XW2R-P□□ type (Square/Round ferrule)

Type of terminal	Manufacturer	Size	Recommend ferrule	Recommend crimp tool
Square ferrule	Phoenix Contact	AWG24	AI0.25-8□□	CRIMFOX6
		AWG22	AI0.34-8TQ	
		AWG20	AI0.5-10WH AI0.5-8WH	
		AWG18	AI0.75-10GY AI0.75-8GY	
		AWG16	AI1.5-10BK	
		AWG14	AI2.5-8BU	
	Weidmuller	AWG24	H0.25/12	PZ6 roto
		AWG22	H0.34/12	
		AWG20	H0.5/14	
		AWG18	H0.75/14	
		AWG16	H1.5/14	
		AWG14	H2.5/15D	
Round ferrule	Nichifu	AWG22- AWG16	TGV TC-1.25-9T	NH11 NH32 NH65

**Note:** □□ of ferrule model is for color (Ex: YE = Yellow)

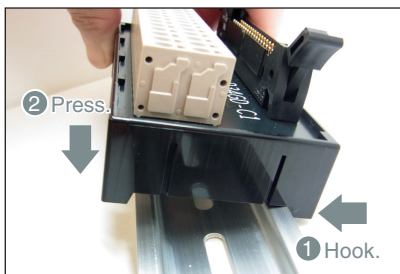
#### When an electric wire is connected directly (J,E,P type)



Model	Strip length "a"
XW2R-J□□	9 mm
XW2R-E□□	7 mm
XW2R-P□□	AWG28-16: 8 to 10 mm
	AWG14: 9 to 10 mm

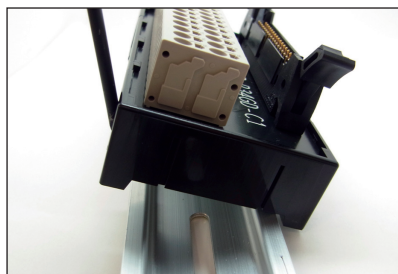
#### Mounting Units to and Removing Units from DIN Track

##### Mounting Procedure



1. Hook the Unit on the DIN Track.
2. Press the Unit onto the DIN Track to secure it.

##### Removal Procedure

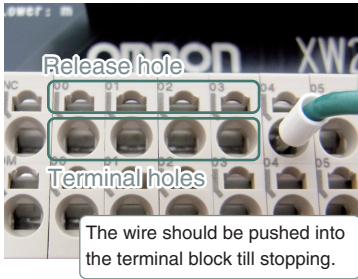


1. Insert a flat-blade screwdriver into the DIN Track lock.
2. Move the screwdriver like a lever to free the lock.



## Connecting Spring cramp Terminals

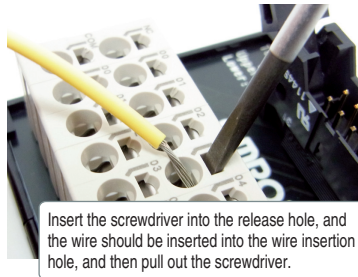
### Using Ferrules How to insert wire



### How to release wire

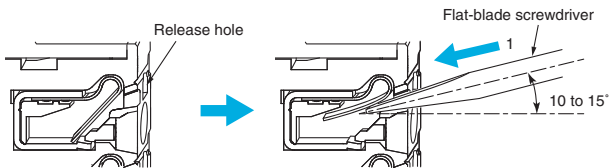


### Using Stripped Wires Inserting and Removing Wires

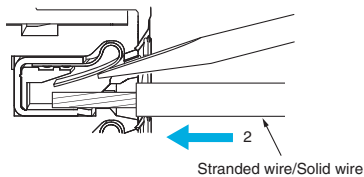


#### Inserting Wires

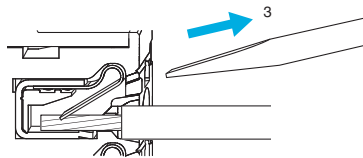
1. Press the a flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



2. Leave the flat-blade screwdriver pressed into the release hole and insert the stranded wire or the solid wire into the terminal hole. Insert the stranded wire or the solid wire until the stripped portion is no longer visible to prevent shorting.

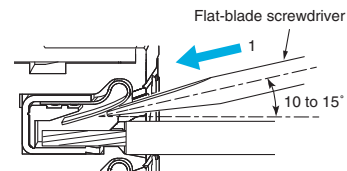


3. Remove the flat-blade screwdriver from the release hole.

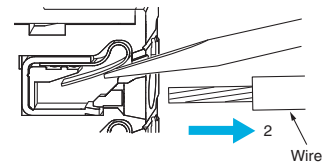


#### Removing Wires

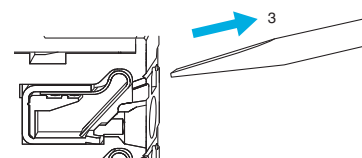
1. Press the flat-blade screwdriver diagonally into the release hole. Press at an angle of 10° to 15°. If you press in the screwdriver correctly, you will feel the spring in the release hole.



2. Leave the flat-blade screwdriver pressed into the release hole and pull out the wire.

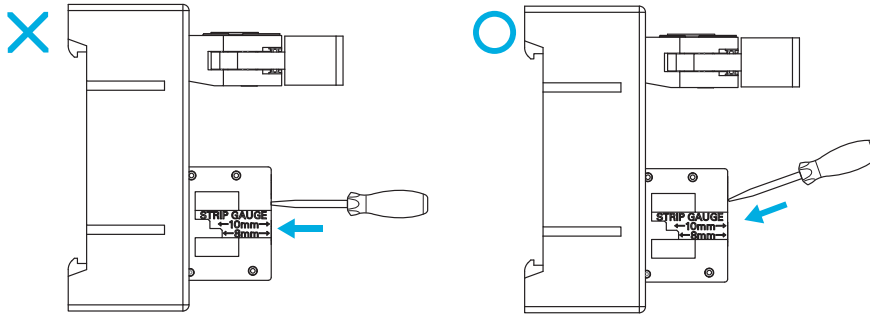


3. Remove the flat-blade screwdriver from the release hole.

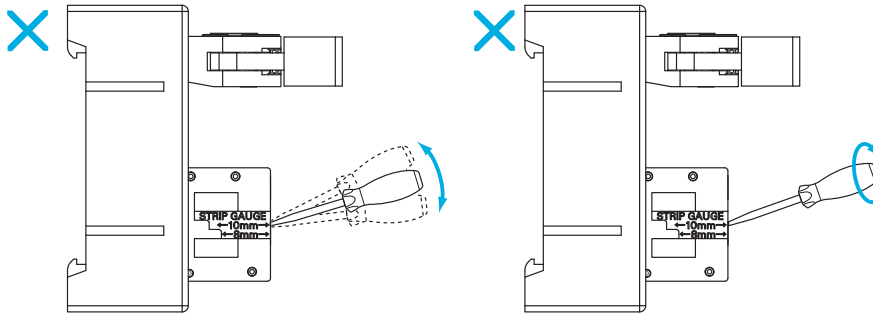


## Precautions for Safe Use

- Do not press the flat-blade screwdriver straight into the release hole. Doing so may break the terminal block.



- When you insert a flat-blade screwdriver into a release hole, press it down with a force of 30 N max. Applying excessive force may damage the terminal block.
- Do not tilt or twist the flat-blade screwdriver while it is pressed into the release hole. Doing so may break the terminal block.



- Make sure that all wiring is correct.
- Do not bend the cable forcibly. Doing so may sever the cable.

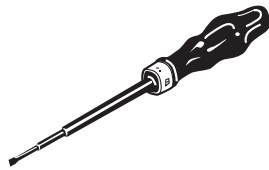
## Use tool

- Select a use tool from following table.

Model	Use tool	Specialized tool and dimension
XW2R-J□□	Phillips screwdriver	JIS#2
XW2R-E□□	Flat-blade screwdriver	Model XW4Z-00B Head of screwdriver is 0.4 x 2.5mm max.
XW2R-P□□		

## Flat-blade screwdriver

Model
XW4Z-00B



## Bending Radius of Connecting Cables

- To prevent damaging the Connecting Cables, use the following minimum bending radii as guidelines.

XW2Z - □ □ □ □ □

End of model number	Minimum bending radius
BF-L, EE-L, FF-L	66 mm
A	67.2 mm
EE	83 mm
B, D, K, L, N	88 mm

## For checking electrical continuity

- XW2R-E□□ type: There is no electrical continuity in the screw, Please confirm it at hole for confirming continuity or wiring part.

# Shielded Cables for Connector-Terminal Block Conversion Units

# XW2Z

Connect Connector-Terminal Block Conversion Units (XW2□) to I/O Units for Programmable Controllers with one touch.

Shielded



## Ratings and Specifications

Rated current	1 A
Rated voltage	125 VAC 24 VDC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.) *1
Insulation resistance	100 MΩ min. (at 500 VDC)
Dielectric strength	500 VAC for 1 min (leakage current: 1 mA max.) *2
Ambient operating temperature	0 to 80°C

\*1 Contact resistance for the Connector.

\*2 Dielectric strength for the Connector.

## Materials and Finish

Item	Part name	Materials and Finish	
Connectors	XG4M-2030 XG4M-3430 XG4M-4030	Housing	Fiber-glass reinforced PBT resin (UL94V-0)/black
		Cover	
	Contacts	Mating end	Phosphor bronze/nickel base, 0.15-μm gold plating
		Press-fit end	Phosphor bronze/nickel base, 2.0-μm tin plating
	XG4T-2004/4004	Strain Relief	Fiber-glass reinforced PBT resin (UL94V-0)/black
	FCN-367J024-AU/F * FCN-367J040-AU/F *	Housing	Polyester resin (UL94V-0)/black
Contacts		Mating end	Copper alloy/gold plated
		Press-fit end	Copper alloy/tin plated
Connecting screw	Steel/nickel plated		
Cable	UL2464 Interface Cable	AWG28/Shielded	
Crimp terminal	Forked crimp terminal	1.25 Y AS 3.5 or the equivalent	

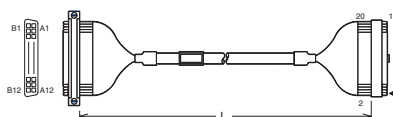
Note: These housings, contacts, and connecting screws are made by Fujitsu Component Ltd.

## XW2Z-□□□□A

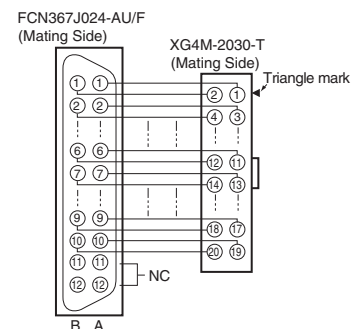
Connectors: One 24-pin FCN Connector to One 20-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-050A	0.5
	XW2Z-100A	1
	XW2Z-150A	1.5
	XW2Z-200A	2
	XW2Z-300A	3
	XW2Z-500A	5
	XW2Z-700A	7
	XW2Z-010A	10
	XW2Z-15MA	15
	XW2Z-20MA	20

Cable length L (m)



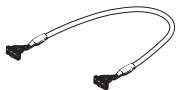
## Wiring Diagram



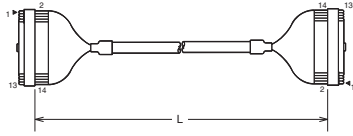
# XW2Z

## XW2Z-□□□AA

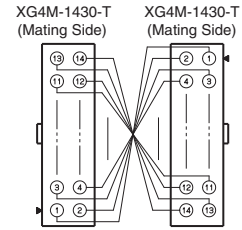
Connectors: One 14-pin MIL Connector to One 14-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-050AA	0.5
	XW2Z-100AA	1
	XW2Z-200AA	2
	XW2Z-500AA	5
	XW2Z-010AA	10

Cable length L (m)




## Wiring Diagram



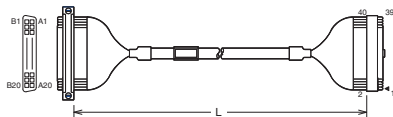
Note: Wire the pins 1:1 so that the Connector pin numbers match.

## XW2Z-□□□B

Connectors: One 40-pin FCN Connector to One 40-pin MIL Connector

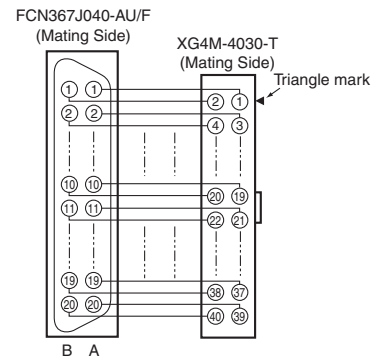
Appearance	Type	Model	Cable length L (m)
	Normal wiring	XW2Z-050B	0.5
		XW2Z-100B	1
		XW2Z-150B	1.5
		XW2Z-200B	2
		XW2Z-300B	3
		XW2Z-500B	5
		XW2Z-700B	7
		XW2Z-010B	10
		XW2Z-15MB	15
		XW2Z-20MB	20
	Reversed wiring	XW2Z-050B-R1	0.5
		XW2Z-100B-R1	1
		XW2Z-150B-R1	1.5
		XW2Z-200B-R1	2
		XW2Z-500B-R1	5

Cable length L (m)

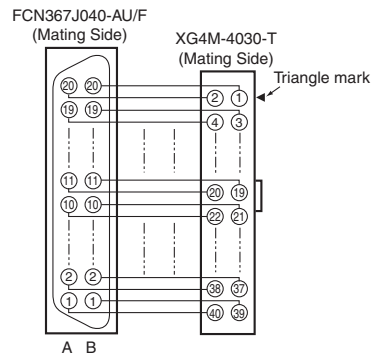


## Wiring Diagram

Normal wiring



Reversed wiring

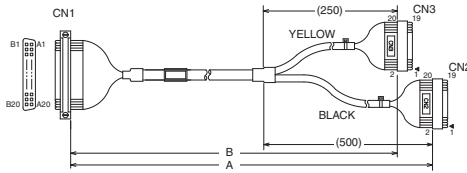


**XW2Z-□□□D**

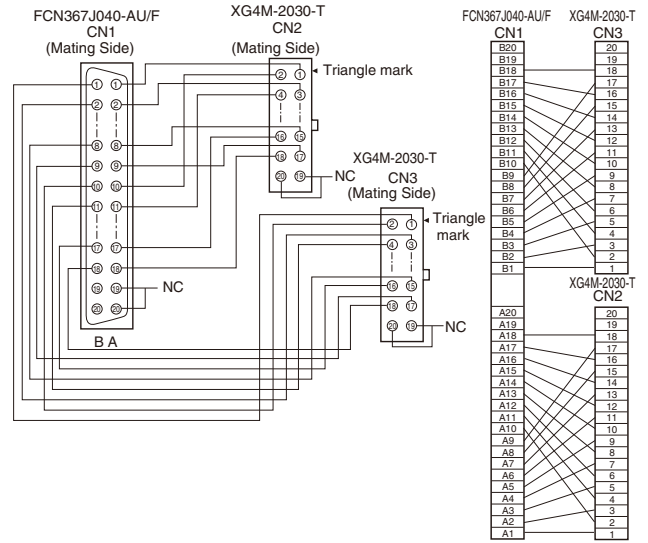
Connectors: One 40-pin FCN Connector to Two 20-pin MIL Connectors

Appearance	Model	Cable length L (m)	
		A	B
	XW2Z-100D	1	0.75
	XW2Z-150D	1.5	1.25
	XW2Z-200D	2	1.75
	XW2Z-300D	3	2.75
	XW2Z-500D	5	4.75
	XW2Z-010D	10	9.75
	XW2Z-15MD	15	14.75
XW2Z-20MD	20	19.75	

Cable length L (m)



**Wiring Diagram**

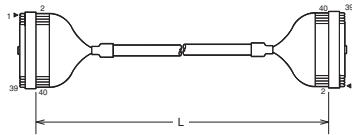


**XW2Z-□□□EE**

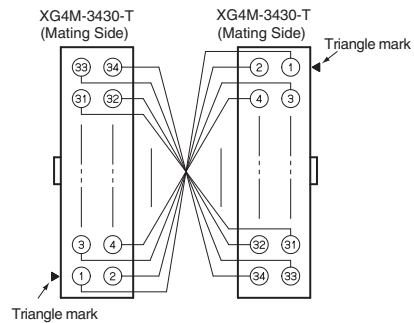
Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

Appearance	Model	Cable length L (m)
XW2Z-100EE	1	
XW2Z-150EE	1.5	
XW2Z-200EE	2	
XW2Z-300EE	3	
XW2Z-500EE	5	

Cable length L (m)



**Wiring Diagram**



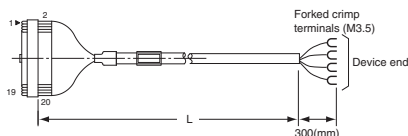
**Note:** Wire the pins 1:1 so that the Connector pin numbers match.

**XW2Z-□□□F**

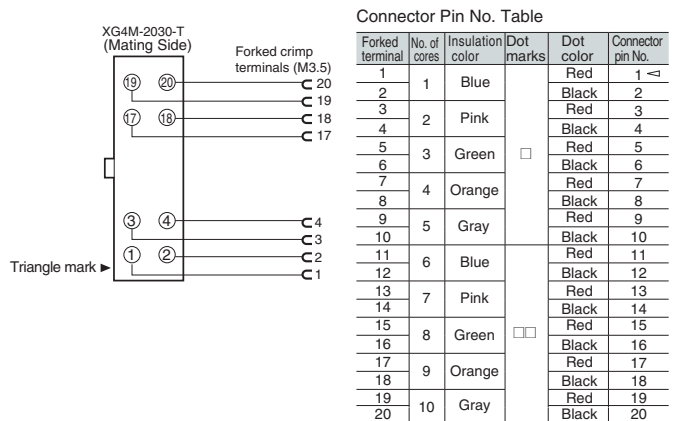
Connectors: One 20-pin MIL Connector to 20 Loose Wires with Crimp Terminals Attached

Appearance	Model	Cable length L (m)
XW2Z-150F	1.5	
XW2Z-200F	2	
XW2Z-300F	3	
XW2Z-500F	5	
XW2Z-010F	10	
XW2Z-15MF	15	
XW2Z-20MF	20	

Cable length L (m)




**Wiring Diagram**

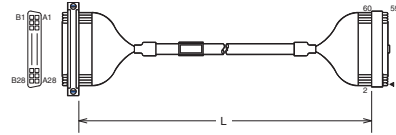


## XW2Z-□□□H-1 (to connect CS1-series I/O Unit)

Connectors: One 56-pin FCN Connector to One 60-pin MIL Connector

Appearance	Type	Model	Cable length L (m)	
			A	B
	Normal wiring	XW2Z-050H-1	0.5	
		XW2Z-100H-1	1	
		XW2Z-150H-1	1.5	
		XW2Z-200H-1	2	
		XW2Z-300H-1	3	
		XW2Z-500H-1	5	
		XW2Z-700H-1	7	
	Reversed wiring	XW2Z-010H-1	10	
		XW2Z-100H-1G	1	
		XW2Z-150H-1G	1.5	

Cable length L (m)




\* One or two Cables are used for each PLC I/O Unit.

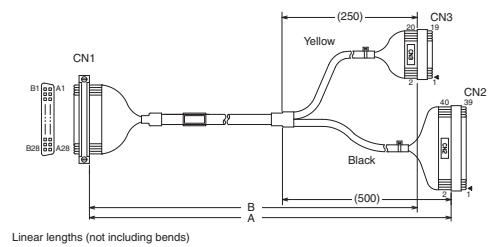
Note: 1. The CS1 signals that are connected to the XW2D are different between the XW2Z-□□□H-□ and XW2Z-□□□H-□G.

## XW2Z-□□□H-2 (to connect CS1-series I/O Unit)

Connectors: One 56-pin FCN Connector to One 20-pin, One 40-pin MIL Connectors

Appearance	Type	Model	Cable length L (m)	
			A	B
	Normal wiring	XW2Z-100H-2	1	0.75
		XW2Z-150H-2	1.5	1.25
		XW2Z-200H-2	2	1.75
		XW2Z-300H-2	3	2.75
		XW2Z-500H-2	5	4.75
		XW2Z-010H-2	10	9.75
		Reversed wiring	XW2Z-100H-2G	1
	XW2Z-150H-2G		1.5	1.25
	XW2Z-200H-2G		2	1.75

Cable length L (m)




\* One or two Cables are used for each PLC I/O Unit.

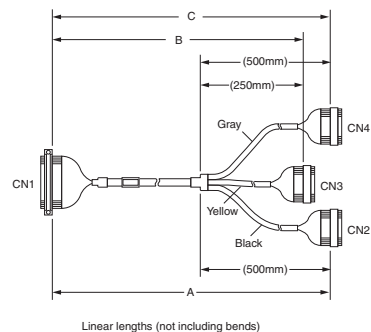
Note: 1. The CS1 signals that are connected to the XW2D are different between the XW2Z-□□□H-□ and XW2Z-□□□H-□G.

## XW2Z-□□□H-3 (to connect CS1-series I/O Unit)

Connectors: One 56-pin FCN Connector to Three 20-pin MIL Connectors

Appearance	Model	Cable length L (m)		
		A	B	C
	XW2Z-100H-3	1	0.75	1
	XW2Z-150H-3	1.5	1.25	1.5
	XW2Z-200H-3	2	1.75	2
	XW2Z-300H-3	3	2.75	3
	XW2Z-500H-3	5	4.75	5
	XW2Z-010H-3	10	9.75	10

Cable length L (m)



\* One or two Cables are used for each PLC I/O Unit.






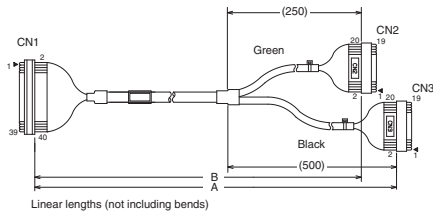
# XW2Z

## XW2Z-□□□N

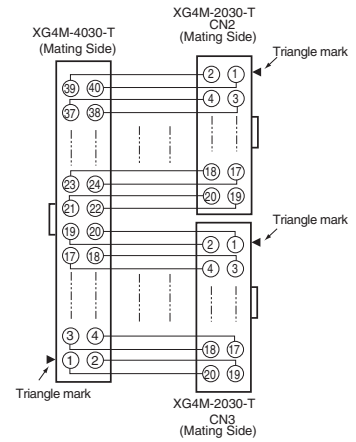
Connectors: One 40-pin MIL Connector to Two 20-pin MIL Connector

Appearance	Model	Cable length L (m)	
		A	B
	XW2Z-100N	1	0.75
	XW2Z-150N	1.5	1.25
	XW2Z-200N	2	1.75
	XW2Z-300N	3	2.75
	XW2Z-500N	5	4.75
	XW2Z-010N	10	9.75
	XW2Z-15MN	15	14.75
	XW2Z-20MN	20	19.75

Cable length L (m)

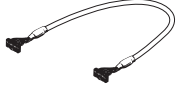


## Wiring Diagram

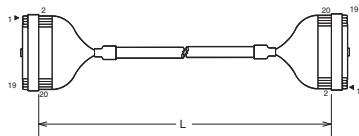


## XW2Z-□□□X

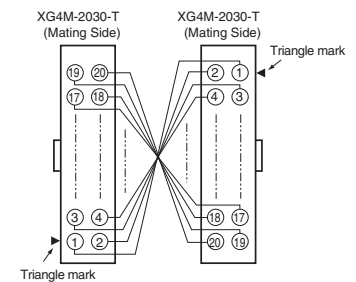
Connectors: One 20-pin MIL Connector to One 20-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-C50X	0.5
	XW2Z-100X	1
	XW2Z-200X	2
	XW2Z-300X	3
	XW2Z-500X	5
	XW2Z-010X	10

Cable length L (m)



## Wiring Diagram



**Note:** Wire the pins 1:1 so that the Connector pin numbers match.

## Safety Precautions

### Precautions for Correct Use

#### ● Wiring

- Do not perform wiring work, remove connectors, or connect connectors while power is being supplied. Electric shock or damage to the device may result.
- Double-check all wiring before turning ON the power supply.
- After wiring, route the cable so that force is not applied directly to the connections.

#### ● Bending Radius of Connecting Cables

- To prevent damaging the Connecting Cables, use the following minimum bending radii as guidelines.

XW2Z - □ □ □ □ □

End of model number	Minimum bending radius
AA	60mm
A,AU,F,X	68mm
EE	83mm
B,BU,B-A,B-B,D, K,L,N	88mm
H-1,H-2,H-3	99mm

# XW2Z

**Connect I/O Terminal Blocks (XW2□) to I/O Units of Programmable Controllers. Fast and Faultless.**



## Ratings and Specifications

<b>Rated current</b>	1 A
<b>Rated voltage</b>	125 VAC 24 VDC
<b>Contact resistance</b>	20 mΩ max. (at 20 mV, 100 mA max.) *1
<b>Insulation resistance</b>	100 MΩ min. (at 500 VDC)
<b>Dielectric strength</b>	500 VAC for 1 min (leakage current: 1 mA max.) *2
<b>Ambient operating temperature</b>	0 to 80°C

\*1 Contact resistance for the Connector.

\*2 Dielectric strength for the Connector.

## Materials and Finish

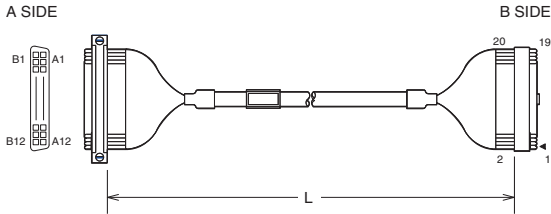
Item	Part name		Materials and Finish
<b>Connectors</b>	MIL : XG4M-2030 XG4M-4030 XG4M-6030	Housing	Fiber-glass reinforced PBT resin (UL94V-0)/black
		Cover	
		Contacts	Mating end
	Press-fit end		Phosphor bronze/nickel base, 2.0-μm tin plating
	XG4T-2004/4004/6004	Strain Relief	Fiber-glass reinforced PBT resin (UL94V-0)/black
	FCN-367J024-AU/FW * FCN-367J040-AU/FW FCN-367J056-AU/FW	Housing	Polyester resin (UL94V-0)/black
		Contacts	Mating end
Press-fit end			Copper alloy/tin plated
Connecting screw		Steel/nickel plated	
<b>Cable</b>	UL2464 Interface Cable		AWG28 or the equivalent/AWG28 Non-shield

Note: These housings, contacts, and connecting screws are made by Fujitsu Component, Ltd.

**XW2Z-□□□□AD-L**

Connectors: One 24-pin FCN Connector to One 20-pin MIL Connector

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0050AD-L	0.5	
	XW2Z-0100AD-L	1	
	XW2Z-0200AD-L	2	
	XW2Z-0300AD-L	3	



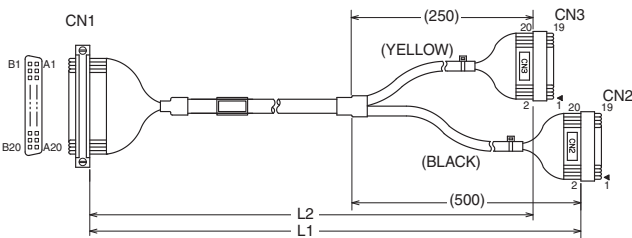
**Wiring Diagram**

Connector No.	Wire pair No.	Color of insulator	Color of dot	Connector No.
A SIDE	A1	White	—	▶ 1
	B1	White	Black	2
	A2	Black	—	3
	B2	Black	White	4
	A3	Yellow	—	5
	B3	Yellow	Gray	6
	A4	Red	—	7
	B4	Red	White	8
	A5	Purple	—	9
	B5	Purple	White	10
	A6	Pink	—	11
	B6	Pink	White	12
A7	Orange	—	13	
B7	Orange	White	14	
A8	Brown	—	15	
B8	Brown	White	16	
A9	Green	—	17	
B9	Green	White	18	
A10	Light Green	—	19	
B10	Light Green	White	20	
A11		NC	—	
B11		NC	—	
A12		NC	—	
B12		NC	—	

**XW2Z-□□□□BH-L01**

Connectors: One 40-pin FCN Connector to Two 20-pin MIL Connectors

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0100BH-L01	1	0.75
	XW2Z-0150BH-L01	1.5	1.25
	XW2Z-0200BH-L01	2	1.75
	XW2Z-0300BH-L01	3	2.75
	XW2Z-0400BH-L01	4	3.75
	XW2Z-0500BH-L01	5	4.75



**Wiring Diagram**

CN 1 : FCN-367J040-AU/FW

Color of insulator	Color of dot	Connector No.
White	Black	B1
Black	White	B2
Yellow	Gray	B3
Red	White	B4
Purple	White	B5
Pink	White	B6
Orange	White	B7
Brown	White	B8
Green	White	B9
Light Green	White	B10
Gray	White	B11
Blue	White	B12
Light Blue	White	B13
White	Red	B14
Black	Orange	B15
Yellow	Red	B16
Red	Yellow	B17
Purple	Yellow	B18
NC		B19
NC		B20

CN 3 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	White	Black
2	Light Green	White
3	Black	White
4	Gray	White
5	Yellow	Gray
6	Blue	White
7	Red	White
8	Light Blue	White
9	Purple	White
10	White	Red
11	Pink	White
12	Black	Orange
13	Orange	White
14	Yellow	Red
15	Brown	White
16	Red	Yellow
17	Green	White
18	Purple	Yellow
19		NC
20		NC

Color of insulator	Color of dot	Connector No.
White	—	A1
Black	—	A2
Yellow	—	A3
Red	—	A4
Purple	—	A5
Pink	—	A6
Orange	—	A7
Brown	—	A8
Green	—	A9
Light Green	—	A10
Gray	—	A11
Blue	—	A12
Light Blue	—	A13
White	Yellow	A14
Black	Yellow	A15
Yellow	Black	A16
Red	Black	A17
Purple	Black	A18
NC		A19
NC		A20

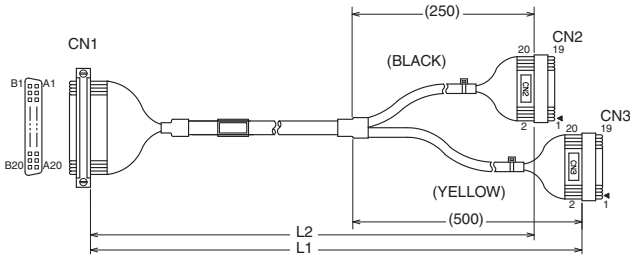
CN 2 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	White	—
2	Light Green	—
3	Black	—
4	Gray	—
5	Yellow	—
6	Blue	—
7	Red	—
8	Light Blue	—
9	Purple	—
10	White	Yellow
11	Pink	—
12	Black	Yellow
13	Orange	—
14	Yellow	Black
15	Brown	—
16	Red	Black
17	Green	—
18	Purple	Black
19		NC
20		NC

## XW2Z-□□□□BH-L02

Connectors: One 40-pin FCN Connector to Two 20-pin MIL Connectors

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0100BH-L02	1	0.75
	XW2Z-0150BH-L02	1.5	1.25
	XW2Z-0200BH-L02	2	1.75
	XW2Z-0300BH-L02	3	2.75
	XW2Z-0400BH-L02	4	3.75
	XW2Z-0500BH-L02	5	4.75



### Wiring Diagram

CN 1 : FCN-367J040-AU/FW

Color of insulator	Color of dot	Connector No.
White	Black	B1
Black	White	B2
Yellow	Gray	B3
Red	White	B4
Purple	White	B5
Pink	White	B6
Orange	White	B7
Brown	White	B8
Green	White	B9
Light Green	White	B10
Gray	White	B11
Blue	White	B12
Light Blue	White	B13
White	Red	B14
Black	Orange	B15
Yellow	Red	B16
Red	Yellow	B17
Purple	Yellow	B18
Pink	Yellow	B19
Orange	Yellow	B20

CN 3 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
20	White	Black
19	Gray	White
18	Black	White
17	Blue	White
16	Yellow	Gray
15	Light Blue	White
14	Red	White
13	White	Red
12	Purple	White
11	Black	Orange
10	Pink	White
9	Yellow	Red
8	Orange	White
7	Red	Yellow
6	Brown	White
5	Purple	Yellow
4	Green	White
3	Pink	Yellow
2	Light Green	White
▶ 1	Orange	Yellow

Color of insulator	Color of dot	Connector No.
White	-	A1
Black	-	A2
Yellow	-	A3
Red	-	A4
Purple	-	A5
Pink	-	A6
Orange	-	A7
Brown	-	A8
Green	-	A9
Light Green	-	A10
Gray	-	A11
Blue	-	A12
Light Blue	-	A13
White	Yellow	A14
Black	Yellow	A15
Yellow	Black	A16
Red	Black	A17
Purple	Black	A18
Pink	Black	A19
Orange	Black	A20

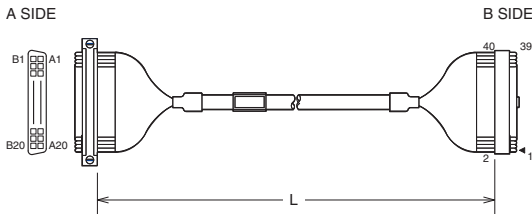
CN 2 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
20	White	-
19	Gray	-
18	Black	-
17	Blue	-
16	Yellow	-
15	Light Blue	-
14	Red	-
13	White	Yellow
12	Purple	-
11	Black	Yellow
10	Pink	-
9	Yellow	Black
8	Orange	-
7	Red	Black
6	Brown	-
5	Purple	Black
4	Green	-
3	Pink	Black
2	Light Green	-
▶ 1	Orange	Black

## XW2Z-□□□□BF-L

Connectors: One 40-pin FCN Connector to One 40-pin MIL Connector

Appearance	Models	Cable length L (m)
	XW2Z-0050BF-L	0.5
	XW2Z-0100BF-L	1
	XW2Z-0150BF-L	1.5
	XW2Z-0200BF-L	2
	XW2Z-0300BF-L	3
	XW2Z-0500BF-L	5
	XW2Z-0700BF-L	7
	XW2Z-1000BF-L	10




### Wiring Diagram

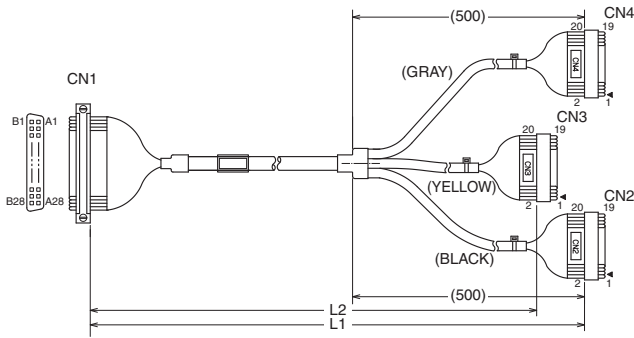
Connector No.	Wire pair No.	Color of insulator	Color of dot	Connector No.
A1		White	-	▶ 1
B1	1	White	Black	2
A2		Black	-	3
B2	2	Black	White	4
A3		Yellow	-	5
B3	3	Yellow	Gray	6
A4		Red	-	7
B4	4	Red	White	8
A5		Purple	-	9
B5	5	Purple	White	10
A6		Pink	-	11
B6	6	Pink	White	12
A7		Orange	-	13
B7	7	Orange	White	14
A8		Brown	-	15
B8	8	Brown	White	16
A9		Green	-	17
B9	9	Green	White	18
A10		Light Green	-	19
B10	10	Light Green	White	20
A11		Gray	-	21
B11	11	Gray	White	22
A12		Blue	-	23
B12	12	Blue	White	24
A13		Light Blue	-	25
B13	13	Light Blue	White	26
A14		White	Yellow	27
B14	14	White	Red	28
A15		Black	Yellow	29
B15	15	Black	Orange	30
A16		Yellow	Black	31
B16	16	Yellow	Red	32
A17		Red	Black	33
B17	17	Red	Yellow	34
A18		Purple	Black	35
B18	18	Purple	Yellow	36
A19		Pink	Black	37
B19	19	Pink	Yellow	38
A20		Orange	Black	39
B20	20	Orange	Yellow	40



**XW2Z-□□□□CJ-L01**

Connectors: One 56-pin FCN Connector to Three 20-pin MIL Connectors

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0150CJ-L01	1.5	1.25
	XW2Z-0200CJ-L01	2	1.75
	XW2Z-0300CJ-L01	3	2.75



**Wiring Diagram**

CN 1 : FCN-367J056-AU/FW

Color of insulator	Color of dot	Connector No.
White	Black	B1
Black	White	B2
Yellow	Gray	B3
Red	White	B4
Purple	White	B5
Pink	White	B6
Orange	White	B7
Brown	White	B8
Green	White	B9
Light Green	White	B10
Gray	White	B11
Blue	White	B12
Light Blue	White	B13
White	Red	B14
Black	Orange	B15
Yellow	Red	B16
Red	Yellow	B17
Purple	Yellow	B18
Pink	Yellow	B19
Orange	Yellow	B20
Brown	Yellow	B21
Green	Orange	B22
Light Green	Yellow	B23
Gray	Yellow	B24
Blue	Yellow	B25
Light Blue	Yellow	B26
White	Pink	B27
NC		B28

Color of insulator	Color of dot	Connector No.
White	-	A1
Black	-	A2
Yellow	-	A3
Red	-	A4
Purple	-	A5
Pink	-	A6
Orange	-	A7
Brown	-	A8
Green	-	A9
Light Green	-	A10
Gray	-	A11
Blue	-	A12
Light Blue	-	A13
White	Yellow	A14
Black	Yellow	A15
Yellow	Black	A16
Red	Black	A17
Purple	Black	A18
Pink	Black	A19
Orange	Black	A20
Brown	Black	A21
Green	Black	A22
Light Green	Black	A23
Gray	Black	A24
Blue	Black	A25
Light Blue	Black	A26
White	Purple	A27
NC		A28

CN4 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	Pink	Black
2	Pink	Yellow
3	Orange	Black
4	Orange	Yellow
5	Brown	Black
6	Brown	Yellow
7	Green	Black
8	Green	Orange
9	Light Green	Black
10	Light Green	Yellow
11	Gray	Black
12	Gray	Yellow
13	Blue	Black
14	Blue	Yellow
15	Light Blue	Black
16	Light Blue	Yellow
17	White	Purple
18	White	Pink
19		NC
20		NC

CN 3 : XG4M-2030-T


Connector No.	Color of insulator	Color of dot
▶ 1	Light Green	-
2	Light Green	White
3	Gray	-
4	Gray	White
5	Blue	-
6	Blue	White
7	Light Blue	-
8	Light Blue	White
9	White	Yellow
10	White	Red
11	Black	Yellow
12	Black	Orange
13	Yellow	Black
14	Yellow	Red
15	Red	Black
16	Red	Yellow
17	Purple	Black
18	Purple	Yellow
19		NC
20		NC

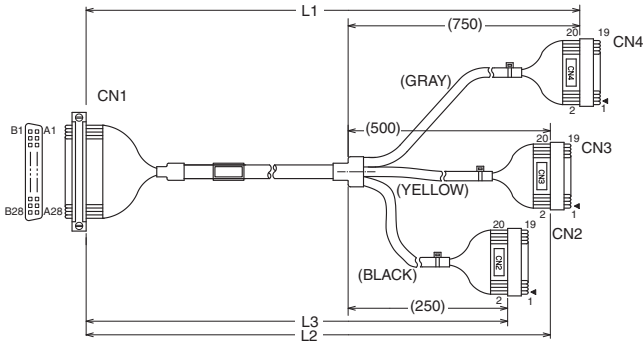
CN 2 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	White	-
2	White	Black
3	Black	-
4	Black	White
5	Yellow	-
6	Yellow	Gray
7	Red	-
8	Red	White
9	Purple	-
10	Purple	White
11	Pink	-
12	Pink	White
13	Orange	-
14	Orange	White
15	Brown	-
16	Brown	White
17	Green	-
18	Green	White
19		NC
20		NC

## XW2Z-□□□□CJ-L02

Connectors: One 56-pin FCN Connector to Three 20-pin MIL Connectors

Appearance	Models	Cable length L (m)		
		L1	L2	L3
	XW2Z-0150CJ-L02	1.5	1.25	1
	XW2Z-0200CJ-L02	2	1.75	1.5
	XW2Z-0300CJ-L02	3	2.75	2.5



### Wiring Diagram

CN 1 : FCN-367J056-AU/FW

Color of insulator	Color of dot	Connector No.
White	Black	B1
Black	White	B2
Yellow	Gray	B3
Red	White	B4
Purple	White	B5
Pink	White	B6
Orange	White	B7
Brown	White	B8
Green	White	B9
Light Green	White	B10
Gray	White	B11
Blue	White	B12
Light Blue	White	B13
White	Red	B14
Black	Orange	B15
Yellow	Red	B16
Red	Yellow	B17
Purple	Yellow	B18
Pink	Yellow	B19
Orange	Yellow	B20
Brown	Yellow	B21
Green	Orange	B22
Light Green	Yellow	B23
Gray	Yellow	B24
Blue	Yellow	B25
Light Blue	Yellow	B26
White	Pink	B27
NC		B28

Color of insulator	Color of dot	Connector No.
White	-	A1
Black	-	A2
Yellow	-	A3
Red	-	A4
Purple	-	A5
Pink	-	A6
Orange	-	A7
Brown	-	A8
Green	-	A9
Light Green	-	A10
Gray	-	A11
Blue	-	A12
Light Blue	-	A13
White	Yellow	A14
Black	Yellow	A15
Yellow	Black	A16
Red	Black	A17
Purple	Black	A18
Pink	Black	A19
Orange	Black	A20
Brown	Black	A21
Green	Black	A22
Light Green	Black	A23
Gray	Black	A24
Blue	Black	A25
Light Blue	Black	A26
White	Purple	A27
NC		A28

CN4 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
20	Pink	Black
19	Pink	Yellow
18	Orange	Black
17	Orange	Yellow
16	Brown	Black
15	Brown	Yellow
14	Green	Black
13	Green	Orange
12	Light Green	Black
11	Light Green	Yellow
10	Gray	Black
9	Gray	Yellow
8	Blue	Black
7	Blue	Yellow
6	Light Blue	Black
5	Light Blue	Yellow
4	White	Purple
3		NC
2		NC
1	White	Pink

CN 3 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
20	Light Green	-
19	Light Green	White
18	Gray	-
17	Gray	White
16	Blue	-
15	Blue	White
14	Light Blue	-
13	Light Blue	White
12	White	Yellow
11	White	Red
10	Black	Yellow
9	Black	Orange
8	Yellow	Black
7	Yellow	Red
6	Red	Black
5	Red	Yellow
4	Purple	Black
3		NC
2		NC
1	Purple	Yellow

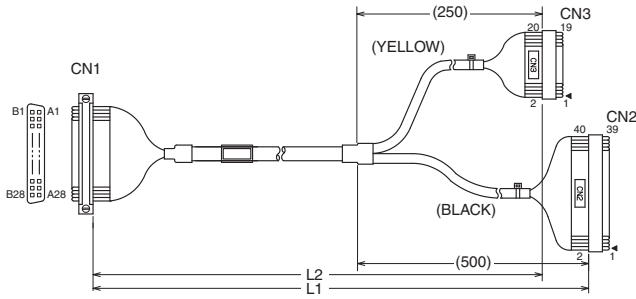
CN 2 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
20	White	-
19	White	Black
18	Black	-
17	Black	White
16	Yellow	-
15	Yellow	Gray
14	Red	-
13	Red	White
12	Purple	-
11	Purple	White
10	Pink	-
9	Pink	White
8	Orange	-
7	Orange	White
6	Brown	-
5	Brown	White
4	Green	-
3		NC
2		NC
1	Green	White

**XW2Z-□□□□CK-L0□**

**Connectors: One 56-pin FCN Connector to One 40-pin MIL Connector, plus One 20-pin MIL Connector**

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0150CK-L01	1.5	1.25
	XW2Z-0150CK-L02	1.5	1.25
	XW2Z-0200CK-L01	2	1.75
	XW2Z-0200CK-L02	2	1.75



**Wiring Diagram**

XW2Z-0150CK-L01, XW2Z-0200CK-L01

CN 1 : FCN-367J056-AU/FW

Color of insulator	Color of dot	Connector No.
White	Black	B1
Black	White	B2
Yellow	Gray	B3
Red	White	B4
Purple	White	B5
Pink	White	B6
Orange	White	B7
Brown	White	B8
Green	White	B9
Light Green	White	B10
Gray	White	B11
Blue	White	B12
Light Blue	White	B13
White	Red	B14
Black	Orange	B15
Yellow	Red	B16
Red	Yellow	B17
Purple	Yellow	B18
Pink	Yellow	B19
Orange	Yellow	B20
Brown	Yellow	B21
Green	Orange	B22
Light Green	Yellow	B23
Gray	Yellow	B24
Blue	Yellow	B25
Light Blue	Yellow	B26
White	Pink	B27
NC		B28

CN3 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	Pink	Black
2	Pink	Yellow
3	Orange	Black
4	Orange	Yellow
5	Brown	Black
6	Brown	Yellow
7	Green	Black
8	Green	Orange
9	Light Green	Black
10	Light Green	Yellow
11	Gray	Black
12	Gray	Yellow
13	Blue	Black
14	Blue	Yellow
15	Light Blue	Black
16	Light Blue	Yellow
17	White	Purple
18	White	Pink
19		NC
20		NC

CN2 : XG4M-4030-T

Connector No.	Color of insulator	Color of dot
▶ 1	White	-
2	White	Black
3	Black	-
4	Black	White
5	Yellow	-
6	Yellow	Gray
7	Red	-
8	Red	White
9	Purple	-
10	Purple	White
11	Pink	-
12	Pink	White
13	Orange	-
14	Orange	White
15	Brown	-
16	Brown	White
17	Green	-
18	Green	White
19		NC
20		NC
21	Light Green	-
22	Light Green	White
23	Gray	-
24	Gray	White
25	Blue	-
26	Blue	White
27	Light Blue	-
28	Light Blue	White
29	White	Yellow
30	White	Red
31	Black	Yellow
32	Black	Orange
33	Yellow	Black
34	Yellow	Red
35	Red	Black
36	Red	Yellow
37	Purple	Black
38	Purple	Yellow
39		NC
40		NC

Color of insulator	Color of dot	Connector No.
White	-	A1
Black	-	A2
Yellow	-	A3
Red	-	A4
Purple	-	A5
Pink	-	A6
Orange	-	A7
Brown	-	A8
Green	-	A9
Light Green	-	A10
Gray	-	A11
Blue	-	A12
Light Blue	-	A13
White	Yellow	A14
Black	Yellow	A15
Yellow	Black	A16
Red	Black	A17
Purple	Black	A18
Pink	Black	A19
Orange	Black	A20
Brown	Black	A21
Green	Black	A22
Light Green	Black	A23
Gray	Black	A24
Blue	Black	A25
Light Blue	Black	A26
White	Purple	A27
NC		A28

**Wiring Diagram**

XW2Z-0150CK-L02, XW2Z-0200CK-L02

CN 1 : FCN-367J056-AU/FW

Color of insulator	Color of dot	Connector No.
White	Black	B1
Black	White	B2
Yellow	Gray	B3
Red	White	B4
Purple	White	B5
Pink	White	B6
Orange	White	B7
Brown	White	B8
Green	White	B9
Light Green	White	B10
Gray	White	B11
Blue	White	B12
Light Blue	White	B13
White	Red	B14
Black	Orange	B15
Yellow	Red	B16
Red	Yellow	B17
Purple	Yellow	B18
Pink	Yellow	B19
Orange	Yellow	B20
Brown	Yellow	B21
Green	Orange	B22
Light Green	Yellow	B23
Gray	Yellow	B24
Blue	Yellow	B25
Light Blue	Yellow	B26
White	Pink	B27
NC		B28

CN3 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	White	Pink
2		NC
3		NC
4	White	Purple
5	Light Blue	Yellow
6	Light Blue	Black
7	Blue	Yellow
8	Blue	Black
9	Gray	Yellow
10	Gray	Black
11	Light Green	Yellow
12	Light Green	Black
13	Green	Orange
14	Green	Black
15	Brown	Yellow
16	Brown	Black
17	Orange	Yellow
18	Orange	Black
19	Pink	Yellow
20	Pink	Black

CN2 : XG4M-4030-T

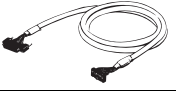
Color of insulator	Color of dot	Connector No.
White	-	A1
Black	-	A2
Yellow	-	A3
Red	-	A4
Purple	-	A5
Pink	-	A6
Orange	-	A7
Brown	-	A8
Green	-	A9
Light Green	-	A10
Gray	-	A11
Blue	-	A12
Light Blue	-	A13
White	Yellow	A14
Black	Yellow	A15
Yellow	Black	A16
Red	Black	A17
Purple	Black	A18
Pink	Black	A19
Orange	Black	A20
Brown	Black	A21
Green	Black	A22
Light Green	Black	A23
Gray	Black	A24
Blue	Black	A25
Light Blue	Black	A26
White	Purple	A27
NC		A28

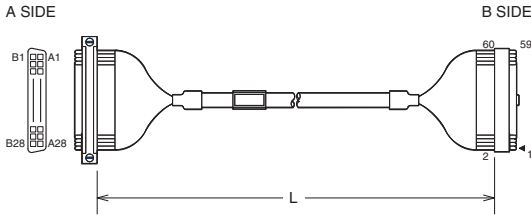
CN2 : XG4M-4030-T

Connector No.	Color of insulator	Color of dot
▶ 1	Green	White
2		NC
3		NC
4	Green	-
5	Brown	White
6	Brown	-
7	Orange	White
8	Orange	-
9	Pink	White
10	Pink	-
11	Purple	White
12	Purple	-
13	Red	White
14	Red	-
15	Yellow	Gray
16	Yellow	-
17	Black	White
18	Black	-
19	White	Black
20	White	-
21	Purple	Yellow
22		NC
23		NC
24	Purple	Black
25	Red	Yellow
26	Red	Black
27	Yellow	Red
28	Yellow	Black
29	Black	Orange
30	Black	Yellow
31	White	Red
32	White	Yellow
33	Light Blue	White
34	Light Blue	-
35	Blue	White
36	Blue	-
37	Gray	White
38	Gray	-
39	Light Green	White
40	Light Green	-

## XW2Z-□□□□CG-L

Connectors: One 56-pin FCN Connector to One 60-pin MIL Connector

Appearance	Models	Cable length L (m)
	XW2Z-0100CG-L	1
	XW2Z-0200CG-L	2
	XW2Z-0300CG-L	3

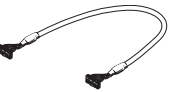


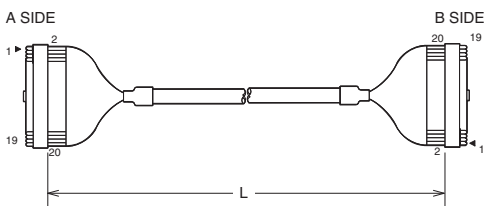
### Wiring Diagram

Connector No.	Cable core No.	Color of insulator	Color of dot	Connector No.
A1	1	White	—	▶ 1
B1		White	Black	2
A2	2	Black	—	3
B2		Black	White	4
A3	3	Yellow	—	5
B3		Yellow	Gray	6
A4	4	Red	—	7
B4		Red	White	8
A5	5	Purple	—	9
B5		Purple	White	10
A6	6	Pink	—	11
B6		Pink	White	12
A7	7	Orange	—	13
B7		Orange	White	14
A8	8	Brown	—	15
B8		Brown	White	16
A9	9	Green	—	17
B9		Green	White	18
A10	10	Light Green	—	19
B10		Light Green	White	20
A11	11	Gray	—	21
B11		Gray	White	22
A12	12	Blue	—	23
B12		Blue	White	24
A13	13	Light Blue	—	25
B13		Light Blue	White	26
A14	14	White	Yellow	27
B14		White	Red	28
A15	15	Black	Yellow	29
B15		Black	Orange	30
A16	16	Yellow	Black	31
B16		Yellow	Red	32
A17	17	Red	Black	33
B17		Red	Yellow	34
A18	18	Purple	Black	35
B18		Purple	Yellow	36
A19	19	Pink	Black	37
B19		Pink	Yellow	38
A20	20	Orange	Black	39
B20		Orange	Yellow	40
A21	21	Brown	Black	41
B21		Brown	Yellow	42
A22	22	Green	Black	43
B22		Green	Orange	44
A23	23	Light Green	Black	45
B23		Light Green	Yellow	46
A24	24	Gray	Black	47
B24		Gray	Yellow	48
A25	25	Blue	Black	49
B25		Blue	Yellow	50
A26	26	Light Blue	Black	51
B26		Light Blue	Yellow	52
A27	27	White	Purple	53
B27		White	Pink	54
A28	28	NC	—	55
B28		NC	—	56
—	29	NC	—	57
—		NC	—	58
—	30	NC	—	59
—		NC	—	60

## XW2Z-□□□□DD-L

Connectors: One 20-pin MIL Connector to One 20-pin MIL Connector

Appearance	Models	Cable length L (m)
	XW2Z-0050DD-L	0.5
	XW2Z-0100DD-L	1
	XW2Z-0200DD-L	2



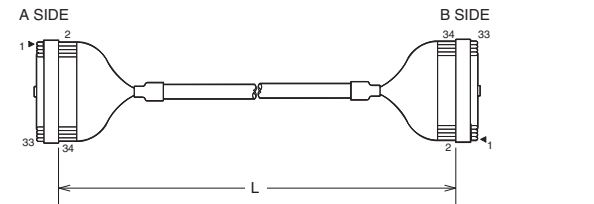
### Wiring Diagram

Connector No.	Wire pair No.	Color of insulator	Color of dot	Connector No.
▶ 1	1	White	—	▶ 1
2		White	Black	2
3	2	Black	—	3
4		Black	White	4
5	3	Yellow	—	5
6		Yellow	Gray	6
7	4	Red	—	7
8		Red	White	8
9	5	Purple	—	9
10		Purple	White	10
11	6	Pink	—	11
12		Pink	White	12
13	7	Orange	—	13
14		Orange	White	14
15	8	Brown	—	15
16		Brown	White	16
17	9	Green	—	17
18		Green	White	18
19	10	Light Green	—	19
20		Light Green	White	20

**XW2Z-□□□□EE-L**

Connectors: One 34-pin MIL Connector to One 34-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-0050EE-L	0.5
	XW2Z-0100EE-L	1
	XW2Z-0150EE-L	1.5
	XW2Z-0200EE-L	2
	XW2Z-0300EE-L	3
	XW2Z-0500EE-L	5
	XW2Z-0700EE-L	7
	XW2Z-1000EE-L	10



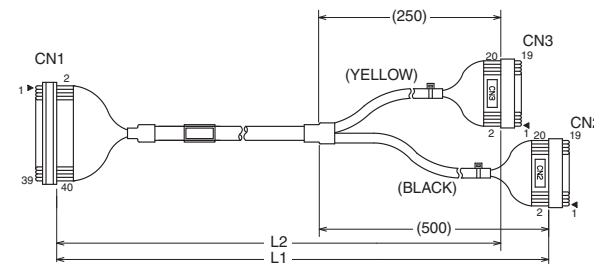
**Wiring Diagram**

Connector No.	Wire pair No.	Color of insulator	Color of dot	Connector No.
▶ 1		White	—	▶ 1
2	1	White	Black	2
3		Black	—	3
4	2	Black	White	4
5		Yellow	—	5
6	3	Yellow	Gray	6
7		Red	—	7
8	4	Red	White	8
9		Purple	—	9
10	5	Purple	White	10
11		Pink	—	11
12	6	Pink	White	12
13		Orange	—	13
14	7	Orange	White	14
15		Brown	—	15
16	8	Brown	White	16
17		Green	—	17
18	9	Green	White	18
19		Light Green	—	19
20	10	Light Green	White	20
21		Gray	—	21
22	11	Gray	White	22
23		Blue	—	23
24	12	Blue	White	24
25		Light Blue	—	25
26	13	Light Blue	White	26
27		White	Yellow	27
28	14	White	Red	28
29		Black	Yellow	29
30	15	Black	Orange	30
31		Yellow	Black	31
32	16	Yellow	Red	32
33		Red	Black	33
34	17	Red	Yellow	34

**XW2Z-□□□□FH-L01**

Connectors: One 40-pin MIL Connector to Two 20-pin MIL Connectors

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0075FH-L01	0.75	0.5
	XW2Z-0100FH-L01	1	0.75
	XW2Z-0200FH-L01	2	1.75
	XW2Z-0300FH-L01	3	2.75
	XW2Z-0500FH-L01	5	4.75



**Wiring Diagram**

CN 1 : XG4M-4030-T

Color of insulator	Color of dot	Connector No.
Orange	Yellow	40
Orange	Black	39
Pink	Yellow	38
Pink	Black	37
Purple	Yellow	36
Purple	Black	35
Red	Yellow	34
Red	Black	33
Yellow	Red	32
Yellow	Black	31
Black	Orange	30
Black	Yellow	29
White	Red	28
White	Yellow	27
Light Blue	White	26
Light Blue	—	25
Blue	White	24
Blue	—	23
Gray	White	22
Gray	—	21

CN2 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
▶ 1	Orange	Yellow
2	Orange	Black
3	Pink	Yellow
4	Pink	Black
5	Purple	Yellow
6	Purple	Black
7	Red	Yellow
8	Red	Black
9	Yellow	Red
10	Yellow	Black
11	Black	Orange
12	Black	Yellow
13	White	Red
14	White	Yellow
15	Light Blue	White
16	Light Blue	—
17	Blue	White
18	Blue	—
19	Gray	White
20	Gray	—

CN 3 : XG4M-2030-T

Color of insulator	Color of dot	Connector No.
Light Green	White	20
Light Green	—	19
Green	White	18
Green	—	17
Brown	White	16
Brown	—	15
Orange	White	14
Orange	—	13
Pink	White	12
Pink	—	11
Purple	White	10
Purple	—	9
Red	White	8
Red	—	7
Yellow	Gray	6
Yellow	—	5
Black	White	4
Black	—	3
White	Black	2
White	—	▶ 1

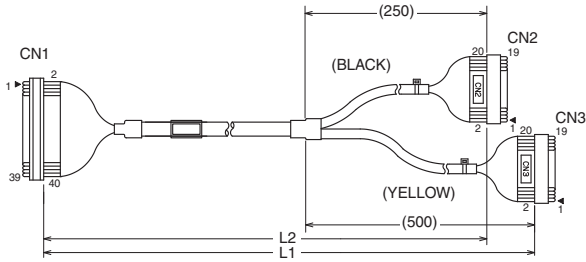
Connector No.	Color of insulator	Color of dot
▶ 1	Light Green	White
2	Light Green	—
3	Green	White
4	Green	—
5	Brown	White
6	Brown	—
7	Orange	White
8	Orange	—
9	Pink	White
10	Pink	—
11	Purple	White
12	Purple	—
13	Red	White
14	Red	—
15	Yellow	Gray
16	Yellow	—
17	Black	White
18	Black	—
19	White	Black
20	White	—

# XW2Z

## XW2Z-□□□□FH-L02

Connectors: One 40-pin MIL Connector to Two 20-pin MIL Connectors

Appearance	Models	Cable length L (m)	
		L1	L2
	XW2Z-0075FH-L02	0.75	0.5
	XW2Z-0100FH-L02	1	0.75
	XW2Z-0200FH-L02	2	1.75
	XW2Z-0300FH-L02	3	2.75
	XW2Z-0500FH-L02	5	4.75



### Wiring Diagram

CN 1 : XG4M-4030-T

Color of insulator	Color of dot	Connector No.
Orange	Yellow	40
Orange	Black	39
Pink	Yellow	38
Pink	Black	37
Purple	Yellow	36
Purple	Black	35
Red	Yellow	34
Red	Black	33
Yellow	Red	32
Yellow	Black	31
Black	Orange	30
Black	Yellow	29
White	Red	28
White	Yellow	27
Light Blue	White	26
Light Blue	-	25
Blue	White	24
Blue	-	23
Gray	White	22
Gray	-	21

CN2 : XG4M-2030-T

Connector No.	Color of insulator	Color of dot
20	Orange	Yellow
19	Orange	Black
18	Pink	Yellow
17	Pink	Black
16	Purple	Yellow
15	Purple	Black
14	Red	Yellow
13	Red	Black
12	Yellow	Red
11	Yellow	Black
10	Black	Orange
9	Black	Yellow
8	White	Red
7	White	Yellow
6	Light Blue	White
5	Light Blue	-
4	Blue	White
3	Blue	-
2	Gray	White
▶ 1	Gray	-

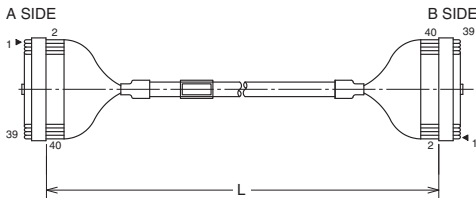
CN 3 : XG4M-2030-T

Color of insulator	Color of dot	Connector No.	Connector No.	Color of insulator	Color of dot
Light Green	White	20	20	Light Green	White
Light Green	-	19	19	Light Green	-
Green	White	18	18	Green	White
Green	-	17	17	Green	-
Brown	White	16	16	Brown	White
Brown	-	15	15	Brown	-
Orange	White	14	14	Orange	White
Orange	-	13	13	Orange	-
Pink	White	12	12	Pink	White
Pink	-	11	11	Pink	-
Purple	White	10	10	Purple	White
Purple	-	9	9	Purple	-
Red	White	8	8	Red	White
Red	-	7	7	Red	-
Yellow	Gray	6	6	Yellow	Gray
Yellow	-	5	5	Yellow	-
Black	White	4	4	Black	White
Black	-	3	3	Black	-
White	Black	2	2	White	Black
White	-	▶ 1	▶ 1	White	-

## XW2Z-□□□□FF-L

Connectors: One 40-pin MIL Connector to One 40-pin MIL Connector

Appearance	Models	Cable length L (m)
	XW2Z-0030FF-L	0.3
	XW2Z-0050FF-L	0.5
	XW2Z-0100FF-L	1
	XW2Z-0150FF-L	1.5
	XW2Z-0200FF-L	2
	XW2Z-0300FF-L	3
	XW2Z-0500FF-L	5
	XW2Z-0700FF-L	7
XW2Z-1000FF-L	10	



### Wiring Diagram

Connector No.	Wire pair No.	Color of insulator	Color of dot	Connector No.
▶ 1	1	White	-	▶ 1
2	1	White	Black	2
3	2	Black	-	3
4	2	Black	White	4
5	3	Yellow	-	5
6	3	Yellow	Gray	6
7	4	Red	-	7
8	4	Red	White	8
9	5	Purple	-	9
10	5	Purple	White	10
11	6	Pink	-	11
12	6	Pink	White	12
13	7	Orange	-	13
14	7	Orange	White	14
15	8	Brown	-	15
16	8	Brown	White	16
17	9	Green	-	17
18	9	Green	White	18
19	10	Light Green	-	19
20	10	Light Green	White	20
21	11	Gray	-	21
22	11	Gray	White	22
23	12	Blue	-	23
24	12	Blue	White	24
25	13	Light Blue	-	25
26	13	Light Blue	White	26
27	14	White	Yellow	27
28	14	White	Red	28
29	15	Black	Yellow	29
30	15	Black	Orange	30
31	16	Yellow	Black	31
32	16	Yellow	Red	32
33	17	Red	Black	33
34	17	Red	Yellow	34
35	18	Purple	Black	35
36	18	Purple	Yellow	36
37	19	Pink	Black	37
38	19	Pink	Yellow	38
39	20	Orange	Black	39
40	20	Orange	Yellow	40



## Safety Precautions

Precautions for Correct Use

● **Bending Radius of Connecting Cables**

- To prevent damaging the Connecting Cables, use the following minimum bending radii as guidelines.

XW2Z-□□□□□□-□□□

End of model number	Minimum bending radius
AD-L	54mm
DD-L	
BH-L01, BH-L02	66mm
BF-L	
EE-L	
FH-L01, FH-L02	
FF-L	
CJ-L01, CJ-L02	80mm
CK-L01, CK-L02	
CG-L	



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