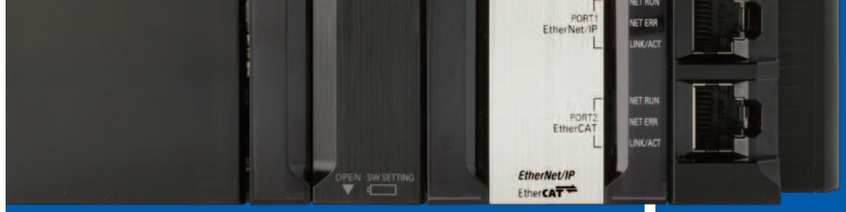
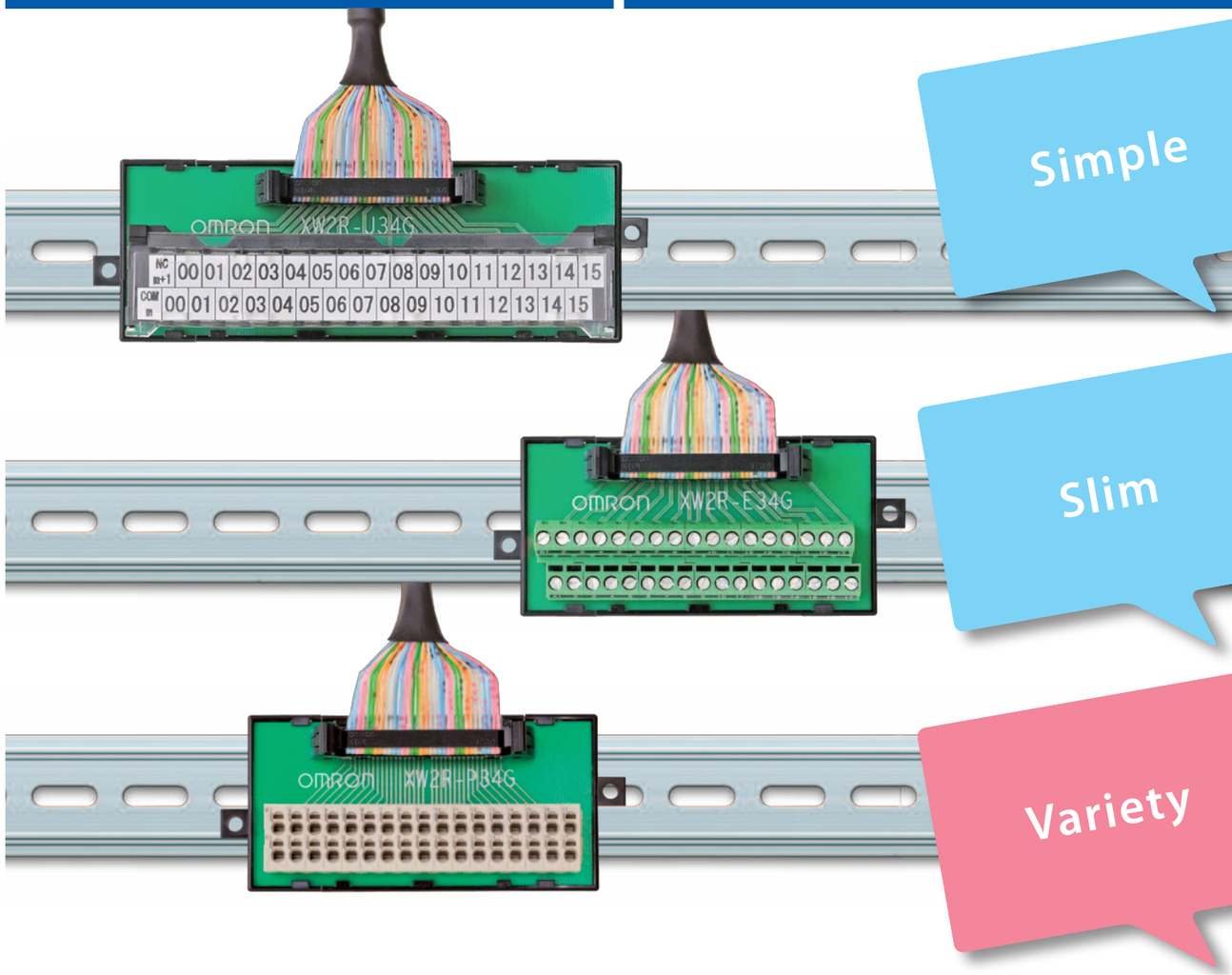


OMRON

Connecting to Controllers..



...Is Now Even Smarter

Connector-Terminal Block Conversion Units

XW2R Series

OMRON Corporation **Industrial Automation Company**
Tokyo, JAPAN
Contact: www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69-2132 JD Hoofddorp
The Netherlands
Tel: (31)2356-81-300/Fax: (31)2356-81-388

OMRON ELECTRONICS LLC
One Commerce Drive Schaumburg,
IL 60173-5302 U.S.A.
Tel: (1) 847-843-7900/Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.
No. 438A Alexandra Road # 05-05/08 (Lobby 2),
Alexandra Technopark,
Singapore 119967
Tel: (65) 6835-3011/Fax: (65) 6835-2711

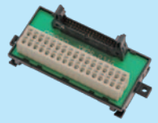
OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-5037-2222/Fax: (86) 21-5037-2200

Authorized Distributor:

Cat. No. G077-E1-02 1112 (1012) (W)

New Series
XW2R

Product Lineup

Type	PLCs			General-purpose devices		
Features	Specialized wiring pattern for PLC		Minimized size with required number of poles	Wide variation of poles		
Connection on process side	Phillips screw	Slotted screw (rise up)	Push-in spring	Phillips screw	Slotted screw (rise up)	Push-in spring
Model (For OMRON PLC)	XW2R-J34G-C□	XW2R-E34G-C□	XW2R-P34G-C□	XW2R-J□□□□-T□	XW2R-E□□□□-T□	XW2R-P□□□□-T□
Model (For Mitsubishi PLC)	XW2R-J34G-M□	XW2R-E34G-M□	XW2R-P34G-M□			
Appearance						

Specialized wiring pattern for OMRON PLCs and Mitsubishi PLCs

Minimized size with required number of poles

Wide variation of poles

To page 13 for details on models for general-purpose devices

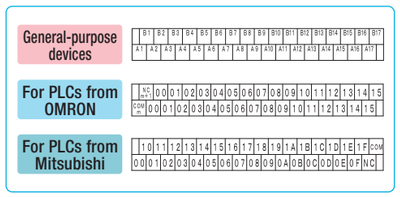
To page 4 for details on models for OMRON PLCs

To page 9 for details on models for Mitsubishi PLCs

Smart Features

PLC Connecting type

- Wiring patterns that are specifically designed for PLCs reduce the work required to check signal layout.
- Terminal block signal labels give the PLC addresses.

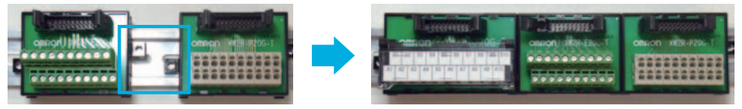


General-purpose devices

- More model variations are scheduled for future development, such as models with FCN, MR, or MDR connectors in addition to the current models with MIL connectors.

All Models

- Push-in terminals simplify wiring and make the Terminal Blocks even easier to use.(In comparison to the OMRON XW2F.)
- The terminal arrangement enables smoother wiring work.
- Mount to DIN Track or with screws.
- Common design that can also be customized.
- 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 XW2R Units to each other, the ribs do not interfere so there is no gap between the Units.



Model List

XW2R - □ 34G - □□

Wiring method	
J	Phillips screw
E	Slotted screw (rise up)
P	Push-in spring

Mounted Connector type	
G	MIL (XG4A)

PLC type	
C1	Refer to the following table for details.
C2	
C3	
C4	

Models for OMRON PLCs

PLC Type	I/O	I/O Points	I/O Unit Model	Connecting cables
C1	Input	32	CJ1W-ID231	XW2Z-□□□B 32-point Unit: 1 Cable 64-point Unit: 2 Cables
			CS1W-ID231	
			C200H-ID216	
			C200H-ID218	
			CQM1-ID112	
			CQM1-ID213	
			CQM1-ID214	
		64	CJ1W-ID261	
			CS1W-ID261	
			C200H-ID217	
			C200H-ID219	
			C200H-ID111	
			C500-ID114	
			C500-ID219	
	I/O	32	CJ1W-MD261 (inputs)	
			CS1W-MD261 (inputs)	
			CS1W-MD262 (inputs)	
			CS1W-MD561 (inputs)	
C2	Input	32	CJ1W-ID232	XW2Z-□□□K 32-point Unit: 1 Cable 64-point Unit: 2 Cables
			CJ1W-ID233	
		64	CJ1W-ID262	
	I/O	32	CJ1W-MD263 (inputs)	
			CJ1W-MD563 (inputs)	
C3	Output	32	CJ1W-OD231	XW2Z-□□□B 32-point Unit: 1 Cable 64-point Unit: 2 Cables
			CS1W-OD231	
			CS1W-OD232	
			C200H-OD218	
			CQM1-OD213	
		64	CJ1W-OD261	
			CS1W-OD261	
			CS1W-OD262	
			C200H-OD219	
			C500-OD213	
	I/O	32	CJ1W-MD261 (outputs)	
			CS1W-MD261 (outputs)	
			CS1W-MD262 (outputs)	
			CS1W-MD561 (outputs)	
C4	Output	32	CJ1W-OD232	XW2Z-□□□K 32-point Unit: 1 Cable 64-point Unit: 2 Cables
			CJ1W-OD233	
			CJ1W-OD234	
		64	CJ1W-OD262	
			CJ1W-OD263	
	I/O	32	CJ1W-MD263 (outputs)	
			CJ1W-MD563 (outputs)	

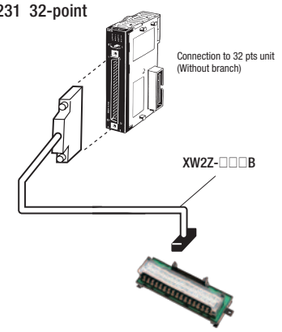
*Connection is not possible to all OMRON PLC Units.
*□□□ is replaced by the cable length.
*There is one common for each 32 points.
*Refer to page 16-17 for information on Connecting Cables.

Models for Connection to OMRON PLCs

Connection Examples

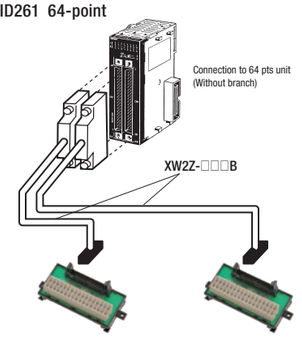
■32-point Input Unit or Output Unit

CJ1W-ID231 32-point



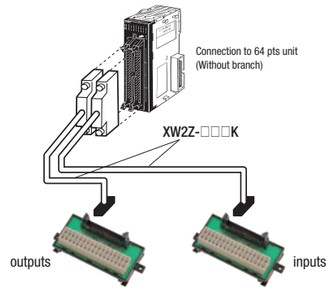
■64-point Input Unit or Output Unit

CJ1W-ID261 64-point



■64-point Output Unit

CJ1W-MD563 IN 32 Points,OUT 32 Points



Phillips screw

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-J34G-C1	130.7	140.2
	32 (34)	XW2R-J34G-C2	130.7	140.2
	32 (34)	XW2R-J34G-C3	130.7	140.2
	32 (34)	XW2R-J34G-C4	130.7	140.2

Ratings and Specifications

Rated current		0.5A/signal,4A/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 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (twisted or solid wires)
	Stripped length	9 mm

Details on Crimp Terminals

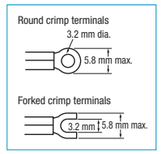
● **Wiring Terminal Blocks**

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

● **Terminal Screw Tightening Torque**

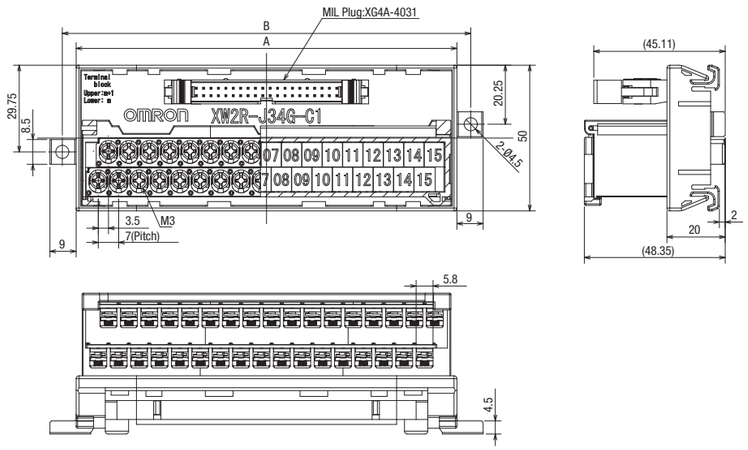
Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

Applicable crimp terminals		Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16(0.30 to 1.25 mm²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16(0.30 to 1.25 mm²)

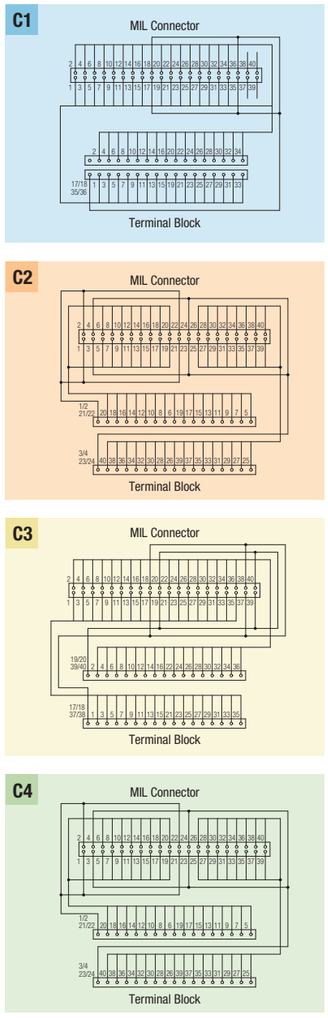


Dimensions

(Unit:mm)



Wiring Diagram



Label Contents

For C1 and C2

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

For C3 and C4

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

Slotted screw (rise up)

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-E34G-C1	98.5	108
	32 (34)	XW2R-E34G-C2	98.5	108
	32 (34)	XW2R-E34G-C3	98.5	108
	32 (34)	XW2R-E34G-C4	98.5	108

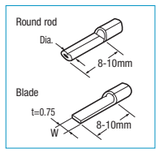
Ratings and Specifications

Rated current		0.5A/signal,4A/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 22 to 16 (rod terminals) AWG 26 to 16 (twisted or solid wires)
	Stripped length	7 mm

Details on Crimp Terminals

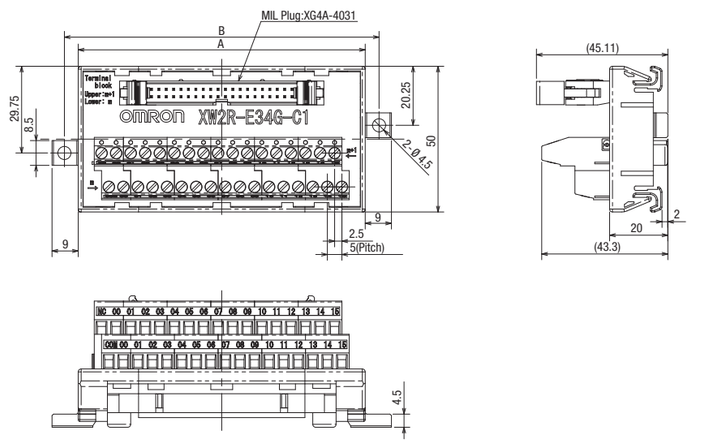
Applicable crimp terminals		Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm²)
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm²)
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm²)

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

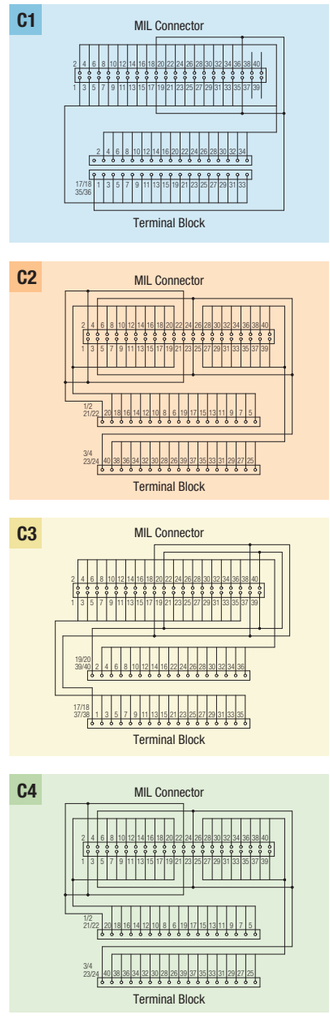


Dimensions

(Unit:mm)



Wiring Diagram



Label Contents

For C1 and C2

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

For C3 and C4

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

Models for Connection to OMRON PLCs

Push-in spring

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-P34G-C1	98.5	108
	32 (34)	XW2R-P34G-C2	98.5	108
	32 (34)	XW2R-P34G-C3	98.5	108
	32 (34)	XW2R-P34G-C4	98.5	108

Ratings and Specifications

Rated current		0.5A/signal,4A/common
Rated voltage		24VDC
Insuration resistance		100MΩ min.(at 500VDC)
Dielectric strength		500VAC for 1 min
Ambient operating temperature		0 to 55°C
Applicable wires	Applicable wire sizes	AWG 24 to 14 (rod terminals),AWG 28 to 14 (twisted or solid wires)(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

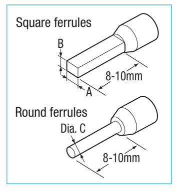
● Applicable Ferrules

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

Square ferrules	Dimension A (Width)	2.7mm max.	The cross-sectional area after crimping must be 4.8 mm² or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

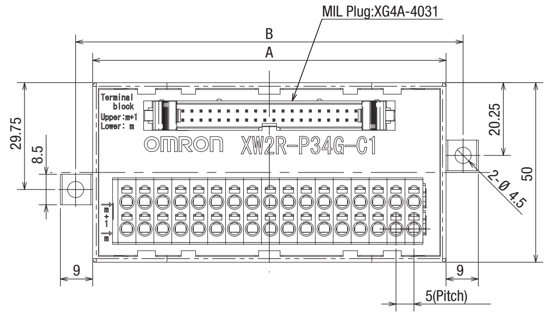
- Special Tools

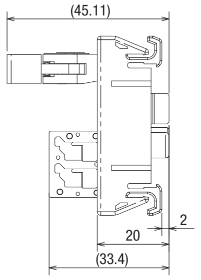
Model	XW4Z-00B

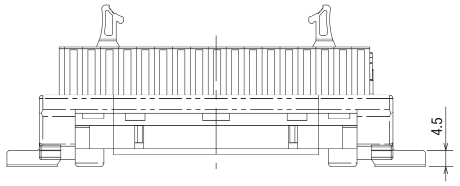


Dimensions

(Unit:mm)

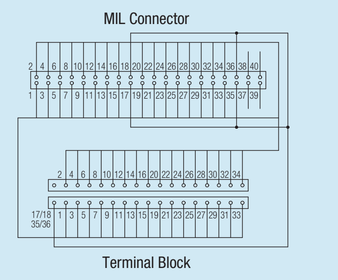




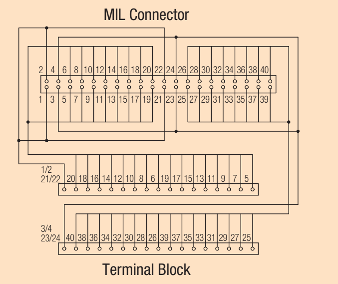


Wiring Diagram

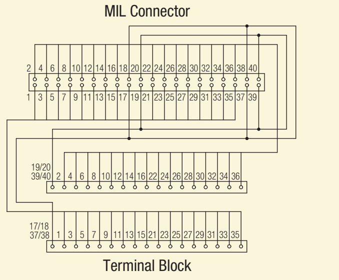
C1



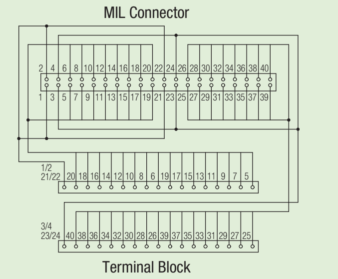
C2



C3



C4



Label Contents

For **C1** and **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

For **C3** and **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 Mitsubishi PLCs

Model List

XW2R-□34G-□□

Wiring method	
J	Phillips screw
E	Slotted screw (rise up)
P	Push-in spring

Mounted Connector type	
G	MIL (XG4A)

PLC type	
M1	Refer to the following table for details.
M2	

Models for Connection to Mitsubishi PLCs

PLC Type	I/O Points	Mitsubishi PLC Module model	Connecting cables
M1	32	LX41C4	XW2Z-□□□B: 1 cable
		QX41	
		QX41-S1	
		QX41-S2	
		QX71	
		QH42P (input)	
		QX41Y41P (input)	
		A1SX41-S1	
		A1SX41-S2	
		A1SX71	
		A1SH42 (input)	
		A1SH42-S1 (input)	
	64	LX42C4	XW2Z-□□□B: 2 cables
		QX42	
		QX42-S1	
		QX82	
		QX82-S1	
		A1SX42-S1	
		A1SX42-S2	
		A1SX82-S	
M2	32	LY41NT1P	XW2Z-□□□B: 1 cable
		QY41P	
		QY71	
		QH42P (output)	
		QY41Y41P (output)	
		A1SY41-S1	
		A1SY41P	
		A1SY42P	
		A1SY71	
	64	A1SH42 (output)	XW2Z-□□□B: 2 cables
		A1SH42-S1 (output)	
		LY42NT1P	
		QY42P	
		A1SY42	

*□□□ is replaced by the cable length.
*Refer to page 16 for information on Connecting Cables.

Phillips screw

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-J34G-M1	130.7	140.2
	32 (34)	XW2R-J34G-M2	130.7	140.2

Ratings and Specifications

Rated current		0.5A/signal,2A/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 22 to 16 (round or forked crimp terminals) AWG 26 to 16 (twisted or solid wires)
	Stripped length	9 mm

Details on Crimp Terminals

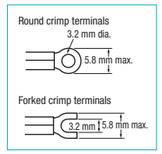
● **Wiring Terminal Blocks**

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

● **Terminal Screw Tightening Torque**

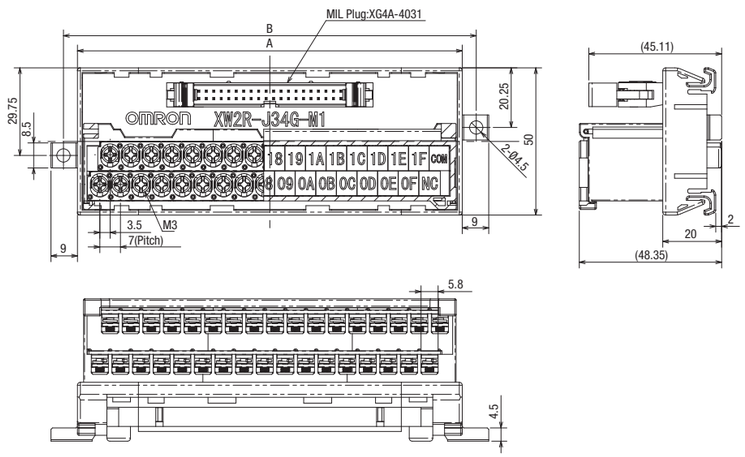
Use a tightening torque of 0.5 N·m when connecting wires or crimp terminals to the terminal block.

Applicable crimp terminals		Applicable wires
Round crimp terminals	1.25-3	AWG 22 to 16(0.30 to 1.25 mm²)
Forked crimp terminals	1.25Y-3	AWG 22 to 16(0.30 to 1.25 mm²)



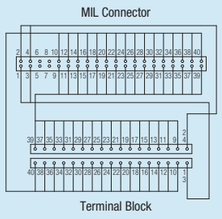
Dimensions

(Unit:mm)

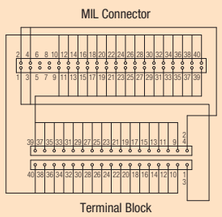


Wiring Diagram

M1



M2



Label Contents

For 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

For 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

Slotted screw (rise up)

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-E34G-M1	98.5	108
	32 (34)	XW2R-E34G-M2	98.5	108

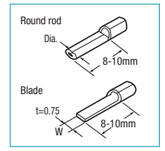
Ratings and Specifications

Rated current		0.5A/signal,2A/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 22 to 16 (rod terminals) AWG 26 to 16 (twisted or solid wires)
	Stripped length	7 mm

Details on Crimp Terminals

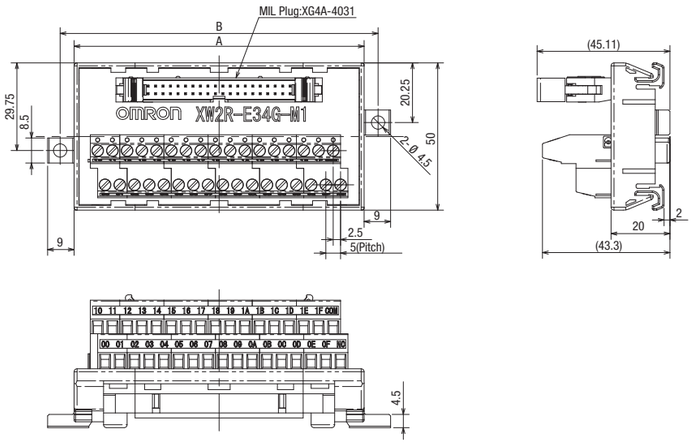
Applicable crimp terminals		Applicable wires
Rod	TC-05 Dia. = 1	AWG22 to AWG18 (0.30 to 0.75 mm²)
	TC-1.25S Dia. = 1.5	AWG22 to AWG16 (0.30 to 1.25 mm²)
Blade	BT1.25-9-1 BT1.25-10-1 W = 2.2	AWG22 to AWG16 (0.30 to 1.25 mm²)

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



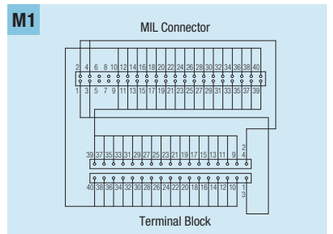
Dimensions

(Unit:mm)

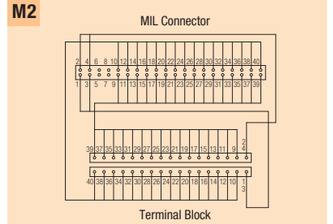


Wiring Diagram

M1



M2



Label Contents

For 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

For 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 Connection to Mitsubishi PLCs

Push-in spring

Appearance	I/O Points (number of poles)	Model	Dimension A(mm)	Dimension B(mm)
	32 (34)	XW2R-P34G-M1	98.5	108
	32 (34)	XW2R-P34G-M2	98.5	108

Ratings and Specifications

Rated current		0.5A/signal,2A/common
Rated voltage		24VDC
Insuration resistance		100MΩ min.(at 500VDC)
Dielectric strength		500VAC for 1 min
Ambient operating temperature		0 to 55°C
Applicable wires	Applicable wire sizes	AWG 24 to 14 (rod terminals),AWG 28 to 14 (twisted or solid wires)(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

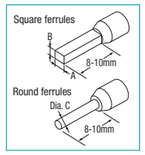
● Applicable Ferrules

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

Square ferrules	Dimension A (Width)	2.7mm max.	The cross-sectional area after crimping must be 4.8 mm² or less
	Dimension B (Height)	2 mm max.	
Round ferrules	Dimension C (Diameter)	2 mm dia. max. (after crimping)	

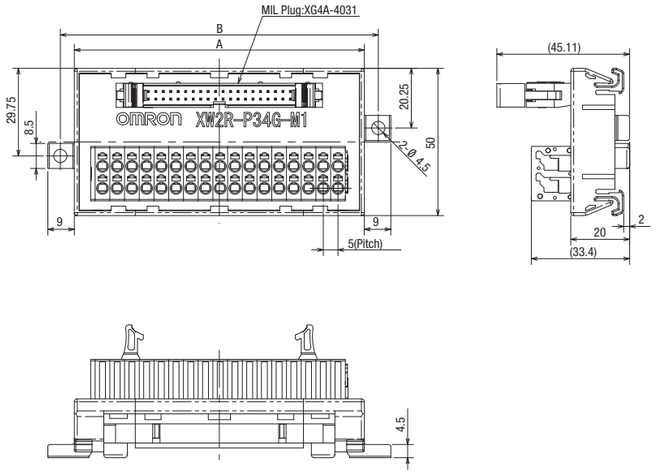
- Special Tools

Model	XW4Z-00B



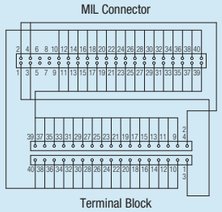
Dimensions

(Unit:mm)

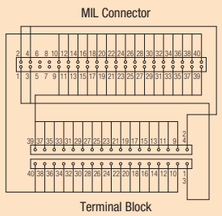


Wiring Diagram

M1



M2



Label Contents

For 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

For 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

General-purpose devices

Model List

XW2R - □ □ □ □ □ - T

Wiring method	
J	Phillips screw
E	Slotted screw (rise up)
P	Push-in spring
N	e-CON*

Number of poles
20
34
40
50
60

Mounted Connector type	
G	MIL (XG4A)
C	MIL (XG4C)*
F	FCN*
D	D-sub*
R	MR*
M	MDR*

Plug/Socket	
Blank	Plug (male)
R	Socket (female)*

*Scheduled for release soon.

Phillips screw

Appearance	number of poles	Model	Dimension A(mm)	Dimension B(mm)
	20	XW2R-J20G-T	81.7	91.2
	34	XW2R-J34G-T	130.7	140.2
	40	XW2R-J40G-T	151.7	161.2
	50	XW2R-J50G-T	186.7	196.2
	60	XW2R-J60G-T	221.7	231.2

Ratings and Specifications

Rated current	1A
Rated voltage	125VAC 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

*The details on crimp terminals are the same for the XW2R-J34G on page 6.

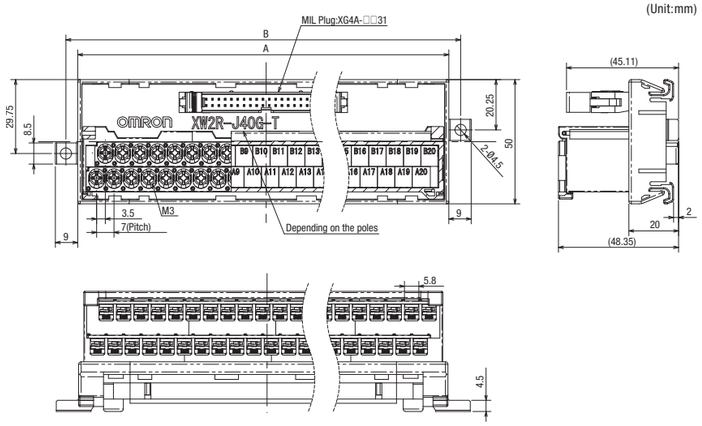
Label Contents

	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

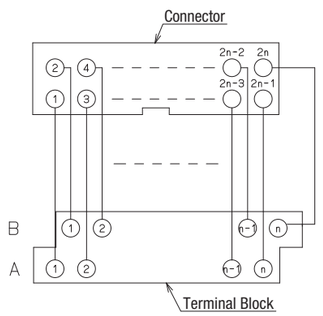
*The label contents for a Terminal Block with 34 poles are shown.

Dimensions

(Unit:mm)



Wiring Diagram



Slotted screw (rise up)

Appearance	number of poles	Model	Dimension A(mm)	Dimension B(mm)
	20	XW2R-E20G-T	64.4	73.9
	34	XW2R-E34G-T	98.5	108
	40	XW2R-E40G-T	113.5	123
	50	XW2R-E50G-T	138.5	148
	60	XW2R-E60G-T	163.5	173

Ratings and Specifications

Rated current	1A
Rated voltage	125VAC 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

*The details on crimp terminals are the same for the XW2R-E34G on page 7.

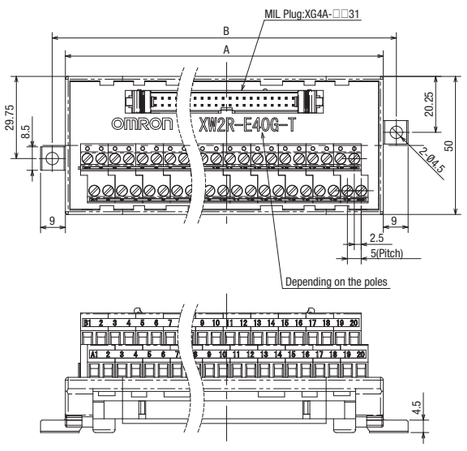
Label Contents

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

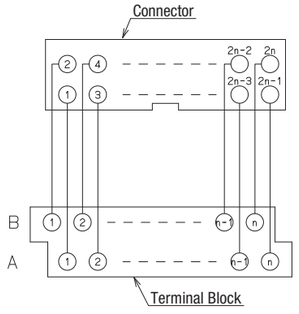
*The label contents for a Terminal Block with 34 poles are shown.

Dimensions

(Unit:mm)



Wiring Diagram



Push-in spring

Appearance	number of poles	Model	Dimension A(mm)	Dimension B(mm)
	20	XW2R-P20G-T	64.4	73.9
	34	XW2R-P34G-T	98.5	108
	40	XW2R-P40G-T	113.5	123
	50	XW2R-P50G-T	138.5	148
	60	XW2R-P60G-T	163.5	173

Ratings and Specifications

Rated current		1A
Rated voltage		125VAC 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 (rod terminals),AWG 28 to 14 (twisted or solid wires)(Outer diameter of insulation must be 4 mm max)
	Stripped length	AWG28-16: 8 to 10 mm, AWG14: 9 to 10 mm

*The details on crimp terminals are the same for the XW2R-P34G on page 8.

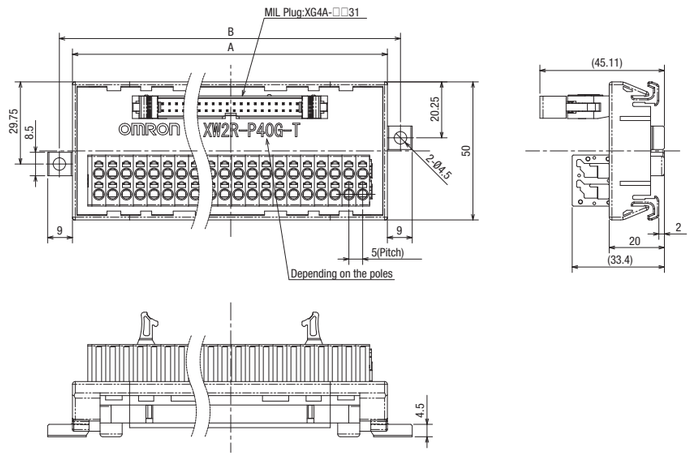
Label Contents

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	

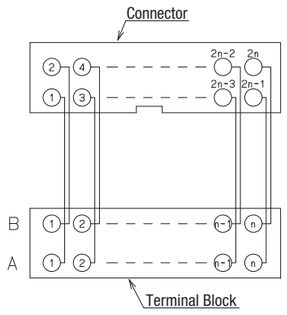
*The label contents for a Terminal Block with 34 poles are shown.

Dimensions

(Unit:mm)



Wiring Diagram



XW2Z

Appearance

Ratings and Specifications

Rated current	1A
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	–25 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-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
Crimp terminal	Forked crimp terminal			1.25 YAS 3.5 or the equivalent

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

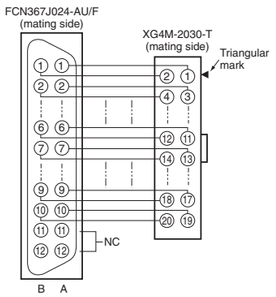
XW2Z-□□□A

Connectors: One 24-pin Connector Made by Fujitsu Component, Ltd. 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

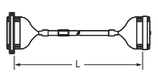


XW2Z-□□□B

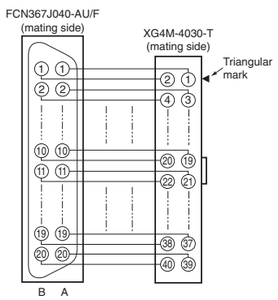
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to One 40-pin MIL Connector

Appearance	Model	Cable length L (m)
	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

Cable length L (m)



Wiring Diagram

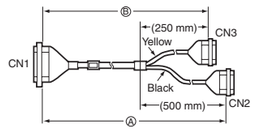


XW2Z-□□□D

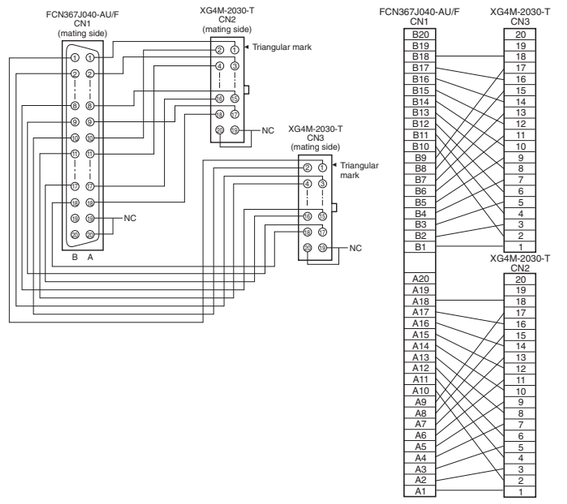
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to Two 20-pin MIL Connectors

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)

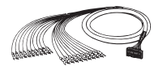


Wiring Diagram

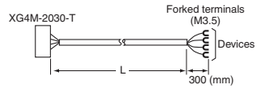


XW2Z-□□□F

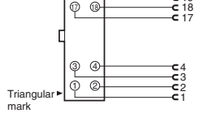
Connectors: One 20-pin MIL Connector to 20 Loose Wires with Crimp Terminals Attached

Appearance	Model	Cable length L (m)
	XW2Z-100F	1
	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



Connector Pin No. Table

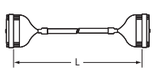
Forked terminal	No. of cores	Insulation color	Dot marks	Dot color	Connector pin No.
1	1	Blue	□	Red	1 ◁
2				Black	2
3	2	Pink		Red	3
4				Black	4
5	3	Green		Red	5
6				Black	6
7	4	Orange		Red	7
8				Black	8
9	5	Gray		Red	9
10				Black	10
11	6	Blue	□□	Red	11
12				Black	12
13	7	Pink		Red	13
14				Black	14
15	8	Green		Red	15
16				Black	16
17	9	Orange		Red	17
18				Black	18
19	10	Gray		Red	19
20				Black	20

XW2Z-□□□K

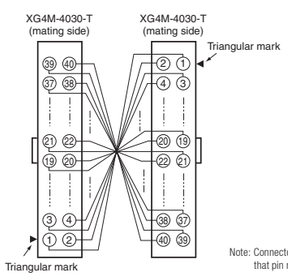
Connectors: One 40-pin MIL Connector to One 40-pin MIL Connector

Appearance	Model	Cable length L (m)
	XW2Z-C25K	0.25
	XW2Z-C50K	0.5
	XW2Z-100K	1
	XW2Z-150K	1.5
	XW2Z-200K	2
	XW2Z-300K	3
	XW2Z-500K	5
	XW2Z-010K	10

Cable length L (m)



Wiring Diagram



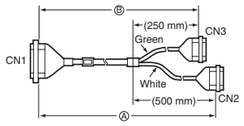
Note: Connector pins are connected 1-to-1 so that pin numbers correspond.

XW2Z-□□□L

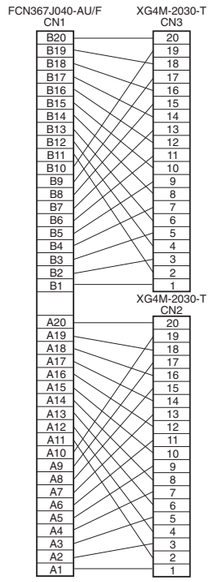
Connectors: One 40-pin Connector Made by Fujitsu Component, Ltd. to Two 20-pin MIL Connectors

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

Cable length L (m)



Wiring Diagram

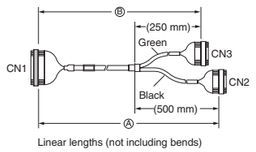


XW2Z-□□□N

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

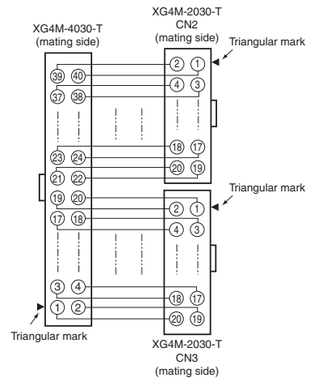
Appearance	Model	Cable length L (m)	
		A	B
	XW2Z-100N	1	0.75
	XW2Z-150N	1.5	1.25
	XW2Z-200N	2	1.75
	XW2Z-300N	3	2.75
	XW2Z-500N	5	4.75
	XW2Z-010N	10	9.75
	XW2Z-15MN	15	14.75
	XW2Z-20MN	20	19.75

Cable length L (m)



Linear lengths (not including bends)

Wiring Diagram

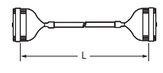


XW2Z-□□□X

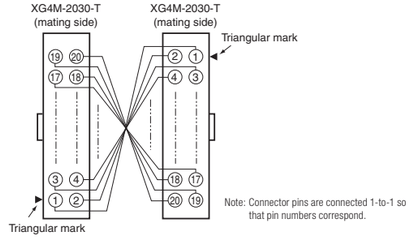
Connectors: One 20-pin MIL Connector to One 20-pin MIL Connector

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: Connector pins are connected 1-to-1 so that pin numbers correspond.

Safety Precautions

Precautions for Correct Use

● Wiring Precautions

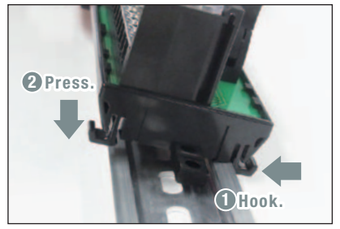
- Do not perform wiring work, remove connectors, or connect connectors while power is being supplied. Electric shock or damage to the device may result.
- Double-check all wiring before turning ON the power supply.
- After wiring, route the cable so that force is not applied directly to the connections.

● 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.

● 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.

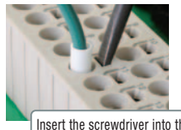
● Connecting Spring cramp Terminals

Using Ferrules

How to insert wire

The wire should be pushed into the terminal block till stopping.

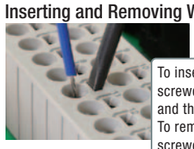
How to release wire



Insert the screwdriver into the release hole and pull out the ferrule.

Using Stripped Wires

Inserting and Removing Wires



To insert a wire, insert a screwdriver into the release hole and then insert the stripped wire. To remove a wire, insert a screwdriver into the release hole and then pull out the stripped wire.

● 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 × 2.5mm max.
XW2R-P□□		

● Bending Radius of Connecting Cables

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

X W 2 Z - □ □ □ □ □

End of model number	Minimum bending radius
A, F, or X	67.2 mm
B, D, K, L, or N	88 mm