Cables for I/O Relay Terminals
XW2Z-R

Connect I/O Relay Terminals to I/O Units for Programmable Controllers with one touch.

- Cables with Connectors for G70V and G7TC I/O Relay Terminals, G70D and G70R Relay Terminals, and G70A and P7TF-IS/OS I/O Terminal Sockets.
- Cables with loose wires available with or without crimp terminals.
- Cables available for programmable controllers from Mitsubishi Electric.

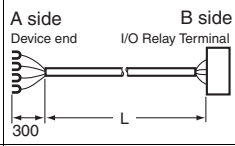
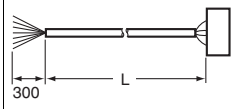
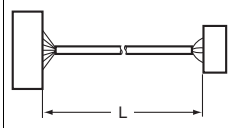
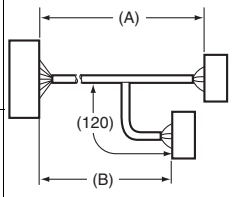
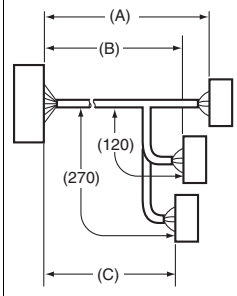
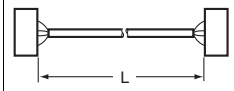


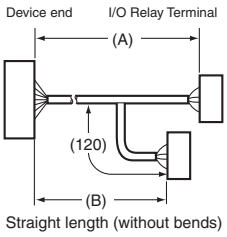
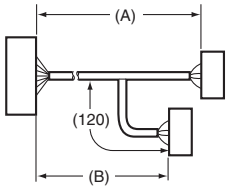
Cable Types and Table of Contents

Connects to	Appearance	Description	Name	I/O Classification	Typical model	Wiring diagram	
						Page	Number
Connections with terminal blocks of various devices		This Cable is convenient for connecting I/O Relay Terminals to devices equipped with screw terminals.	Cables with Loose Wires and Crimp Terminals	16 I/O points	**XW2Z-RY□C**	4	(1)
		This Cable has loose wires at the device end.	Cables with Loose Wires	16 I/O points	**XW2Z-RA□C**		(2)
Fujitsu/Otax connectors		Connects a PLC I/O Unit, DeviceNet slave or other device with Fujitsu/Otax connectors 1:1 to an I/O Relay Terminal.	Cables with Connectors (1:1)	16 I/O points	**XW2Z-R□C**	5	(3)
		Connects a PLC I/O Unit, DeviceNet slave, or other device with Fujitsu/Otax connectors 1:2 to I/O Relay Terminals.	Cables with Connectors (1:2)	32 input points	**XW2Z-RI□C-□**		(4)
				32 output points	**XW2Z-RO□C-□**		(5)
		Connects a PLC I/O Unit, DeviceNet slave, or other device with Fujitsu/Otax connectors 1:3 to I/O Relay Terminals.	Cables with Connectors (1:3)	48 I/O points	**XW2Z-R□C-□-□**	6	(6)
MIL connectors		Connects a PLC I/O Unit, DeviceNet slave, or other device with MIL connectors 1:1 to an I/O Relay Terminal.	Cables with Connectors (1:1)	16 input points/ 16 output points	**XW2Z-RO□C**	7	(7)
					XW2Z-RI□C		(8)
		Connects a PLC I/O Unit, DeviceNet slave, or other device with MIL connectors 1:2 to I/O Relay Terminals.	Cables with Connectors (1:2)	32 input points/ 32 output points	**XW2Z-RO□-□-D1**	8	(9)
					**XW2Z-RI□-□-D1**		(10)
					XW2Z-RI□-□-D2		(11)
		Connects a DeviceNet slave or other device with MIL connectors 1:2 to I/O Relay Terminals.		16 input points/ 16 output points (32 I/O points)	**XW2Z-RM□-□-D1**	9	(12)
					XW2Z-RM□-□-D2		(13)
Mitsubishi Electric PLCs Applicable models: For inputs: AX42, A1SX41, A1SX42, QX41, and QX42 For outputs: AY42, A1SY41, A1SY42, QY41P, and QY42P		Connects Mitsubishi Electric PLCs with 32-point connectors to I/O Relay Terminals through a special cable.	Mitsubishi Electric PLC Connecting Cables (1:2)	32 input points	**XW2Z-RI□C-MN**	10	(14)
				32 output points	**XW2Z-RO□C-MN**		(15)

Note: For combinations of Connections, refer to I/O Relay Terminals and Connected Devices (Cat. No. J217) or to the datasheets for related products.

Ordering Information

Type (A side)	Name	I/O Classification	Appearance	Cable length L (mm)	Models
Loose wire connectins	Cables with Loose Wires and Crimp Terminals XW2Z-RY□C	16 I/O points		1,000	**XW2Z-RY100C**
				1,500	**XW2Z-RY150C**
				2,000	**XW2Z-RY200C**
				3,000	**XW2Z-RY300C**
				5,000	**XW2Z-RY500C**
	Cables with Loose Wires XW2Z-RA□C	16 I/O points		2,000	**XW2Z-RA200C**
				5,000	**XW2Z-RA500C**
Fujitsu/Otax connectors (24 pins)	Cables with Connectors (1:1) XW2Z-R□C	16 I/O points		1,000	**XW2Z-R100C**
				1,500	**XW2Z-R150C**
				2,000	**XW2Z-R200C**
				3,000	**XW2Z-R300C**
				5,000	**XW2Z-R500C**
Fujitsu/Otax connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RI□C-□ XW2Z-RO□C-□	32 input points	 Straight length (without bends)	(A) 1,000	(B) 750	**XW2Z-RI100C-75**
				(A) 1,500	(B) 1,250	**XW2Z-RI150C-125**
				(A) 2,000	(B) 1,750	**XW2Z-RI200C-175**
				(A) 3,000	(B) 2,750	**XW2Z-RI300C-275**
				(A) 5,000	(B) 4,750	**XW2Z-RI500C-475**
		32 output points		(A) 1,000	(B) 750	**XW2Z-RO100C-75**
				(A) 1,500	(B) 1,250	**XW2Z-RO150C-125**
				(A) 2,000	(B) 1,750	**XW2Z-RO200C-175**
				(A) 3,000	(B) 2,750	**XW2Z-RO300C-275**
				(A) 5,000	(B) 4,750	**XW2Z-RO500C-475**
Fujitsu/Otax connectors (56 pins)	Cables with Connectors (1:3) XW2Z-R□C-□-□	48 I/O points	 Straight length (without bends)	(A) 1,500	(B) 1,250	(C) 1,000	**XW2Z-R150C-125-100**
				(A) 2,000	(B) 1,750	(C) 1,500	**XW2Z-R200C-175-150**
				(A) 3,000	(B) 2,750	(C) 2,500	**XW2Z-R300C-275-250**
MIL connectors (20 pins)	Cables with Connectors (1:1) XW2Z-RO□C XW2Z-RI□C	16 I/O points		250	**XW2Z-RO25C**
				500	**XW2Z-RO50C**
				250	**XW2Z-RI25C**
				500	**XW2Z-RI50C**

Type (A side)	Name	I/O Classification	Appearance	Cable length L (mm)		Models
MIL connectors (40 pins)	Cables with Connectors (1:2) XW2Z-RO□-□-D1, XW2Z-RI□-□-D1, XW2Z-RI□-□-D2, XW2Z-RM□-□-D1*, XW2Z-RM□-□-D2*	32 I/O points	 Straight length (without bends)	(A) 500	(B) 250	**XW2Z-RO50-25-D1**
				(A) 750	(B) 500	**XW2Z-RO75-50-D1**
				(A) 1,000	(B) 750	**XW2Z-RO100-75-D1**
				(A) 1,500	(B) 1,250	**XW2Z-RO150-125-D1**
				(A) 2,000	(B) 1,750	**XW2Z-RO200-175-D1**
				(A) 3,000	(B) 2,750	**XW2Z-RO300-275-D1**
				(A) 5,000	(B) 4,750	**XW2Z-RO500-475-D1**
				(A) 500	(B) 250	**XW2Z-RI50-25-D1**
				(A) 750	(B) 500	**XW2Z-RI75-50-D1**
				(A) 1,000	(B) 750	**XW2Z-RI100-75-D1**
				(A) 1,500	(B) 1,250	**XW2Z-RI150-125-D1**
				(A) 2,000	(B) 1,750	**XW2Z-RI200-175-D1**
				(A) 3,000	(B) 2,750	**XW2Z-RI300-275-D1**
				(A) 5,000	(B) 4,750	**XW2Z-RI500-475-D1**
				(A) 500	(B) 250	**XW2Z-RI50-25-D2**
				(A) 750	(B) 500	**XW2Z-RI75-50-D2**
		16 inputs and 16 outputs (32 I/O points)		(A) 500	(B) 250	**XW2Z-RM50-25-D1**
				(A) 750	(B) 500	**XW2Z-RM75-50-D1**
				(A) 1,000	(B) 750	**XW2Z-RM100-75-D1**
				(A) 1,500	(B) 1,250	**XW2Z-RM150-125-D1**
				(A) 2,000	(B) 1,750	**XW2Z-RM200-175-D1**
				(A) 3,000	(B) 2,750	**XW2Z-RM300-275-D1**
				(A) 5,000	(B) 4,750	**XW2Z-RM500-475-D1**
Mitsubishi Electric PLCs with 32-point connectors (1:2) Applicable models: For inputs: AX42, A1SX41, A1SX42, QX41, and QX42 For outputs: AY42, A1SY41, A1SY42, QY41P, and QY42P	Mitsubishi Electric PLC Connecting Cables XW2Z-RI□C-□-MN XW2Z-RO□C-□-MN	32 input points	 Straight length (without bends)	(A) 1,000	(B) 750	**XW2Z-RI100C-75-MN**
				(A) 1,500	(B) 1,250	**XW2Z-RI150C-125-MN**
				(A) 2,000	(B) 1,750	**XW2Z-RI200C-175-MN**
				(A) 3,000	(B) 2,750	**XW2Z-RI300C-275-MN**
		32 output points		(A) 1,000	(B) 750	**XW2Z-RO100C-75-MN**
				(A) 1,500	(B) 1,250	**XW2Z-RO150C-125-MN**
				(A) 2,000	(B) 1,750	**XW2Z-RO200C-175-MN**
				(A) 3,000	(B) 2,750	**XW2Z-RO300C-275-MN**

Note: For a connector pin assignment diagram and cable color information, refer to the wiring drawings.

✻ These cables are used to connect to slave products for DeviceNet and other networks.

Wiring diagram

For various devices

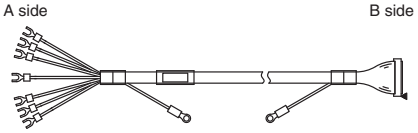
(1) Cables with Loose Wires and Crimp Terminals (16 I/O points)

XW2Z-RY□C

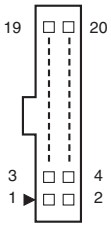
A side				B side	
Marker tube No. *1	Insulation color	Dot mark	Dot color	CN1 Pin No.	Corresponding G70V/G7TC connector pin number*2
20	BLUE	■	RED	1	20
10	BLUE	■	BLACK	2	10
19	PINK	■	RED	3	19
9	PINK	■	BLACK	4	9
18	GREEN	■	RED	5	18
8	GREEN	■	BLACK	6	8
17	ORANGE	■	RED	7	17
7	ORANGE	■	BLACK	8	7
16	GRAY	■	RED	9	16
6	GRAY	■	BLACK	10	6
15	BLUE	■■	RED	11	15
5	BLUE	■■	BLACK	12	5
14	PINK	■■	RED	13	14
4	PINK	■■	BLACK	14	4
13	GREEN	■■	RED	15	13
3	GREEN	■■	BLACK	16	3
12	ORANGE	■■	RED	17	12
2	ORANGE	■■	BLACK	18	2
11	GRAY	■■	RED	19	11
1	GRAY	■■	BLACK	20	1

✻1. Marker tube numbers and the G70V and G7TC connector pin numbers are same. Be careful when using with other models (Relay Terminals). Refer to the datasheet for specific products for details.

✻2. Refer to the datasheets for the G70V and G7TC for the connector pin layouts of I/O Relay Terminals.



Connector Pin Diagram (from Connector Mating Side)



Item	Part	
Terminal Connector	A side	Loose Wires and Crimp Terminals (fork terminal (1.25-3))
	B side	XG4M-2030-T (MIL connector)
Cable	UL2464 BC10P-SB AWG28(7/0.127) Interface cable (Cable color: Gray)	

Note: 1. The power line capacity is 50 mA max. per I/O point. Also, always check the driver capacity and I/O relay power consumption when using for outputs.

2. The crimp terminals are labeled with the corresponding connector pin numbers in parentheses. Refer to the Connector Pin No. Tables for marker tube numbers.

3. Connect terminals 9 and 19 and terminals 10 and 20 together when using the G7TC-OC08.

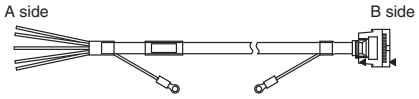
4. The wire gauge of the wires in the cable is 28 AWG (7/0.127).

(2) Cables with Loose Wires (16 I/O points)

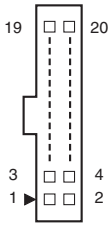
XW2Z-RA□C

A side			B side	
Insulation color	Dot mark	Dot color	CN1 Pin No.	Corresponding G70V/G7TC connector pin number*
ORANGE	■	BLACK	20	1
ORANGE	■	RED	19	11
GRAY	■	BLACK	18	2
GRAY	■	RED	17	12
WHITE	■	BLACK	16	3
WHITE	■	RED	15	13
YELLOW	■	BLACK	14	4
YELLOW	■	RED	13	14
PINK	■	BLACK	12	5
PINK	■	RED	11	15
ORANGE	■■	BLACK	10	6
ORANGE	■■	RED	9	16
GRAY	■■	BLACK	8	7
GRAY	■■	RED	7	17
WHITE	■■	BLACK	6	8
WHITE	■■	RED	5	18
YELLOW	■■	BLACK	4	9
YELLOW	■■	RED	3	19
PINK	■■	BLACK	2	10
PINK	■■	RED	1	20

✻ Refer to the datasheets for the G70V and G7TC for the connector pin layouts of I/O Relay Terminals.



Connector Pin Diagram (from Connector Mating Side)



Item	Part	
Terminal Connector	A side	Loose Wires
	B side	XG5M-2032-N XG5S-2012 (MIL connector)
Cable	UL2464 BC10P-SB AWG24(7/0.203) Interface cable (Cable color: Black)	

Note: 1. The wire gauge of the wires in the cable is 24 AWG (7/0.203).

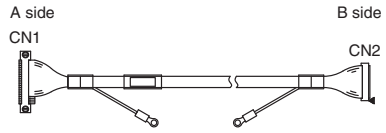
2. Connect terminals 9 and 19 and terminals 10 and 20 together when using the G7TC-OC08.

For Fujitsu/Otax connectors

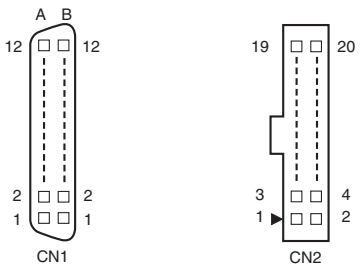
(3) Cables with Connectors (1:1) (16 I/O points)

XW2Z-R□C

CN1	CN2
1A	20
1B	19
2A	18
2B	17
3A	16
3B	15
4A	14
4B	13
5A	12
5B	11
6A	10
6B	9
7A	8
7B	7
8A	6
8B	5
9A	4
9B	3
10A	2
10B	1
11A	NC
11B	
12A	
12B	



Connector Pin Diagram (from Connector Mating Side)



Item		Part
Terminal Connector	A side	Fujitsu FCN-367J024-AU/F * Otax N367J024AUF
	B side	XG4M-2030-T (MIL connector)
Cable		UL2464 BC10P-SB AWG28 (7/0.127) Interface cable (Cable color: Gray)

✻The connector is made by Fujitsu/Otax.

(4) Cables with Connectors (1:2) (32 I/O points)

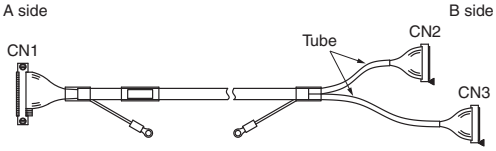
XW2Z-RI□C-□

CN1	CN2	CN3
1A	20	---
1B	---	20
2A	18	---
2B	---	18
3A	16	---
3B	---	16
4A	14	---
4B	---	14
5A	12	---
5B	---	12
6A	10	---
6B	---	10
7A	8	---
7B	---	8
8A	6	---
8B	---	6
9A	4	---
9B	---	4
10A	19	---
10B	---	19
11A	17	---
11B	---	17
12A	15	---
12B	---	15
13A	13	---
13B	---	13
14A	11	---
14B	---	11
15A	9	---
15B	---	9
16A	7	---
16B	---	7
17A	5	---
17B	---	5
18A	3	---
18B	---	3
19A	NC	
19B		
20A		
20B		

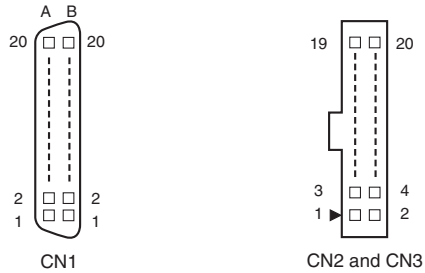
(5) Cables with Connectors (1:2) (32 I/O points)

XW2Z-RO□C-□

CN1	CN2	CN3
1A	20	---
1B	---	20
2A	18	---
2B	---	18
3A	16	---
3B	---	16
4A	14	---
4B	---	14
5A	12	---
5B	---	12
6A	10	---
6B	---	10
7A	8	---
7B	---	8
8A	6	---
8B	---	6
9A	4	---
9B	---	4
10A	2	---
10B	---	2
11A	19	---
11B	---	19
12A	17	---
12B	---	17
13A	15	---
13B	---	15
14A	13	---
14B	---	13
15A	11	---
15B	---	11
16A	9	---
16B	---	9
17A	7	---
17B	---	7
18A	5	---
18B	---	5
19A	3	---
19B	---	3
20A	1	---
20B	---	1



Connector Pin Diagram (from Connector Mating Side)



Item		Part
Terminal Connector	A side	Fujitsu FCN-367J040-AU/FW *
	B side	XG4M-2030-T×2 (MIL connector)
Cable		UL2464 BC20P-SB AWG28(7/0.127) Interface cable Cable color: Gray Tube color: XW2Z-RI□C-□ CN2, CN3: Red XW2Z-RO□C-□ CN2, CN3: Yellow

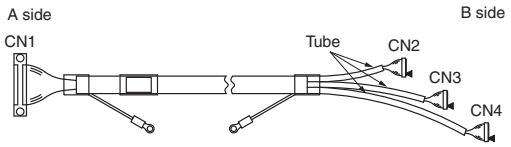
✻The connector is made by Fujitsu/Otax.

For Fujitsu/Otax connectors

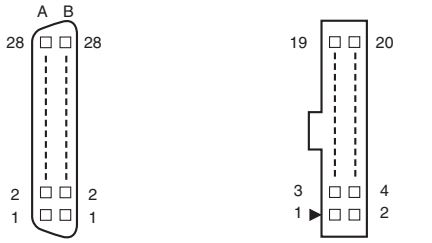
(6) Cables with Connectors (1:3) (48 I/O points)

XW2Z-R□C-□-□

CN1	CN2	CN3	CN4
1A	20	---	---
1B	19	---	---
2A	18	---	---
2B	17	---	---
3A	16	---	---
3B	15	---	---
4A	14	---	---
4B	13	---	---
5A	12	---	---
5B	11	---	---
6A	10	---	---
6B	9	---	---
7A	8	---	---
7B	7	---	---
8A	6	---	---
8B	5	---	---
9A	4	---	---
9B	1	---	---
10A	---	20	---
10B	---	19	---
11A	---	18	---
11B	---	17	---
12A	---	16	---
12B	---	15	---
13A	---	14	---
13B	---	13	---
14A	---	12	---
14B	---	11	---
15A	---	10	---
15B	---	9	---
16A	---	8	---
16B	---	7	---
17A	---	6	---
17B	---	5	---
18A	---	4	---
18B	---	1	---
19A	---	---	20
19B	---	---	19
20A	---	---	18
20B	---	---	17
21A	---	---	16
21B	---	---	15
22A	---	---	14
22B	---	---	13
23A	---	---	12
23B	---	---	11
24A	---	---	10
24B	---	---	9
25A	---	---	8
25B	---	---	7
26A	---	---	6
26B	---	---	5
27A	---	---	4
27B	---	---	1
28A	NC		
28B	NC		



Connector Pin Diagram (from Connector Mating Side)



Item		Part
Terminal Connector	A side	Fujitsu FCN-367J056-AU/FW* Otax N367J056AUF
	B side	XG4M-2030-T×3 (MIL connector)
Cable	UL2464 BC30P-SB AWG28(7/0.127) Interface cable Cable color: Gray Tube color: CN2, CN3, CN4: Black	

✻The connector is made by Fujitsu/Otax.

For MIL connectors

(7) Cables with Connectors (1:1) (16 I/O points)

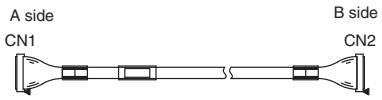
XW2Z-RO□C

CN1	CN2
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

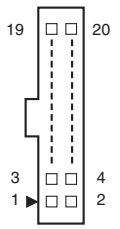
(8) Cables with Connectors (1:1) (16 I/O points)

XW2Z-RI□C

CN1	CN2
3	1
4	2
1	3
2	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20



Connector Pin Diagram
(from Connector Mating Side)



CN1 and CN2

Item	Part	
Terminal Connector	A side	XG4M-2030-T (MIL connector)
	B side	XG4M-2030-T (MIL connector)
Cable	UL2464 BC10P-SB AWG28(7/0.127) Interface cable (Cable color: Gray)	

For MIL connectors

(9) Cables with Connectors (1:2) (32 I/O points)

XW2Z-RO□-□-D1

CN1	CN2	CN3
1	---	1
2	---	2
3	---	3
4	---	4
5	---	5
6	---	6
7	---	7
8	---	8
9	---	9
10	---	10
11	---	11
12	---	12
13	---	13
14	---	14
15	---	15
16	---	16
17	---	17
18	---	18
19	---	19
20	---	20
21	1	---
22	2	---
23	3	---
24	4	---
25	5	---
26	6	---
27	7	---
28	8	---
29	9	---
30	10	---
31	11	---
32	12	---
33	13	---
34	14	---
35	15	---
36	16	---
37	17	---
38	18	---
39	19	---
40	20	---

(10) Cables with Connectors (1:2) (32 I/O points)

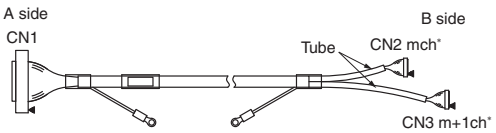
XW2Z-RI□-□-D1

CN1	CN2	CN3
1	---	3
2	---	4
3	---	1
4	---	2
5	---	5
6	---	6
7	---	7
8	---	8
9	---	9
10	---	10
11	---	11
12	---	12
13	---	13
14	---	14
15	---	15
16	---	16
17	---	17
18	---	18
19	---	19
20	---	20
21	3	---
22	4	---
23	1	---
24	2	---
25	5	---
26	6	---
27	7	---
28	8	---
29	9	---
30	10	---
31	11	---
32	12	---
33	13	---
34	14	---
35	15	---
36	16	---
37	17	---
38	18	---
39	19	---
40	20	---

(11) Cables with Connectors (1:2) (32 I/O points)

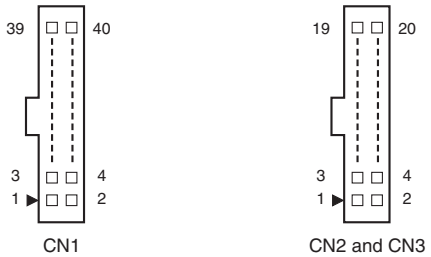
XW2Z-RI□-□-D2

CN1	CN2	CN3
1	---	1
2	---	2
3	---	3
4	---	4
5	---	5
6	---	6
7	---	7
8	---	8
9	---	9
10	---	10
11	---	11
12	---	12
13	---	13
14	---	14
15	---	15
16	---	16
17	---	17
18	---	18
19	---	19
20	---	20
21	1	---
22	2	---
23	3	---
24	4	---
25	5	---
26	6	---
27	7	---
28	8	---
29	9	---
30	10	---
31	11	---
32	12	---
33	13	---
34	14	---
35	15	---
36	16	---
37	17	---
38	18	---
39	19	---
40	20	---



✻For the XW2Z-RI/O□-□-D□

Connector Pin Diagram (from Connector Mating Side)

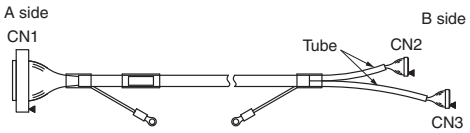


Item	Part	
Terminal Connector	A side	XG4M-4030-T (MIL connector)
	B side	XG4M-2030-T×2 (MIL connector)
Cable	UL2464 BC20P-SB AWG28(7/0.127) Interface cable Cable color: Gray Tube color: XW2Z-RO□-□-D1 CN2, CN3: Yellow XW2Z-RI□-□-D1/D2 CN2, CN3: Red	

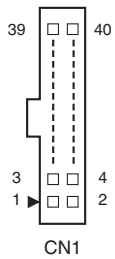
For MIL connectors

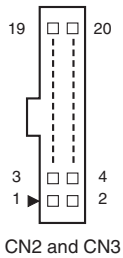
(12) Cables with Connectors (1:2) (16 input points/16 output points) XW2Z-RM□-□-D1

CN1	CN2	CN3
1	---	1
2	---	2
3	---	3
4	---	4
5	---	5
6	---	6
7	---	7
8	---	8
9	---	9
10	---	10
11	---	11
12	---	12
13	---	13
14	---	14
15	---	15
16	---	16
17	---	17
18	---	18
19	---	19
20	---	20
21	3	---
22	4	---
23	1	---
24	2	---
25	5	---
26	6	---
27	7	---
28	8	---
29	9	---
30	10	---
31	11	---
32	12	---
33	13	---
34	14	---
35	15	---
36	16	---
37	17	---
38	18	---
39	19	---
40	20	---



Connector Pin Diagram (from Connector Mating Side)





(13) Cables with Connectors (1:2) (16 input points/16 output points) XW2Z-RM□-□-D2

CN1	CN2	CN3
1	---	1
2	---	2
3	---	3
4	---	4
5	---	5
6	---	6
7	---	7
8	---	8
9	---	9
10	---	10
11	---	11
12	---	12
13	---	13
14	---	14
15	---	15
16	---	16
17	---	17
18	---	18
19	---	19
20	---	20
21	1	---
22	2	---
23	3	---
24	4	---
25	5	---
26	6	---
27	7	---
28	8	---
29	9	---
30	10	---
31	11	---
32	12	---
33	13	---
34	14	---
35	15	---
36	16	---
37	17	---
38	18	---
39	19	---
40	20	---

Item	Part	
Terminal Connector	A side	XG4M-4030-T (MIL connector)
	B side	XG4M-2030-T×2 (MIL connector)
Cable	UL2464 BC20P-SB AWG28(7/0.127) Interface cable Cable color: Gray Tube color: XW2Z-RM□-□-D1 CN2: Red, CN3: Yellow XW2Z-RM□-□-D2 CN2: Yellow, CN3: Red	

For Mitsubishi Electric PLCs

(14) Mitsubishi Electric PLC Connecting Cables (1:2) (32 input points)

XW2Z-RI□C-MN

CN1	CN2	CN3
1A	NC	
1B	3	---
2A	NC	
2B	---	4
3A	NC	
3B		
4A		
4B		
5A	---	5
5B	5	---
6A	---	7
6B	7	---
7A	---	9
7B	9	---
8A	---	11
8B	11	---
9A	---	13
9B	13	---
10A	---	15
10B	15	---
11A	---	17
11B	17	---
12A	---	19
12B	19	---
13A	---	6
13B	6	---
14A	---	8
14B	8	---
15A	---	10
15B	10	---
16A	---	12
16B	12	---
17A	---	14
17B	14	---
18A	---	16
18B	16	---
19A	---	18
19B	18	---
20A	---	20
20B	20	---

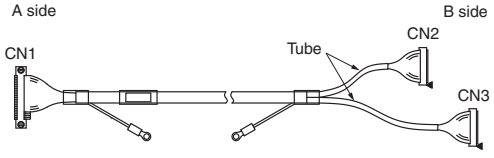
Note: The G70V or G7TC connector pin numbers are not the same as the XW2Z-R Cable connector pin numbers. Refer to the datasheet for specific products for details.

(15) Mitsubishi Electric PLC Connecting Cables (1:2) (32 output points)

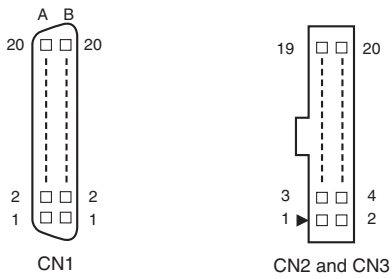
XW2Z-RO□C-MN

CN1	CN2	CN3
1A	---	4
1B	---	2
2A	4	---
2B	2	---
3A	NC	
3B		
4A		
4B		
5A	---	5
5B	5	---
6A	---	7
6B	7	---
7A	---	9
7B	9	---
8A	---	11
8B	11	---
9A	---	13
9B	13	---
10A	---	15
10B	15	---
11A	---	17
11B	17	---
12A	---	19
12B	19	---
13A	---	6
13B	6	---
14A	---	8
14B	8	---
15A	---	10
15B	10	---
16A	---	12
16B	12	---
17A	---	14
17B	14	---
18A	---	16
18B	16	---
19A	---	18
19B	18	---
20A	---	20
20B	20	---

Note: The G70V or G7TC connector pin numbers are not the same as the XW2Z-R Cable connector pin numbers. Refer to the datasheet for specific products for details.



Connector Pin Diagram (from Connector Mating Side)



Item	Part	
Terminal Connector	A side	Fujitsu FCN-367J040-AU/FW*
	B side	XG4M-2030-T×2 (MIL connector)
Cable	UL2464 BC20P-SB AWG28(7/0.127) Interface cable Cable color: Gray Tube color: XW2Z-RI□C-MN CN2, CN3: Gray XW2Z-RO□C-MN CN2, CN3: Black	

✻ The connector is made by Fujitsu/Otax.

Ratings and Specifications

Rated current	1 A
Rated voltage	250 V
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.) *
Insulation resistance	1,000 MΩ min. (at 500 VDC) *
Dielectric strength	500 VAC for 1 min (leakage current: 1 mA max.)
Ambient operating temperature	0 to 80°C

✻These values are for the connectors.

Safety Precautions

Be sure to read *Safety Precautions for All I/O Relay Terminals* in the website at:
http://www.ia.omron.com/.

Warning Indications

Precautions for Correct Use	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.

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.

Minimum bending radius

Wiring diagram No.	Model	Minimum bending radius (mm)
(1)	**XW2Z-RY□C**	68
(2)	**XW2Z-RA□C**	50
(3)	**XW2Z-R□C**	68
(4)	**XW2Z-RI□C-□**	88
(5)	**XW2Z-RO□C-□**	
(6)	**XW2Z-R□C-□-□**	99
(7)	**XW2Z-RO□C**	68
(8)	**XW2Z-RI□C**	
(9)	**XW2Z-RO□-□-D1**	88
(10)	**XW2Z-RI□-□-D1**	
(11)	**XW2Z-RI□-□-D2**	
(12)	**XW2Z-RM□-□-D1**	
(13)	**XW2Z-RM□-□-D2**	
(14)	**XW2Z-RI□C-□-MN**	
(15)	**XW2Z-RO□C-□-MN**	

Refer to the manuals for the connected PLC for the connections to I/O Units for OMRON PLCs.

Series	Model	Man. No.	Manual Name
CS1	CS1G-CPU□□H, CS1H-CPU□□H	W339	Programmable Controllers Operation Manual
CJ1	CJ1H-CPU□□H-R, CJ1G/H-CPU□□H, CJ1G-CPU□□P, CJ1M-CPU□□, CJ1G-CPU□□	W393	CJ Series Programmable Controllers Operation Manual
CJ2	CJ2H-CPU6□-EIP, CJ2H-CPU6□, CJ2M-CPU□□	W472	CJ-series CJ2 CPU Unit Hardware User's Manual
NJ	NJ501-□□□□	W500	NJ-series CPU Unit Hardware User's Manual
NX	NX-ID□□□□, NX-IA□□□□, NX-OD□□□□, NX-OC□□□□, NX-MD□□□□	W521	NX-series Digital I/O Units User's Manual

MEMO

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Note: Do not use this document to operate the Unit.

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