# OMRON

# 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**

	_	<b>D</b>		1/0		Wiring diagram	
Connects to	Appearance	Description	Name	Classification	Typical model	Page	Number
Connections with termi- nal blocks of various de- vices		This Cable is convenient for con- necting I/O Relay Terminals to devices equipped with screw ter- minals.	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.	16 I/O points	XW2Z-RA⊡C	- 4 -	(2)	
Fujitsu connectors		Connects a PLC I/O Unit, De- viceNet slave or other device with Fujitsu connectors 1:1 to an I/O Relay Terminal.	Cables with Con- nectors (1:1)	16 I/O points	XW2Z-R□C		(3)
			Cables with Con- nectors (1:2)	32 input points	XW2Z-RI□C-□	5	(4)
		with Fujitsu connectors 1:2 to I/O Relay Terminals.		32 output points	XW2Z-RO□C-□		(5)
		Connects a PLC I/O Unit, De- viceNet slave, or other device with Fujitsu connectors 1:3 to I/O Relay Terminals.	Cables with Con- nectors (1:3)	48 I/O points	XW2Z-R	6	(6)
		Connects a PLC I/O Unit, De- viceNet slave, or other device with MIL connectors 1:1 to an I/O Relay Terminal.	Cables with Con- nectors (1:1)	16 input points/ 16 output points	XW2Z-RO□C	7	(7)
					XW2Z-RI□C		(8)
MIL connectors			Cables with Con- nectors (1:2)	32 input points/ 32 output points	XW2Z-RO□-□-D1	- 8	(9)
MIL CONNECTORS		with MIL connectors 1:2 to I/O Relay Terminals.			XW2Z-RI□-□-D1		(10)
					XW2Z-RI□-□-D2		(11)
		Connects a DeviceNet slave or		16 input points/ 16 output points (32 I/O points)	XW2Z-RM□-□-D1		(12)
		other device with MIL connectors 1:2 to I/O Relay Terminals.			XW2Z-RM□-□-D2	9	(13)
Mitsubishi Electric PLCs Applicable models: For inputs: AX42_A1SX41_A1SX42		Connects Mitsubishi Electric PLCs with 32-point connectors to	Mitsubishi Electric PLC Connecting Cables (1:2)	32 input points	XW2Z-RI⊡C-MN	10	(14)
AX42, A1SX41, A1SX42, QX41, and QX42 For outputs: AY42, A1SY41, A1SY42, QY41P, and QY42P		I/O Relay Terminals through a special cable.		32 output points	XW2Z-RO□C-MN	- 10 -	(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.

# XW2Z-R Ordering Information

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

2

Type (A side)	Name	I/O Classification	Appearance	Cable leng	gth L (mm)	Models
				(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
		32 I/O points		(A) 500	(B) 250	XW2Z-RI50-25-D1
		32 1/0 points	<b>.</b>	(A) 750	(B) 500	XW2Z-RI75-50-D1
			A side B side Device end I/O Relay Terminal	(A) 1,000	(B) 750	XW2Z-RI100-75-D1
	Cables with Connectors (1:2)		(A)	(A) 1,500	(B) 1,250	XW2Z-RI150-125-D1
				(A) 2,000	(B) 1,750	XW2Z-RI200-175-D1
MIL connectors (40 pins)	XW2Z-RO□-□-D1, XW2Z-RI□-□-D1,		║╞╾╤┰══╡║	(A) 3,000	(B) 2,750	XW2Z-RI300-275-D1
	XW2Z-RII - D-D2, XW2Z-RM - D-D1*, XW2Z-RM - D-D2*		Straight length (without bends)	(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
				(A) 500	(B) 250	XW2Z-RM50-25-D2
				(A) 750	(B) 500	XW2Z-RM75-50-D2
				(A) 1,000	(B) 750	XW2Z-RI100C-75-MN
Mitsubishi Electric PLCs with		00 input - sists	<b>←</b> (A) <b>→</b>	(A) 1,500	(B) 1,250	XW2Z-RI150C-125-MN
32-point connectors (1:2)	Mitsubishi Electric PLC	32 input points		(A) 2,000	(B) 1,750	XW2Z-RI200C-175-MN
Applicable models:	Connecting Cables			(A) 3,000	(B) 2,750	XW2Z-RI300C-275-MN
For inputs: AX42, A1SX41, A1SX42, QX41, and QX42	XW2Z-RI⊡C-⊡-MN			(A) 1,000	(B) 750	XW2Z-RO100C-75-MN
For outputs: AY42, A1SY41, A1SY42, QY41P, and	XW2Z-RO CMN			(A) 1,500	(B) 1,250	XW2Z-RO150C-125-MN
QY42P		32 output points	(B) → (B) → (B) → (B) → (B)	(A) 2,000	(B) 1,750	XW2Z-RO200C-175-MN
			enalg. (Hongar (Wallout Delius)	(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.

# XW2Z-R

# Wiring diagram

# For various devices

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

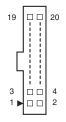
	A si	de	B side		
Marker tube No. *1	Insula- tion color	Dot mark	Dot color	CN1 Pin No.	Corresponding G70V/G7TC connect tor pin number*2
20	BLUE		RED	1	20
10	BLUE		BLACK	2	10
19	PINK		RED	3	19
9	PINK		BLACK	4	9
18	GREEN		RED	5	18
8	GREEN		BLACK	6	8
17	ORANGE		RED	7	17
7	ORANGE		BLACK	8	7
16	GRAY		RED	9	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

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))	
Connector	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)

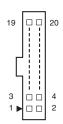
#### XW2Z-RA C

	A side			B side
Insulation color	Dot mark	Dot color	CN1 Pin No.	Corresponding G70V/G7TC connec- tor 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		
	A side	Loose Wires	
Terminal Connector	B side	XG5M-2032-N XG5S-2012 (MIL connector)	
Cable	UL2464 BC10P-SB AWG24(7/0.203) Interface cable (Cable color: Black)		

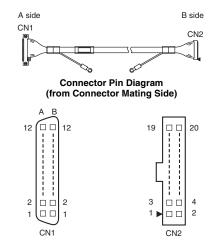
Note: 1. The wire gauge of the wires in the cable is 24 AWG (7/ 0.203).

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

# For Fujitsu connectors

# (3) Cables with Connectors (1:1) (16 I/O points) XW2Z-R□C

CN1 1A 1B 2A 2B	CN2 20 19 18 17 16
1B 2A	19 18 17
2A	18 17
	17
2B	
	16
ЗA	
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	
11B	NC
12A	110
12B	



Item	Part		
Terminal	A side	FCN-367J024-AU/F *	
Connector	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 Component Ltd.

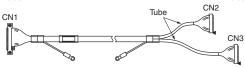
# (4) Cables with Connectors (1:2) (32 I/O points) XW2Z-RI□C-□

CN1	CN2	CN3
1A	20	
1B		20
2A	18	
2B		18
ЗA	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		
19B	N	IC
20A	IN IN	
20B	1	

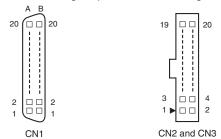
# (5) Cables with Connectors (1:2) (32 I/O points) XW2Z-RO C-

CN1	CN2	CN3
1A	20	
1B		20
2A	18	
2B		18
ЗA	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

B side



#### Connector Pin Diagram (from Connector Mating Side)



Item	Part
Terminal Connector	A side FCN-367J040-AU/FW *
Terminal 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-RI□C-□ CN2, CN3: Red XW2Z-RO□C-□ CN2, CN3: Yellow

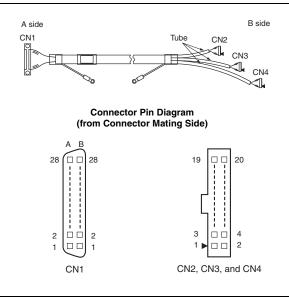
\* The connector is made by Fujitsu Component Ltd.

# For Fujitsu 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			13
20A 20B			10
20B 21A			16
21A 21B			
			15 14
22A			
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	



Item	Part	
Terminal	A side	FCN-367J056-AU/FW*
Connector	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 Component Ltd.

# For MIL connectors

(7) Cables with Connectors (1:1) (16 I/O points) XW2Z-RO□C

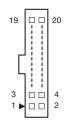
CN1	CN2
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20

# (8) Cables with Connectors (1:1) (16 I/O points) XW2Z-RI

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	A side	XG4M-2030-T (MIL connector)
Connector B	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	
-	-	1

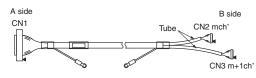
### (10) Cables with Connectors (1:2) (32 I/O points)

# 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	
	II.	

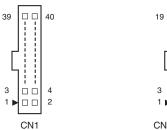
# (11) Cables with Connectors (1:2) (32 I/O points) XW2Z-RI□-□-D2

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)



CN2 and CN3

4

2

20

Item	Part		
Terminal	A side	XG4M-4030-T (MIL connector)	
Connector	B side	XG4M-2030-T×2 (MIL connector)	
Cable	Interface Cable	BC20P-SB AWG28(7/0.127) e cable e color: Gray color: XW2Z-ROD1 CN2, CN3: Yellow XW2Z-RID1/D2 CN2, CN3: Red	

3

# 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	

A side

CN1

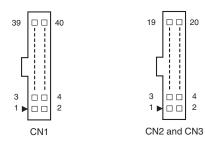
#### B side CN2 Tube. ∽. K ⊂N3 or 20

20

4

2

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

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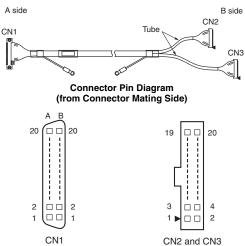
# For Mitsubishi Electric PLCs

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

XW2Z-RI□C-MN

CN1	CN2	CN3
1A	١	NC
1B	3	
2A	1	NC
2B		4
ЗA		
3B	L.	NC
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
19A	18	
20A		20
20A 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			
2A	4		
2B	2		
ЗA			
3B			
4A	N	IC	
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		
10D		17	
11B	17		
11B 12A		19	
12A 12B	19		
13A		6	
13A 13B	6		
		8	
14A			
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.

Item	Part				
Terminal	A side	FCN-367J040-AU/FW*			
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-RI□C-MN CN2, CN3: Gray XW2Z-RO□C-MN CN2, CN3: Black				

\* The connector is made by Fujitsu Component Ltd.

# **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

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

# 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-□	00
(6)	XW2Z-R□C-□-□	99
(7)	XW2Z-RO□C	- 68
(8)	XW2Z-RI□C	00
(9)	XW2Z-RO□-□-D1	
(10)	(10) <b>XW2Z-RI</b> □-□- <b>D1</b>	
(11)	XW2Z-RI□-□-D2	
(12)	XW2Z-RM□-□-D1	88
(13)	(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-IDDDDD, NX-IADDDD, NX-ODDDDDD, NX-OCDDDD, NX-MDDDDD	W521	NX-series Digital I/O Units User's Manual

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