Connecting Cables for Connector-Terminal Block Conversion Units

XW2Z

CSM_XW2Z_DS_E_3_1

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



Ordering Information

For 32-point, Connector-type I/O Units for Programmable Controllers

XW2Z-□□□A

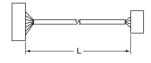
(For XW2D-20G6/XW2B-20G□/-40G5-T/-20G5-D/XW2C-20G5-IN16/20G6-IO16/XW2E-20G5-IN16/XW2F-20G7-IN16/-OUT16/XW2N-20G8-IN16)

Cable length L (m) *	Model
0.5	XW2Z-050A
1.0	XW2Z-100A
1.5	XW2Z-150A
2.0	XW2Z-200A
3.0	XW2Z-300A
5.0	XW2Z-500A
10.0	XW2Z-010A
15.0	XW2Z-15MA
20.0	XW2Z-20MA

XW2Z-□□**AU** (For XW2D-20C6)

Model
XW2Z-050AU
XW2Z-100AU
XW2Z-150AU
XW2Z-200AU
XW2Z-300AU
XW2Z-500AU

^{*}Cable length L (m)



For 32-point, Connector-type I/O Units (Group 2) for Programmable Controllers For 64-point, Connector-type I/O Units for Programmable Controllers

XW2Z-□□□**B** (For XW2D-40G6/XW2B-40G□)

Type	Cable length L (m) *	Model
Normal wiring	0.5	XW2Z-050B
	1.0	XW2Z-100B
	1.5	XW2Z-150B
	2.0	XW2Z-200B
	3.0	XW2Z-300B
	5.0	XW2Z-500B
	10.0	XW2Z-010B
	15.0	XW2Z-15MB
	20.0	XW2Z-20MB
	0.5	XW2Z-050B-R1
	1.0	XW2Z-100B-R1
Reverse wiring	1.5	XW2Z-150B-R1
	2.0	XW2Z-200B-R1
	3.0	XW2Z-300B-R1
	5.0	XW2Z-500B-R1

Туре	Cable length L (m) *	Model
	0.5	XW2Z-050BU
	1.0	XW2Z-100BU
Normal	1.5	XW2Z-150BU
wiring	2.0	XW2Z-200BU
	3.0	XW2Z-300BU
	5.0	XW2Z-500BU

XW2Z-□□□**B-A** (For XW2F-40G7-IN32)

Type	Cable length L (m) *	Model
	1.0	XW2Z-100B-A
	1.5	XW2Z-150B-A
Normal wiring	2.0	XW2Z-200B-A
5	3.0	XW2Z-300B-A
	5.0	XW2Z-500B-A

*Cable length L (m)

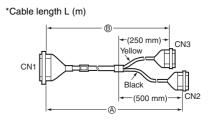


XW2Z- Grov XW2F-40G7-OUT32)

Туре	Cable length L (m) *	Model
	1.0	XW2Z-100B-B
	1.5	XW2Z-150B-B
Normal wiring	2.0	XW2Z-200B-B
9	3.0	XW2Z-300B-B
	5.0	XW2Z-500B-B

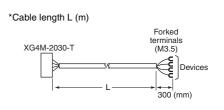
For 32-point, Connector-type Input Units (Group 2) for Programmable Controllers For 64-point, Connector-type Input Units for Programmable Controllers XW2Z-□□□D

Cable length L (m) *		Model
(A)	B	Model
1.0	0.75	XW2Z-100D
1.5	1.25	XW2Z-150D
2.0	1.75	XW2Z-200D
3.0	2.75	XW2Z-300D
5.0	4.75	XW2Z-500D
10.0	9.75	XW2Z-010D
15.0	14.75	XW2Z-15MD
20.0	19.75	XW2Z-20MD



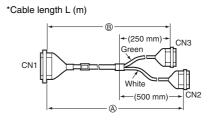
20-pole Cable with Discrete-wire Press-fit Terminals XW2Z-□□□F

Cable length L (m) *	Model
1.0	XW2Z-100F
1.5	XW2Z-150F
2.0	XW2Z-200F
3.0	XW2Z-300F
5.0	XW2Z-500F
10.0	XW2Z-010F
15.0	XW2Z-15MF
20.0	XW2Z-20MF



For 32-point, Connector-type Output Units (Group 2) for Programmable Controllers For 64-point, Connector-type Output Units for Programmable Controllers XW2Z-□□□L

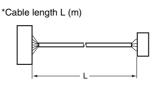
Cable len	gth L (m) *	Model
(A)	B	iwiodei
1.0	0.75	XW2Z-100L
1.5	1.25	XW2Z-150L
2.0	1.75	XW2Z-200L
3.0	2.75	XW2Z-300L
5.0	4.75	XW2Z-500L
10.0	9.75	XW2Z-010L
15.0	14.75	XW2Z-15ML
20.0	19.75	XW2Z-20ML



For 96-point, Connector-type I/O Units for Programmable Controllers

XW2Z-DDH-1 (For CS1-series I/O Unit Connection)

Special Connecting Cables *		
Cable length L (m)	Model	
0.5	XW2Z-050H-1	
1.0	XW2Z-100H-1	
1.5	XW2Z-150H-1	
2.0	XW2Z-200H-1	
3.0	XW2Z-300H-1	
5.0	XW2Z-500H-1	
7.0	XW2Z-700H-1	
10.0	XW2Z-010H-1	
1.0	XW2Z-100H-1G	
1.5	XW2Z-150H-1G	
2.0	XW2Z-200H-1G	
3.0	XW2Z-300H-1G	
5.0	XW2Z-500H-1G	



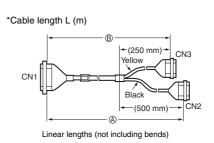
*Up to two cables required for each Programmable Controller I/O Unit.

Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.

Refer to the I/O Signal Tables on page 9.

XW2Z-DDH-2 (For CS1-series I/O Unit Connection)

Special Connecting Cables *		
Cable length L (m)		Model
A	B	Model
1.0	0.75	XW2Z-100H-2
1.5	1.25	XW2Z-150H-2
2.0	1.75	XW2Z-200H-2
3.0	2.75	XW2Z-300H-2
5.0	4.75	XW2Z-500H-2
10.0	9.75	XW2Z-010H-2
1.0	0.75	XW2Z-100H-2G
1.5	1.25	XW2Z-150H-2G
2.0	1.75	XW2Z-200H-2G
3.0	2.75	XW2Z-300H-2G
5.0	4.75	XW2Z-500H-2G



*Up to two cables required for each Programmable Controller I/O Unit.

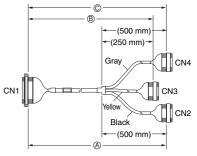
Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G. Refer to the I/O Signal Tables on page 9.

XW2Z-DDH-3 (For CS1-series I/O Unit Connection)

Special Connecting Cables *					
Model	Cable length L (m)				
Wodel	©	B	(A)		
XW2Z-100H-3	1.0	0.75	1.0		
XW2Z-150H-3	1.5	1.25	1.5		
XW2Z-200H-3	2.0	1.75	2.0		
XW2Z-300H-3	3.0	2.75	3.0		
XW2Z-500H-3	5.0	4.75	5.0		
XW2Z-010H-3	10.0	9.75	10.0		

*U	o to tw	o cables	required f	or each	Programmable	Controller	I/O Unit.

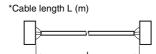
*Cable length L (m)



Linear lengths (not including bends)

For 32-point, MIL Connector-type I/O Units for Programmable Controllers XW2Z- $\square\square\square$ K

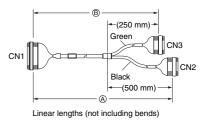
Cable length L (m) *	Model
0.25	XW2Z-C25K
0.5	XW2Z-C50K
1.0	XW2Z-100K
1.5	XW2Z-150K
2.0	XW2Z-200K
3.0	XW2Z-300K
5.0	XW2Z-500K



$XW2Z-\square\square\square N$

Cable len	gth L (m) *	Model
(A)	B	iwodei
1.0	0.75	XW2Z-100N
1.5	1.25	XW2Z-150N
2.0	1.75	XW2Z-200N
3.0	2.75	XW2Z-300N
5.0	4.75	XW2Z-500N
10.0	9.75	XW2Z-010N
15.0	14.75	XW2Z-15MN
20.0	19.75	XW2Z-20MN





$XW2Z-\Box\Box\Box X$

Cable length L (m) *	Model
0.5	XW2Z-C50X
1.0	XW2Z-100X
2.0	XW2Z-200X
3.0	XW2Z-300X
5.0	XW2Z-500X
10.0	XW2Z-010X

*Cable length L (m)



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	−25 to 80°C

^{*1.} Contact resistance for the Connector.
*2. Dielectric strength for the Connector.

Materials and Finish

Item	Pa	Part name		Materials and Finish	
		Housing		Fiber-glass reinforced PBT resin (UL94V-0)/black	
	XG4M-2030	Cover		Fiber-glass reinforced FBT Tesiff (OL34V-0)/black	
	XG4M-4030	Contacts	Mating end	Phosphor bronze/nickel base, 0.15-μm gold plating	
		Contacts	Press-fit end	Phosphor bronze/nickel base, 2.0-µm tin plating	
Connectors	XG4T-2004/4004	Strain Relief		Fiber-glass reinforced PBT resin (UL94V-0)/black	
		Housing		Polyester resin (UL94V-0)/black	
	FCN-367J024-AU/F *	0	Mating end	Copper alloy/gold plated	
	FCN-367J040-AU/F	Contacts	Press-fit end	Copper alloy/tin plated	
		Connecting scr		Steel/nickel plated	
Cable	UL2464 Interface Cable)		AWG28 or the equivalent	
Crimp terminal	Forked crimp terminal	terminal		1.25 Y AS 3.5 or the equivalent	

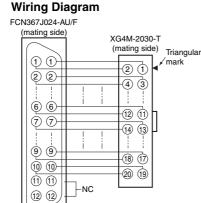
Note: These housings, contacts, and connecting screws are made by Fujitsu.

For 32-point, Connector-type I/O Units for Programmable Controllers

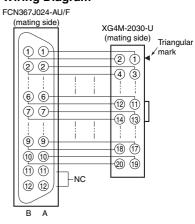
XW2F-20G7-IN16/-OUT16/XW2N-20G8-IN16)

XW2Z-□□□**AU** (For XW2D-20C6)







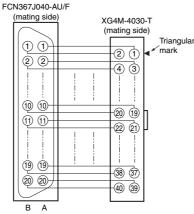


For 32-point, Connector-type I/O Units (Group 2) for Programmable Controllers For 64-point, Connector-type I/O Units for Programmable Controllers

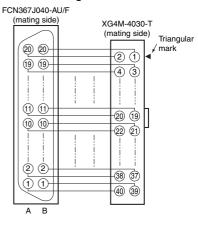
XW2Z-□□□**B** (For XW2D-40G6/XW2B-40G□)







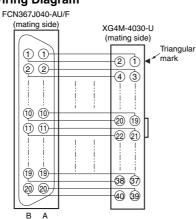
Reverse wiring



XW2Z- BU (For XW2D-40C6)







XW2Z-□□□**B-A** (For XW2F-40G7-IN32)





	_	•			
FCN3	867J040	-AU/F	XG	4M-403	30-T
	B20		[1	
	B19	<u> </u>		2	
	B18		-	3	
	B17			5	
	B16		-	7	
	B15			9	
	B14	-	-	11	
	B13	-	-	13	
	B12		-	15	
	B11		-	17	
	B10			19	
	B9			4	
	B8	-	-	6	
	B7	-	-	8	
	B6			10	
	B5			12	
	B4			14	
	B3			16	
	B2			18	
	B1			20	
	A20			21	
	A19			22	
	A18		-	23	
	A17		-	25	
	A16		-	27	
	A15			29	
	A14			31	
	A13	<u> </u>	-	33	
	A12	<u> </u>	-	35	
	A11	<u> </u>		37	
	A10			39	
	A9			24	
	A8	-		26	
	A7	<u> </u>		28	
	Λ.	i	ı	20	

XW2Z-□□□B-B (For XW2F-40G7-OUT32)



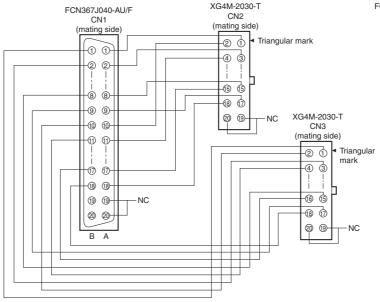
	J -	
FCN367J040)-AU/F >	(G <u>4M-403</u> 0-T
B20		1
B19		3
B18		- 5
B17		7
B16		9
B15		11
B14		13
B13		15
B12		17
B11		19
B10		2
B9		4
B8		6
B7		- 8
B6		10
B5		12
B4		14
B3		16
B2		18
B1		20
A20		21
A19		23
A18		25
A17		27
A16		29
A15		31
A14		33
A13		35
A12		37
A11		39
A10		22
A9		24
A8		26
A7		28
A6		30
A5		32
A4		34
A3		36
A2		38
A1	———	40

For 32-point, Connector-type Input Units (Group 2) for Programmable Controllers For 64-point, Connector-type Input Units for Programmable Controllers

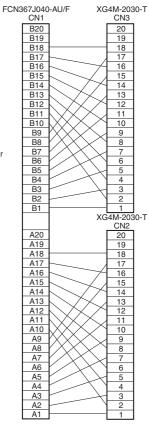
$XW2Z-\Box\Box\Box$



Wiring Diagram



Note: G79-I C- Connecting Cables for the G7TC have different wiring and cannot be used with the XW2C.

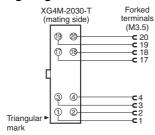


20-pole Cable with Discrete-wire Press-fit Terminals

XW2Z-□□□F



Wiring Diagram



Connector Pin No. Table

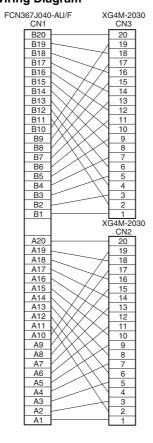
Forked terminal	No. of cores	Insulation color	Dot marks	Dot color	Connector pin No.
1	1	Blue		Red	1⊲
2	ı	Blue		Black	2
3	2	Pink		Red	3
4		Pink		Black	4
5	3	Green		Red	5
6	3	Green		Black	6
7	4	Orange		Red	7
8	4	Orange		Black	8
9	5	Gray		Red	9
10	3	Gray		Black	10
11	6	Blue		Red	11
12	0	Blue		Black	12
13	7	Pink		Red	13
14	,	Pink		Black	14
15	8	Green		Red	15
16		Green		Black	16
17	9	Orange		Red	17
18	9	Orange		Black	18
19	10	Gray		Red	19
20	10	Gray		Black	20

For 32-point, Connector-type Output Units (Group 2) for Programmable Controllers For 64-point, Connector-type Output Units for Programmable Controllers

XW2Z-□□□L



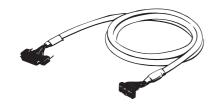
Wiring Diagram



For 96-point, Connector-type I/O Units for Programmable Controllers

XW2Z-UUH (For CS1-series I/O Unit Connection)

XW2Z-□□□H-1 XW2Z-□□□H-2 XW2Z-□□□H-3







I/O Signal Tables (Example Using CN1 on CS1W-OD291)

XW27-	-NON-N	Connecting	Cables
/\ \ \ \ L		COLLICCTION	Cubics

AWZZ-UUUH-U COI	officeting Cables	
XW2Z-□□□H-3	XW2□-20G□	5 6 7 COM NC
XW2Z-□□□H-2	XW2□-40G□ XW2□-20G□ XW2□-20G□ Word N (CN2) Word N+1 (CN2) Word N+2 (CN2) Word N+2 (CN2) Word N+2 (CN2) Word N+2 (CN2) (N N N N N N N N N N N N N N N N N N	7 COM NC 3 (5) (7) (9) (4) (6) (8) (20)
XW2Z-□□□H-1	XW2B-60G□ Word N (CN2) Word N+1 (CN2) Word N+2 (CN2) 0 1 2 3 4 5 6 7 COM 0 1 2 3 4 5 6 7 COM 0 1 2 3 4 5 6 7 COM 0 1 2 3 4 5 6 7 COM NC N 1 2 3 4 5 6 7 COM NC N 1 3 5 7 9 10 13 5 7 9 10 13 5 7 9 10 13 5 7 9 10 11 12 13 14 15 +V 8 9 10 11 12 13 14 15 +V 8 9 10 11 12 13 14 15 +V R 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1) [9 8 [6]

XW2Z-UUUH-UG/G7	'9-111C-1111-1111	Connecting Cables

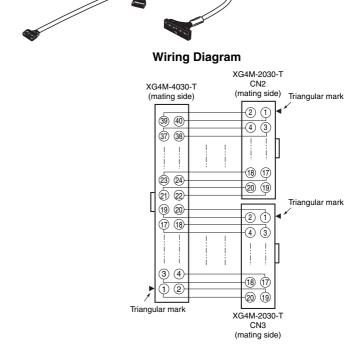
XW2Z-UUUH-UG/G/9-UUUC-UUU Connecting Cables				
	XW2□-20G□			
G79C	Word N (CN2)	Word N+1 (CN3)	Word N+2 (CN4)	
	+V NC 15 14 13 12 11 10 9 8	+V NC 15 14 13 12 11 10 9 8	+V NC 15 14 13 12 11 10 9 8	
	24681024682	2 4 6 8 0 2 4 6 8		
	NC COM 7 6 5 4 3 2 1 0	NC COM 7 6 5 4 3 2 1 0	NC COM 7 6 5 4 3 2 1 0	
XW2Z-□□□H-2G	XW2□-40G□		XW2□-20G□	
	Word N (CN2)	Word N+ 1 (CN2)	Word N +2 (CN3)	
	+V NC 15 14 13 12 11 10 9 8 +V		+V NC 15 14 13 12 11 10 9 8	
	1357911351192		0357903579	
			2 4 6 8 0 2 4 6 8	
	NC COM 7 6 5 4 3 2 1 0 No	C COM 7 6 5 4 3 2 1 0	NC COM 7 6 5 4 3 2 1 0	
XW2Z-□□□H-1G	XW2B-60G□			
	Word N (CN2)	Word N+1 (CN2) Wo	ord N+2 (CN2)	
	+V NC 15 14 13 12 11 10 9 8 +V NC 15 14 13 12 11 10 9 8 +V NC 15 14 13 12 11 10 9 8			
	1357911351192			
		2 24 26 28 30 32 34 36 38 40 42 4		
	NC COM 7 6 5 4 3 2 1 0 NC	C COM 7 6 5 4 3 2 1 0 NC CC	DM 7 6 5 4 3 2 1 0	

Note: The XW2Z- $\Box\Box$ H- \Box G I/O signal arrangement is oriented the same as the Connector Cable for the G79 I/O Relay Terminal.

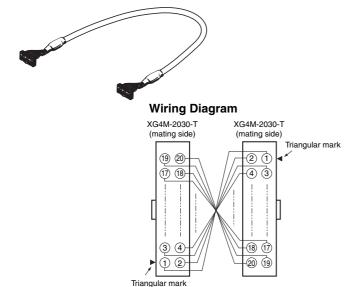
For 32-point, MIL Connector-type I/O Units for Programmable Controllers

 $XW2Z-\Box\Box\Box N$

$XW2Z-\Box\Box\Box K$ **Wiring Diagram** XG4M-4030-T (mating side) XG4M-4030-T (mating side) Triangular mark 39 40 21 37 38 4 3 21 22 -20 (19 19 20 -22 21 3 4 -38 37 40 39 (1) (2) Triangular mark Note: Connector pins are connected 1-to-1 so that pin numbers correspond.



$XW2Z-\Box\Box\Box X$



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

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Application Considerations

SUITABILITY FOR USE

OMRON shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, OMRON will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

- Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.
- Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.
- Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

OMRON shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

Disclaimers

CHANGE IN SPECIFICATIONS

Product specifications and accessories may be changed at any time based on improvements and other reasons.

It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the products may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON Warranty and Limitations of Liability.

ERRORS AND OMISSIONS

The information in this document has been carefully checked and is believed to be accurate; however, no responsibility is assumed for clerical, typographical, or proofreading errors, or omissions.

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In the interest of product improvement, specifications are subject to change without notice.



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