XW2Z

CSM_XW2Z_DS_E_5_4

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



Shielded

Ratings and Specifications

Rated current	1 1
Rated current	1 A
Rated voltage	125 VAC 30 VDC
Contact resistance	20 mΩ max. (at 20 mV, 100 mA max.) *1
Insulation resistance 100 M $Ω$ min. (at 500 VDC)	
Dielectric strength 500 VAC for 1 min (leakage current: 1 mA max.) *2	
Ambient operating temperature	-20 to +75°C (with no condensation or icing) *3

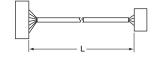
Note: This cable is for fixed parts. Do not use it for moving parts.

- *1. Contact resistance for the Connector
- *2. Dielectric strength for the Connector.

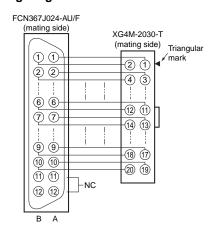
Ordering Information

FCN 24-pin - MIL 20-pin, Straight Wiring XW2Z-□□□A

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	0.5	XW2Z-050A	
	1.0	XW2Z-100A	
	1.5	XW2Z-150A	
	2.0	XW2Z-200A	
	3.0	XW2Z-300A	7.8 dia./R63
	5.0	XW2Z-500A	
	10.0	XW2Z-010A	
	15.0	XW2Z-15MA	
	20.0	XW2Z-20MA	



*Cable length L (m)



^{*3.} However, when bending the cable to perform wiring, maintenance, and other work, do so within the temperature range of 0 to 75°C in consideration of severing of the cable.

FCN 40-pin - MIL 40-pin, Straight Wiring

XW2Z-□□□B

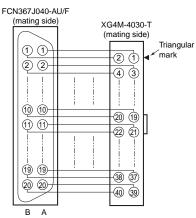
Appearance	Туре	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
		0.5	XW2Z-050B	
		1.0	XW2Z-100B	
		1.5	XW2Z-150B	
		2.0	XW2Z-200B	
	Straight wiring	3.0	XW2Z-300B	
		5.0	XW2Z-500B	
		10.0	XW2Z-010B	
		15.0	XW2Z-15MB	10.4 dia./R84
		20.0	XW2Z-20MB	
		0.5	XW2Z-050B-R1	
		1.0	XW2Z-100B-R1	
	Reverse	1.5	XW2Z-150B-R1	
	wiring	2.0	XW2Z-200B-R1	
		3.0	XW2Z-300B-R1	
		5.0	XW2Z-500B-R1	

*Cable length L (m)

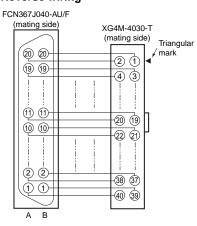


Wiring Diagram

• Straight wiring



• Reverse wiring



XW2Z-□□□B-A

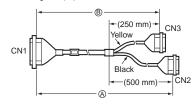
Appearance	Туре	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	Straight wiring	1.0	XW2Z-100B-A	
		1.5	XW2Z-150B-A	
		2.0	XW2Z-200B-A	10.4 dia./R84
		3.0	XW2Z-300B-A	
		5.0	XW2Z-500B-A	

B20	1
B19	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	33
A12	35
A11	37
A10	39
A9	24
A8	26
A7	28
A6	30
A5	32
A4	34
A3	36
A2	38
A1	40

FCN 40-pin - MIL 20-pin, MIL 20-pin XW2Z-□□□D

Appearance	Cable length L (m) *		Model	Sheath outer diameter (mm)/
	A	B		Minimum bending radius (mm)
	1.0	0.75	XW2Z-100D	
	1.5	1.25	XW2Z-150D	
	2.0	1.75	XW2Z-200D	
	3.0	2.75	XW2Z-300D	10.4 dia./R84
	5.0	4.75	XW2Z-500D	10.4 dia./104
	10.0	9.75	XW2Z-010D	
	15.0	14.75	XW2Z-15MD	
	20.0	19.75	XW2Z-20MD	

*Cable length L (m)



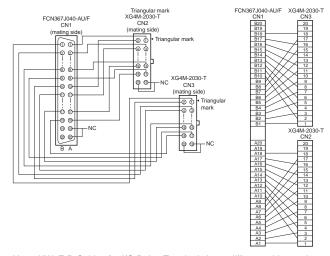
MIL 20-pin - Discrete-wire Press-fit Terminals XW2Z-□□□F

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	1.0	XW2Z-100F	
	1.5	XW2Z-150F	
	2.0	XW2Z-200F	
	3.0	XW2Z-300F	7.8 dia./R63
	5.0	XW2Z-500F	7.6 ula./R03
	10.0	XW2Z-010F	
	15.0	XW2Z-15MF	
	20.0	XW2Z-20MF	

*Cable length L (m)

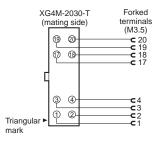


Wiring Diagram



Note: XW2Z-R Cables for I/O Relay Terminals have different wiring and cannot be used with the XW2C.

Wiring Diagram



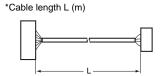
Connector Pin No. Table

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

FCN 56-pin - MIL 60-pin

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

A	Special Connect	ing Cables *	Sheath outer diameter (mm)/	
Appearance	Cable length L (m)	Model	Minimum bending radius (mm)	
	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	12.1 dia./R99	
	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		

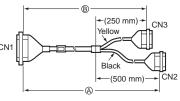


FCN 56-pin - MIL 20-pin, MIL 40-pin

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

	Spe	ecial Connec	Sheath outer diameter (mm)/ Minimum bending radius (mm)	
Appearance	Cable length L (m)			Model
	(A)	B	Wodei	J
	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	12.1 dia./R99
D	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	





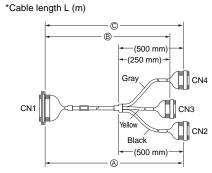
Linear lengths (not including bends)

FCN 56-pin - MIL 20-pin, MIL 20-pin, MIL 20-pin

XW2Z- Gror CS1-series I/O Unit Connection)

	Special Connecting Cables *				
Appearance	Cable length L (m)			Madal	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	A	B	C	Model	
	1.0	0.75	1.0	XW2Z-100H-3	
	1.5	1.25	1.5	XW2Z-150H-3	
	2.0	1.75	2.0	XW2Z-200H-3	40.4 11. /200
	3.0	2.75	3.0	XW2Z-300H-3	12.1 dia./R99
	5.0	4.75	5.0	XW2Z-500H-3	
	10.0	9.75	10.0	XW2Z-010H-3	

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



Linear lengths (not including bends)

^{*}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 5.

^{*}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 5.

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

XW2Z-□□□H-□ Connecting Cables

	. •
XW2Z-□□□H-3	XW2□-20G□ Word N (CN2) Word N+1 (CN3) Word N+2 (CN4) 0 1 2 3 4 5 6 7 COM NC
XW2Z-□□□H-2	XW2□-40G□ XW2□-20G□ XW2□-20G□ XW2□-20G□ XW2□-20G□ XW2□-20G□ XW2□-20G□ XW2□-20G□ XW2□-20G□ XW2
XW2Z-□□□H-1	XW2B-60G□

XW2Z-□□□H-□G/XW2Z-R□□□C-□□□-□□□ Connecting Cables

	XW2□-20G□		
XW2Z-R000C-000-000		Word N+1 (CN3) +V NC 15 14 13 12 11 10 9 8 ① ③ ⑤ ⑦ ⑨ ① ③ ⑤ ⑦ ⑨ ② ④ ⑥ ⑧ ② ④ ⑥ ◎ ② NC COM 7 6 5 4 3 2 1 0	Word N+2 (CN4) +V NC 15 14 13 12 11 10 9 8 ① ③ ⑤ ⑦ ⑨ ① ③ ⑤ ⑦ ⑨ ② ④ ⑥ ⑧ ⑩ ② ④ ⑥ ⑧ ② NC COM 7 6 5 4 3 2 1 0
XW2Z-□□□H-2G	XW2□-40G□ Word N (CN2) +V NC 15 14 13 12 11 10 9 8 +V NC ① ③ ⑤ ⑦ ⑨ ⑪ ⑬ ⑰ ⑩ ⑩ ② ② ② ④ ⑥ ⑧ ⑩ ⑫ ⑭ ⑯ ⑭ ❷ ②	Word N+ 1 (CN2) C 15 14 13 12 11 10 9 8 + D 5 7 9 3 3 5 7 9 [3	Word N +2 (CN3) V NC 15 14 13 12 11 10 9 8 □ ③ ⑤ ⑦ ⑨ ⑪ ③ ⑤ ⑰ ⑩ ② ④ ⑥ ⑧ ⑩ ② ④ ⑥ ◎ ②
XW2Z-□□□H-1G	NC COM 7 6 5 4 3 2 1 0 NC COM 7 6 5 4 3 3 2 1 0 N	Word N+1 (CN2) Word C 15 14 13 12 11 10 9 8 +V NC 1: 3 3 7 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	9474951535555

Note: The XW2Z- $\square\square$ H- \square G I/O signal arrangement is oriented the same as the XW2Z-R Cables for I/O Relay Terminals.

FCN 40-pin - MIL 40-pin, Straight Wiring

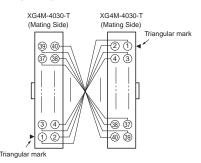
XW2Z-□□□K

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	0.25	XW2Z-C25K	
	0.5	XW2Z-C50K	
	1.0	XW2Z-100K	10.4 dia./R84
	1.5	XW2Z-150K	
	2.0	XW2Z-200K	
	3.0	XW2Z-300K	
	5.0	XW2Z-500K	

*Cable length L (m)



Wiring Diagram

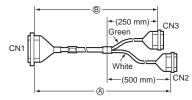


Note: Wire the pins 1:1 so that the Connector pin numbers match.

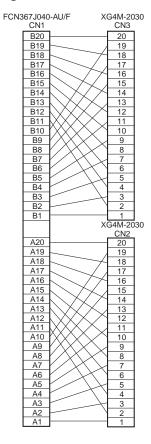
FCN 40-pin - MIL 20-pin, MIL 20-pin XW2Z-□□□L

Appearance	Cable length L (m) *		Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	A	B		willing radius (illin)
	1.0	0.75	XW2Z-100L	10.4 dia./R84
	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	

*Cable length L (m)



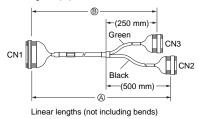
Wiring Diagram

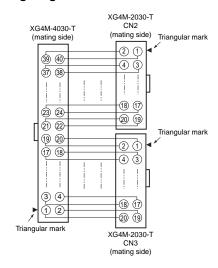


MIL 40-pin - MIL 20-pin, MIL 20-pin XW2Z-□□□N

Appearance	Cable length L (m) *		Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	A	B		minimum bending radius (min)
	1.0	0.75	XW2Z-100N	10.4 dia./R84
	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	

*Cable length L (m)





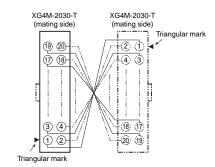
MIL 20-pin - MIL 20-pin, Straight Wiring

XW2Z-□□□X

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)	
	0.5	XW2Z-C50X		
	1.0	XW2Z-100X		
	2.0	XW2Z-200X	7.8 dia./R63	
	3.0	XW2Z-300X		
	5.0	XW2Z-500X		
	10.0	XW2Z-010X	<u> </u>	

*Cable length L (m)





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

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