XW2Z

CSM_XW2Z_DS_E_5_7

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

Shielded

Ratings and Specifications

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 MΩ 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.
*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.

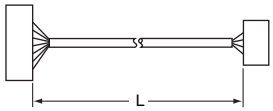
Ordering Information

FCN 24-pin - MIL 20-pin, Straight Wiring

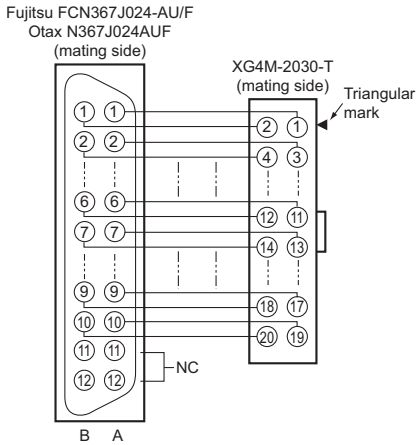
XW2Z-□□□A

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	0.5	**XW2Z-050A**	7.8 dia./R63
	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**	

*Cable length L (m)



Wiring Diagram

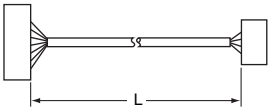


FCN 40-pin - MIL 40-pin, Straight Wiring

XW2Z-□□□B

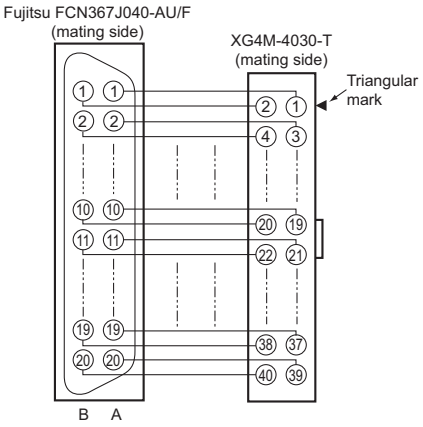
Appearance	Type	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	Straight wiring	0.5	**XW2Z-050B**	10.4 dia./R84
		1.0	**XW2Z-100B**	
		1.5	**XW2Z-150B**	
		2.0	**XW2Z-200B**	
		3.0	**XW2Z-300B**	
		5.0	**XW2Z-500B**	
		10.0	**XW2Z-010B**	
		15.0	**XW2Z-15MB**	
		20.0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

*Cable length L (m)

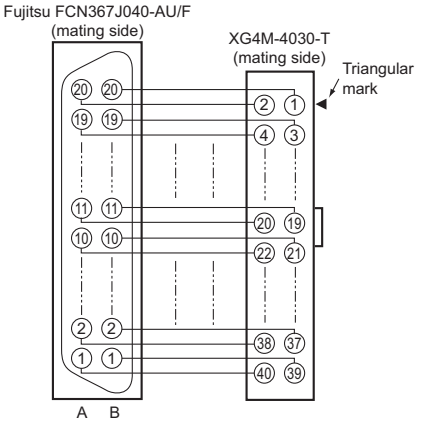


Wiring Diagram

• Straight wiring



• Reverse wiring



XW2Z-□□□B-A

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

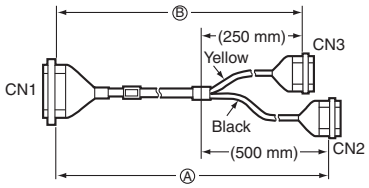
Wiring Diagram

Fujitsu FCN367J040-AU/F	XG4M-4030-T
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

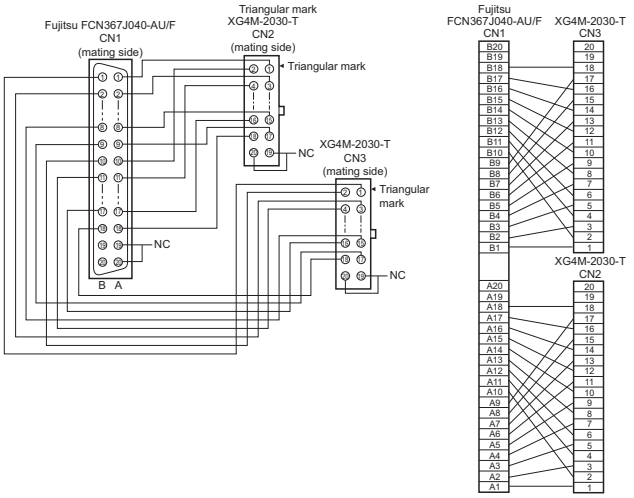
FCN 40-pin - MIL 20-pin, MIL 20-pin
XW2Z-□□□D

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

*Cable length L (m)

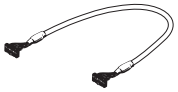


Wiring Diagram

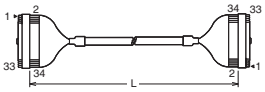


Note: XW2Z-R Cables for I/O Relay Terminals have different wiring and cannot be used with the XW2C.

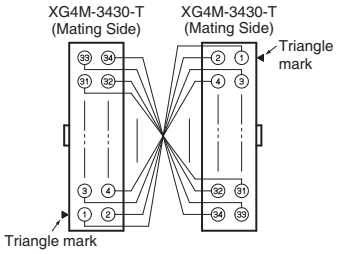
MIL 34-pin - MIL 34-pin, Straight Wiring
XW2Z-□□□EE

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	0.5	**XW2Z-050EE**	9.8 dia./R79
	1	**XW2Z-100EE**	
	1.5	**XW2Z-150EE**	
	2	**XW2Z-200EE**	
	3	**XW2Z-300EE**	
	5	**XW2Z-500EE**	

*Cable length L (m)



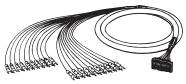
Wiring Diagram



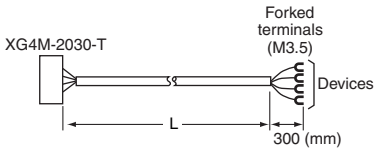
Note: Wire the pins 1:1 so that the Connector pin numbers match.

MIL 20-pin - Discrete-wire Press-fit Terminals

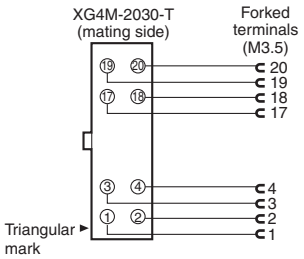
XW2Z-□□□F

Appearance	Cable length L (m) *	Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	1.0	**XW2Z-100F**	7.8 dia./R63
	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**	

*Cable length L (m)



Wiring Diagram

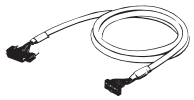


Connector Pin No. Table

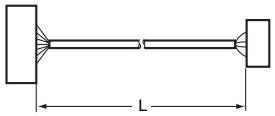
Forked terminal	No. of cores	Insulation color	Dot marks	Dot color	Connector pin No.
1	1	Blue	□	Red	1◁
2		Blue	□	Black	2
3	2	Pink	□	Red	3
4		Pink	□	Black	4
5	3	Green	□	Red	5
6		Green	□	Black	6
7	4	Orange	□	Red	7
8		Orange	□	Black	8
9	5	Gray	□	Red	9
10		Gray	□	Black	10
11	6	Blue	□□	Red	11
12		Blue	□□	Black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

FCN 56-pin - MIL 60-pin

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

Appearance	Special Connecting Cables *		Sheath outer diameter (mm)/ Minimum bending radius (mm)
	Cable length L (m)	Model	
	0.5	XW2Z-050H-1	12.1 dia./R99
	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	

*Cable length L (m)



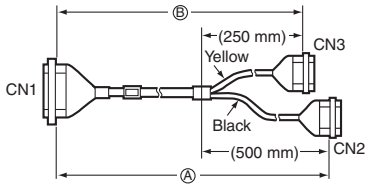
*Up to two cables required for each Programmable Controller I/O Unit.
Note: CS1 signal names connected to the XW2D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.
Refer to the *I/O Signal Tables* on page 6.

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

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

Appearance	Special Connecting Cables *			Sheath outer diameter (mm)/ Minimum bending radius (mm)
	Cable length L (m)		Model	
	Ⓐ	Ⓑ		
	1.0	0.75	XW2Z-100H-2	12.1 dia./R99
	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	
	3.0	2.75	XW2Z-300H-2G	
	5.0	4.75	XW2Z-500H-2G	

*Cable length L (m)



Linear lengths (not including bends)

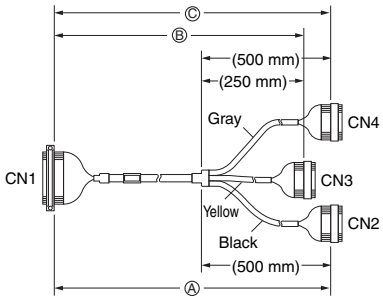
*Up to two cables required for each Programmable Controller I/O Unit.
Note: CS1 signal names connected to the XW2D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.
Refer to the *I/O Signal Tables* on page 6.

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

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

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

*Cable length L (m)



Linear lengths (not including bends)

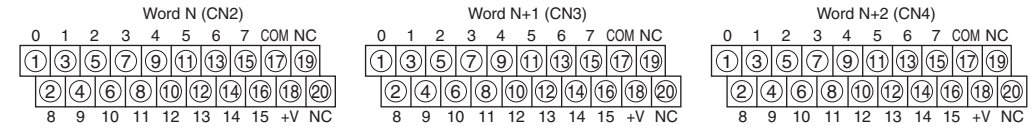
*Up to two cables required for each Programmable Controller I/O Unit.

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

XW2Z-□□□H-□ Connecting Cables

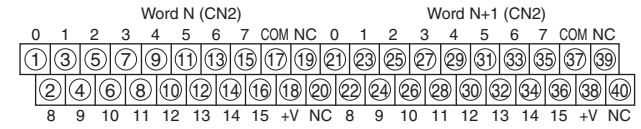
XW2Z-□□□H-3

XW2□-20G□

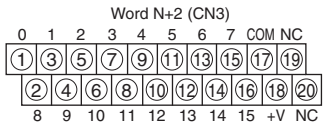


XW2Z-□□□H-2

XW2□-40G□



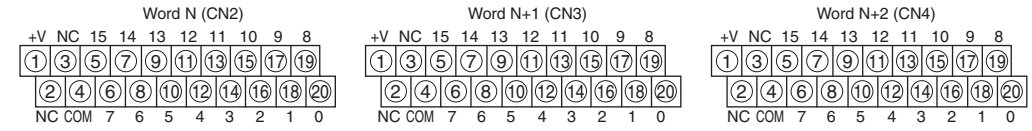
XW2□-20G□



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

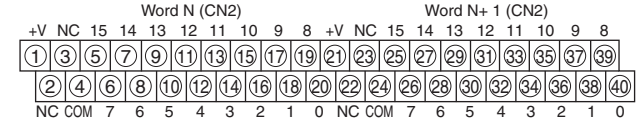
XW2Z-R□□□C-□□□-□□□

XW2□-20G□

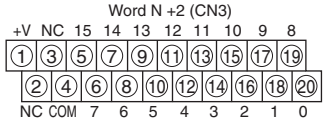


XW2Z-□□□H-2G

XW2□-40G□



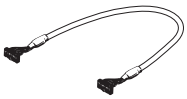
XW2□-20G□



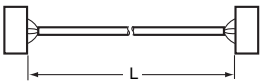
Note: The XW2Z-□□□H-□G I/O signal arrangement is oriented the same as the XW2Z-R Cables for I/O Relay Terminals.

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

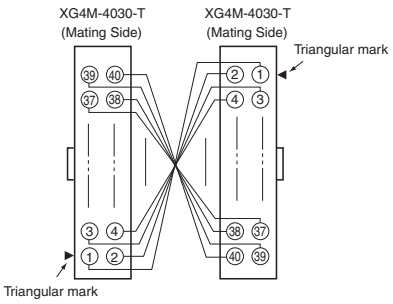
XW2Z-□□□K

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

*Cable length L (m)



Wiring Diagram

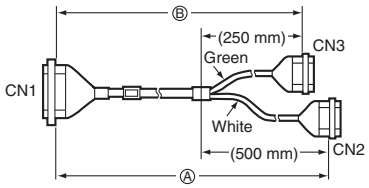


Note: Wire the pins 1:1 so that the Connector pin numbers match.

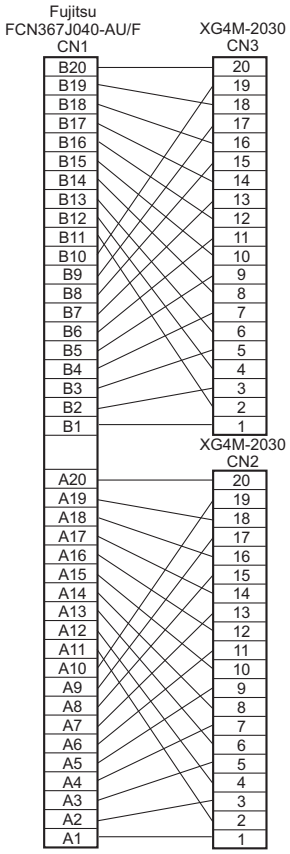
FCN 40-pin - MIL 20-pin, MIL 20-pin
XW2Z-□□□L

Appearance	Cable length L (m) *		Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	Ⓐ	Ⓑ		
	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**	

*Cable length L (m)



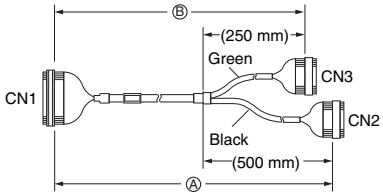
Wiring Diagram



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

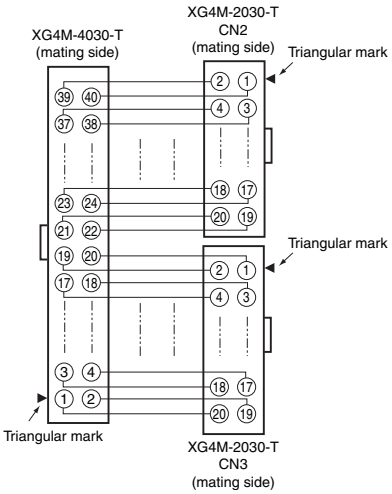
Appearance	Cable length L (m) *		Model	Sheath outer diameter (mm)/ Minimum bending radius (mm)
	Ⓐ	Ⓑ		
	1.0	0.75	**XW2Z-100N**	10.4 dia./R84
	1.5	1.25	**XW2Z-150N**	
	2.0	1.75	**XW2Z-200N**	
	3.0	2.75	**XW2Z-300N**	
	5.0	4.75	**XW2Z-500N**	
	10.0	9.75	**XW2Z-010N**	
	15.0	14.75	**XW2Z-15MN**	

*Cable length L (m)



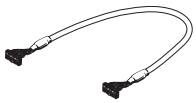
Linear lengths (not including bends)

Wiring Diagram

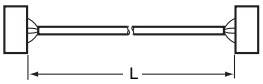


MIL 20-pin - MIL 20-pin, Straight Wiring

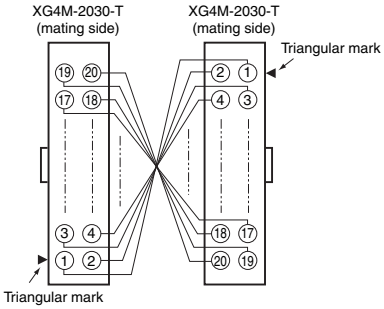
XW2Z-□□□X

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

*Cable length L (m)



Wiring Diagram



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

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