XW2Z

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

Ordering Information

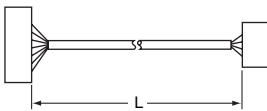### For 32-point, Connector-type I/O Units for Programmable Controllers

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

*Cable length L (m)

XW2Z-□□□AU (For XW2D-20C6)

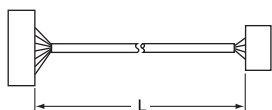| Cable length L (m) *	Model
0.5	XW2Z-050AU
1.0	XW2Z-100AU
1.5	XW2Z-150AU
2.0	XW2Z-200AU
3.0	XW2Z-300AU
5.0	XW2Z-500AU

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**
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)

XW2Z-☐☐☐BU (For XW2D-40C6)

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

XW2Z-☐☐☐B-B (For XW2F-40G7-OUT32)

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

*Cable length L (m)
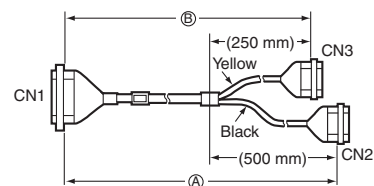
## 20-pole Cable with Discrete-wire Press-fit Terminals

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**

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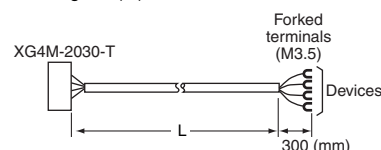
For 32-point, Connector-type Output Units (Group 2) for Programmable Controllers
For 64-point, Connector-type Output Units for Programmable Controllers
XW2Z-□□□L

Cable length L (m) *		Model
Ⓐ	Ⓑ	
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**
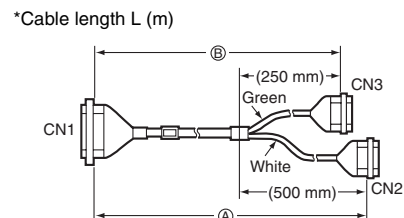
*Cable length L (m)

For 96-point, Connector-type I/O Units for Programmable Controllers
XW2Z-□□□H-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**
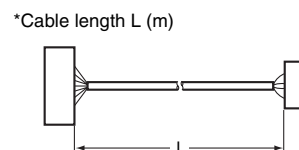
*Cable length L (m)

*Up to two cables required for each Programmable Controller I/O Unit.
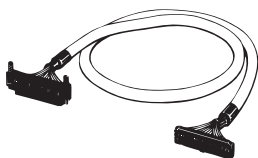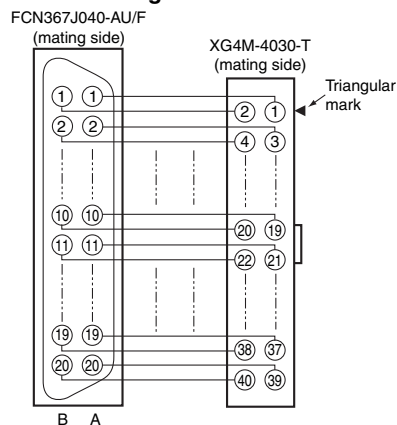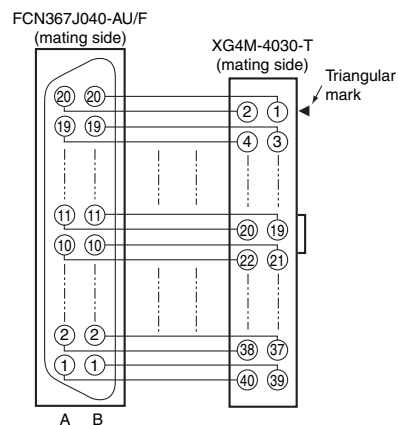Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.
     Refer to the *I/O Signal Tables* on page 9.

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

Special Connecting Cables *		
Cable length L (m)		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**
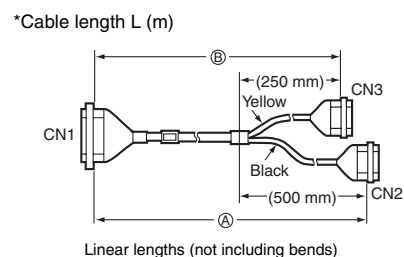
*Cable length L (m)

Linear lengths (not including bends)

*Up to two cables required for each Programmable Controller I/O Unit.
Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.
     Refer to the *I/O Signal Tables* on page 9.

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

Special Connecting Cables *			
Cable length L (m)			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
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

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

Linear lengths (not including bends)
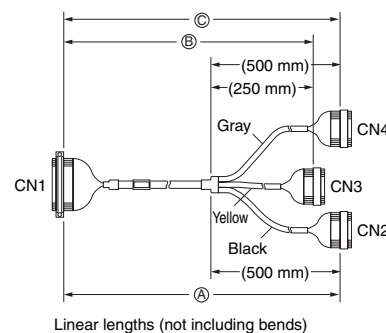
For 32-point, MIL Connector-type I/O Units for Programmable Controllers

XW2Z-☐☐☐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-☐☐☐N

Cable length L (m) *		Model
Ⓐ	Ⓑ	
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-☐☐☐X

Linear lengths (not including bends)
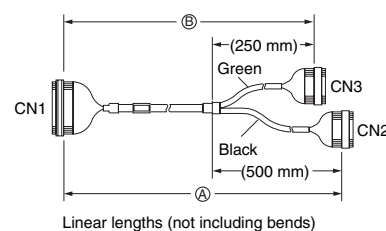
Cable length L (m) *	Model
0.5	XW2Z-C50X
1.0	XW2Z-100X
2.0	XW2Z-200X
3.0	XW2Z-300X
5.0	XW2Z-500X
10.0	XW2Z-010X
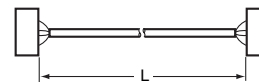
Ratings and Specifications

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

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

Appearance and Wiring Diagrams

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)
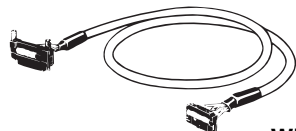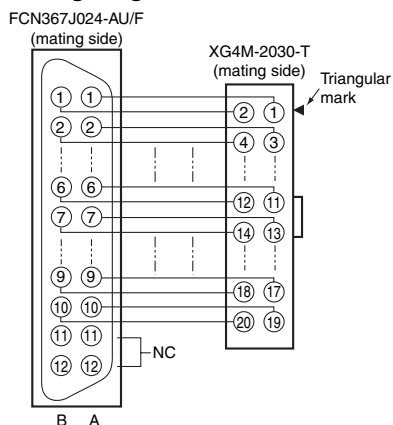
XW2Z-□□□AU
(For XW2D-20C6)

Wiring Diagram
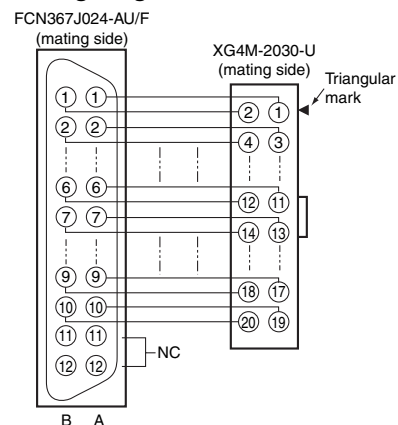
FCN367J024-AU/F (mating side)
XG4M-2030-T (mating side) — Triangular mark

Wiring Diagram

FCN367J024-AU/F (mating side)
XG4M-2030-U (mating side) — Triangular mark

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□)

Wiring Diagram

• **Normal wiring**

FCN367J040-AU/F (mating side)
XG4M-4030-T (mating side) — Triangular mark

• **Reverse wiring**

FCN367J040-AU/F (mating side)
XG4M-4030-T (mating side) — Triangular mark

XW2Z-□□□BU (For XW2D-40C6)

Wiring Diagram

FCN367J040-AU/F (mating side)
XG4M-4030-U (mating side) — Triangular mark
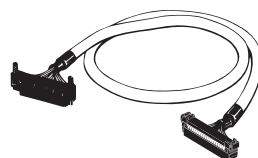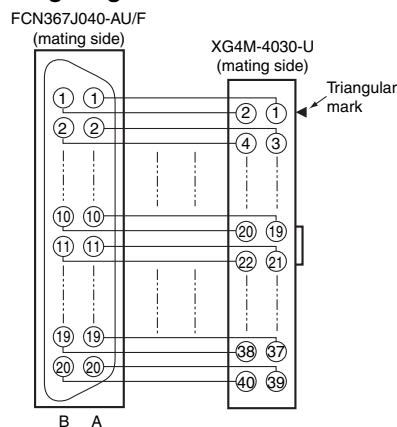
XW2Z-□□□B-A (For XW2F-40G7-IN32)

Wiring Diagram
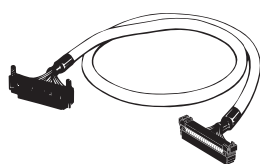
FCN367J040-AU/F	XG4M-4030-T
B20	1
B19	2
B18	3
B17	5
B16	7
B15	9
B14	11
B13	13
B12	15
B11	17
B10	19
B9	4
B8	6
B7	8
B6	10
B5	12
B4	14
B3	16
B2	18
B1	20
A20	21
A19	22
A18	23
A17	25
A16	27
A15	29
A14	31
A13	33
A12	35
A11	37
A10	39
A9	24
A8	26
A7	28
A6	30
A5	32
A4	34
A3	36
A2	38
A1	40

XW2Z-□□□B-B (For XW2F-40G7-OUT32)

Wiring Diagram
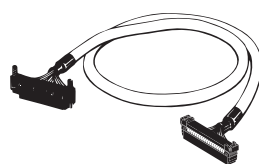
FCN367J040-AU/F	XG4M-4030-T
B20	1
B19	3
B18	5
B17	7
B16	9
B15	11
B14	13
B13	15
B12	17
B11	19
B10	2
B9	4
B8	6
B7	8
B6	10
B5	12
B4	14
B3	16
B2	18
B1	20
A20	21
A19	23
A18	25
A17	27
A16	29
A15	31
A14	33
A13	35
A12	37
A11	39
A10	22
A9	24
A8	26
A7	28
A6	30
A5	32
A4	34
A3	36
A2	38
A1	40

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

XW2Z-□□□D
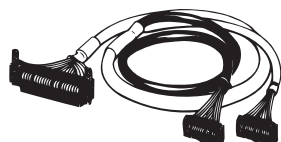
Wiring Diagram
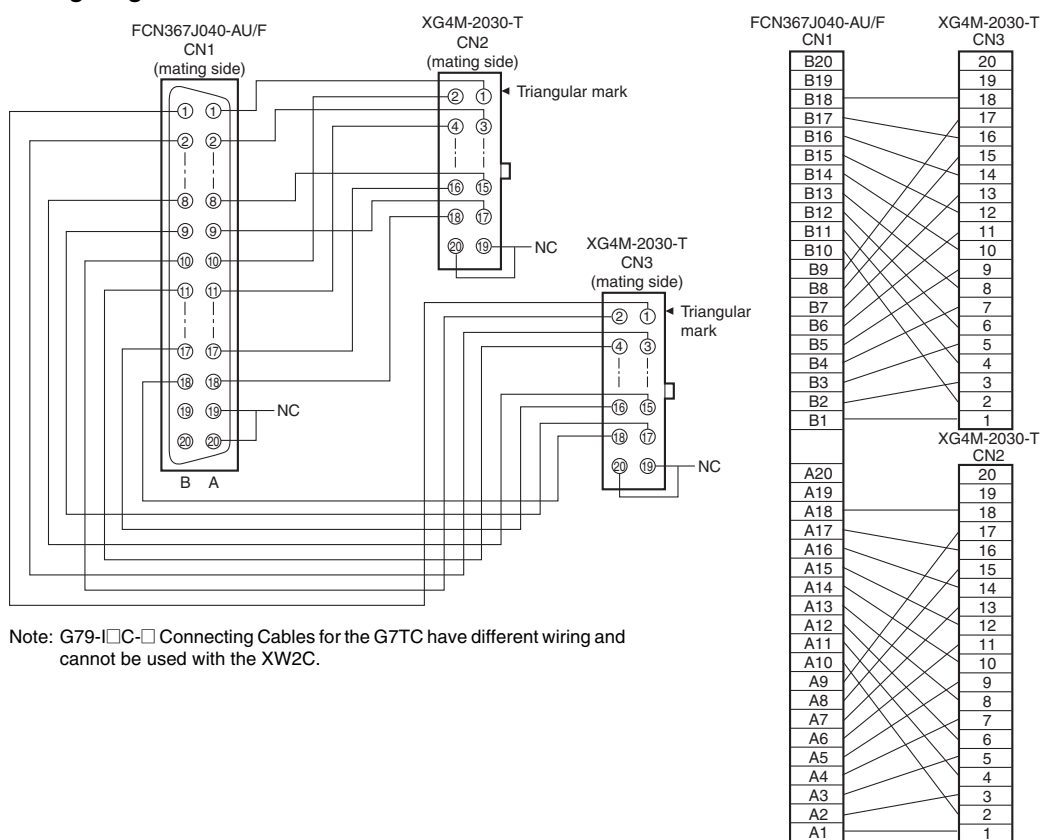
Note: G79-I□C-□ Connecting Cables for the G7TC have different wiring and cannot be used with the XW2C.

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

XW2Z-□□□F

Wiring Diagram

XG4M-2030-T (mating side)

Forked terminals (M3.5)

Triangular ► mark
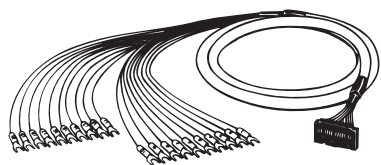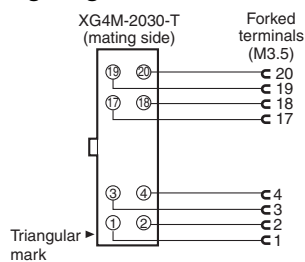
Connector Pin No. Table

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

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

XW2Z-□□□L
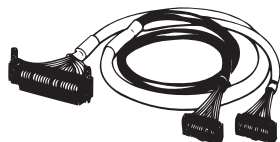
Wiring Diagram
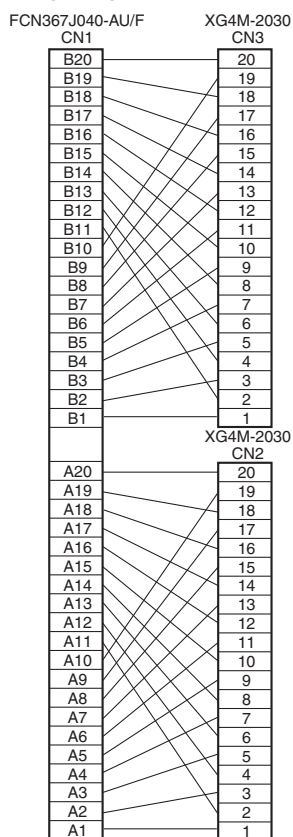
For 96-point, Connector-type I/O Units for Programmable Controllers

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

XW2Z-□□□H-1	XW2Z-□□□H-2	XW2Z-□□□H-3
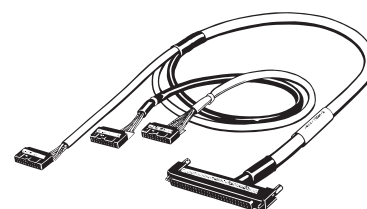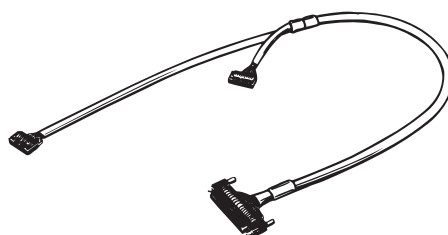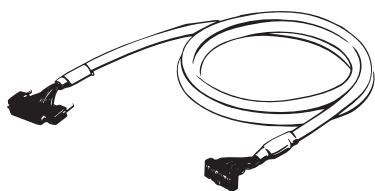
I/O Signal Tables (Example Using CN1 on CS1W-OD291)

XW2Z-□□□H-□ Connecting Cables

XW2Z-□□□H-3 — XW2□-20G□

Word N (CN2)
	0	1	2	3	4	5	6	7	COM	NC
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	8	9	10	11	12	13	14	15	+V	NC

Word N+1 (CN3)
	0	1	2	3	4	5	6	7	COM	NC
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	8	9	10	11	12	13	14	15	+V	NC

Word N+2 (CN4)
	0	1	2	3	4	5	6	7	COM	NC
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	8	9	10	11	12	13	14	15	+V	NC

XW2Z-□□□H-2 — XW2□-40G□

Word N (CN2) / Word N+1 (CN2)
	0	1	2	3	4	5	6	7	COM	NC	0	1	2	3	4	5	6	7	COM	NC
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲	㉑	㉓	㉕	㉗	㉙	㉛	㉝	㉟	㊲	㊴
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳	㉒	㉔	㉖	㉘	㉚	㉜	㉞	㊱	㊳	㊵
	8	9	10	11	12	13	14	15	+V	NC	8	9	10	11	12	13	14	15	+V	NC

XW2□-20G□ — Word N+2 (CN3)
	0	1	2	3	4	5	6	7	COM	NC
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	8	9	10	11	12	13	14	15	+V	NC

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	NC	NC	NC
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲	㉑	㉓	㉕	㉗	㉙	㉛	㉝	㉟	㊴	㊶	㊸	㊺	㊼	㊾	51	53	55	57	59	
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳	㉒	㉔	㉖	㉘	㉚	㉜	㉞	㊱	㊳	㊵	㊷	㊹	㊻	㊽	50	52	54	56	58	60
	8	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	NC	NC	NC

XW2Z-□□□H-□G/G79-□□□C-□□□-□□□ Connecting Cables

G79-□□□C-□□□□□ — XW2□-20G□

Word N (CN2)
	+V	NC	15	14	13	12	11	10	9	8
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	NC	COM	7	6	5	4	3	2	1	0

Word N+1 (CN3)
	+V	NC	15	14	13	12	11	10	9	8
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	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	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	NC	COM	7	6	5	4	3	2	1	0

XW2Z-□□□H-2G — XW2□-40G□

Word N (CN2) / Word N+1 (CN2)
	+V	NC	15	14	13	12	11	10	9	8	+V	NC	15	14	13	12	11	10	9	8
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲	㉑	㉓	㉕	㉗	㉙	㉛	㉝	㉟	㊲	㊴
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳	㉒	㉔	㉖	㉘	㉚	㉜	㉞	㊱	㊳	㊵
	NC	COM	7	6	5	4	3	2	1	0	NC	COM	7	6	5	4	3	2	1	0

XW2□-20G□ — Word N+2 (CN3)
	+V	NC	15	14	13	12	11	10	9	8
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳
	NC	COM	7	6	5	4	3	2	1	0

XW2Z-□□□H-1G — XW2B-60G□

Word N (CN2) / Word N+1 (CN2) / Word 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
	①	③	⑤	⑦	⑨	⑪	⑬	⑮	⑰	⑲	㉑	㉓	㉕	㉗	㉙	㉛	㉝	㉟	㊴	㊶	㊸	㊺	㊼	㊾	51	53	55	57	59	
	②	④	⑥	⑧	⑩	⑫	⑭	⑯	⑱	⑳	㉒	㉔	㉖	㉘	㉚	㉜	㉞	㊱	㊳	㊵	㊷	㊹	㊻	㊽	50	52	54	56	58	60
	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

Note: The XW2Z-□□□H-□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
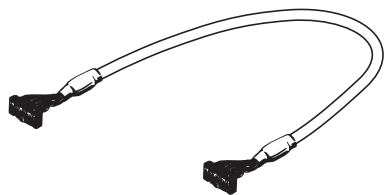
XW2Z-☐☐☐K

XW2Z-☐☐☐N

Wiring Diagram

XG4M-4030-T
(mating side)

XG4M-4030-T
(mating side)

Triangular mark

㊴ ㊵ ② ①
㊲ ㊳ ④ ③

㉑ ㉒ ⑳ ⑲
⑲ ⑳ ㉒ ㉑

③ ④ ㊳ ㊲
① ② ㊵ ㊴

Triangular mark

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

Wiring Diagram

XG4M-4030-T
(mating side)

XG4M-2030-T
CN2 (mating side)

Triangular mark

㊴ ㊵ ② ①
㊲ ㊳ ④ ③

㉓ ㉔ ⑱ ⑰
㉑ ㉒ ⑳ ⑲

Triangular mark

⑲ ⑳ ② ①
⑰ ⑱ ④ ③

③ ④ ⑱ ⑰
① ② ⑳ ⑲

Triangular mark

XG4M-2030-T
CN3 (mating side)

XW2Z-☐☐☐X

Wiring Diagram

XG4M-2030-T
(mating side)

XG4M-2030-T
(mating side)

Triangular mark

⑲ ⑳ ② ①
⑰ ⑱ ④ ③

③ ④ ⑱ ⑰
① ② ⑳ ⑲

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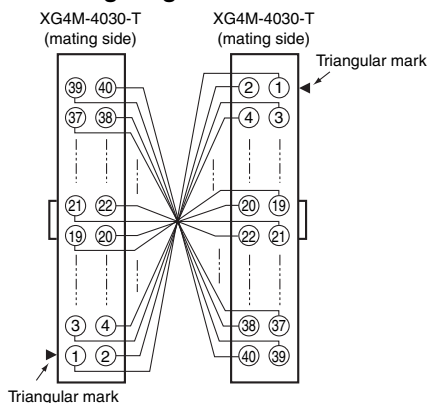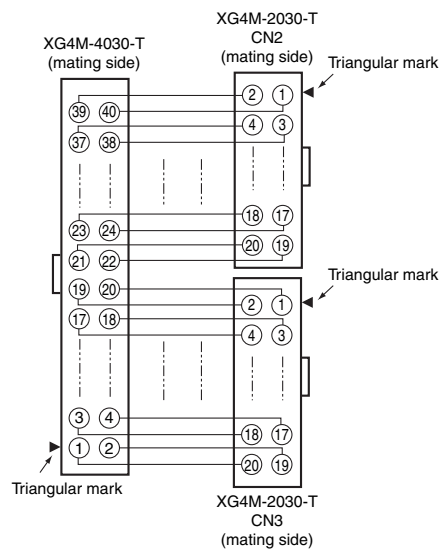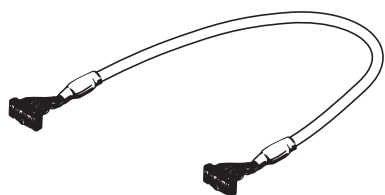
Note: Connector pins are connected 1-to-1 so
that pin numbers correspond.

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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 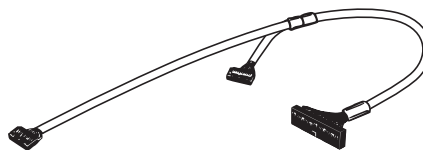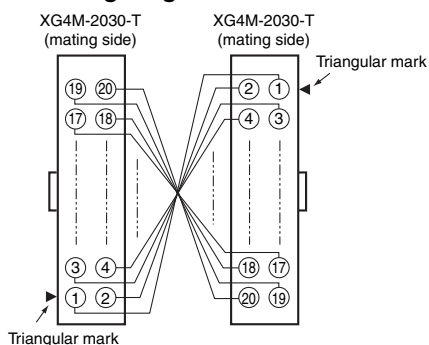complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

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2012.11

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