

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



Shielded

## Ordering Information

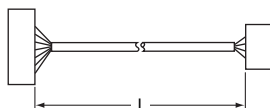
### For 32-point, Connector-type I/O Units for Programmable Controllers

**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 |

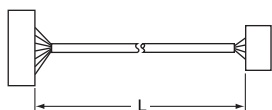
## For 32-point, Connector-type I/O Units (Group 2) for Programmable Controllers

## 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    |
| Reverse wiring | 20.0                 | XW2Z-20MB    |
|                | 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 |

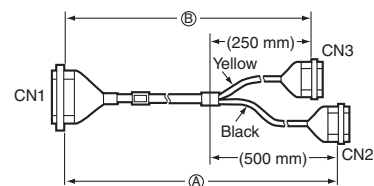
## For 32-point, Connector-type Input Units (Group 2) for Programmable Controllers

## For 64-point, Connector-type Input Units for Programmable Controllers

XW2Z-□□□D

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

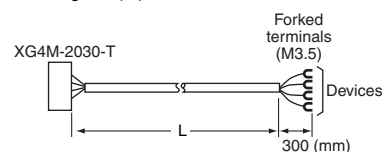


## 20-pole Cable with Discrete-wire Press-fit Terminals

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)



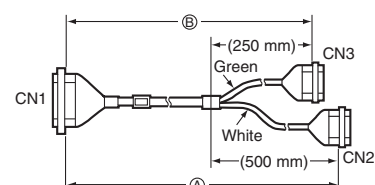
## For 32-point, Connector-type Output Units (Group 2) for Programmable Controllers

## For 64-point, Connector-type Output Units for Programmable Controllers

XW2Z-□□□L

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



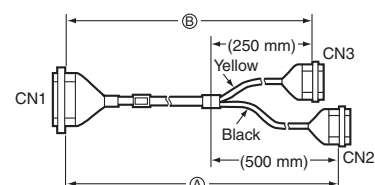
\*Up to two cables required for each Programmable Controller I/O Unit.

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.

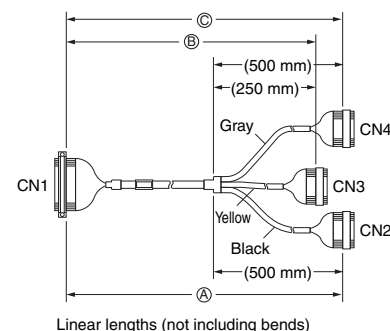
Note: CS1 signal names connected to the XW2B/D are different for the XW2Z-□□□H-□ and the XW2Z-□□□H-□G.  
Refer to the I/O Signal Tables on page 9.

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

| Special Connecting Cables * |      |      |             |
|-----------------------------|------|------|-------------|
| Cable length L (m)          |      |      | Model       |
| (A)                         | (B)  | (C)  |             |
| 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.

\*Cable length L (m)

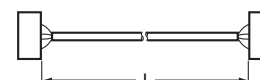


## For 32-point, MIL Connector-type I/O Units for Programmable Controllers

### 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 |

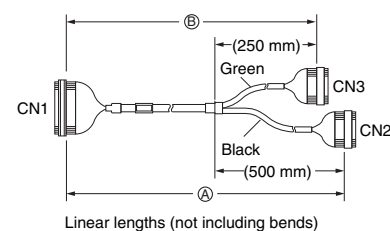
\*Cable length L (m)



### XW2Z-□□□N

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

\*Cable length L (m)



### XW2Z-□□□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

|                                      |   |
|--------------------------------------|---|
| <b>Rated current</b>                 | 1 A   |
| <b>Rated voltage</b>                 | 125 VAC 24 VDC                                    |
| <b>Contact resistance</b>            | 20 mΩ max. (at 20 mV, 100 mA max.) *1             |
| <b>Insulation resistance</b>         | 100 MΩ min. (at 500 VDC)                          |
| <b>Dielectric strength</b>           | 500 VAC for 1 min (leakage current: 1 mA max.) *2 |
| <b>Ambient operating temperature</b> | –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<br>XG4M-4030                 | Housing          |               | Fiber-glass reinforced PBT resin (UL94V-0)/black  |
|                |  | Cover            |               |   |
|                |  | Contacts         | Mating end    | Phosphor bronze/nickel base, 0.15-μm gold plating |
|                |  |                  | 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 *<br>FCN-367J040-AU/F | Housing          |               | Polyester resin (UL94V-0)/black                   |
|                |  | Contacts         | Mating end    | Copper alloy/gold plated                          |
|                |  |                  | Press-fit end | Copper alloy/tin plated                           |
|                |  | Connecting screw |               | Steel/nickel plated                               |
| Cable          | UL2464 Interface Cable                 |                  |               | AWG28/Shielded                                    |
| Crimp terminal | Forked crimp terminal                  |                  |               | 1.25 Y AS 3.5 or the equivalent                   |

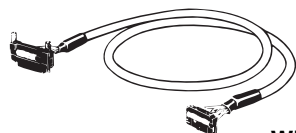
Note: These housings, contacts, and connecting screws are made by Fujitsu.

## Appearance and Wiring Diagrams

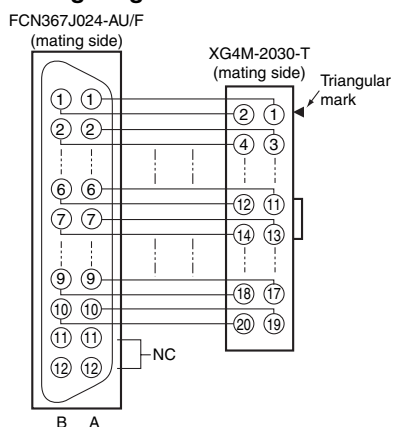
### For 32-point, Connector-type I/O Units for Programmable Controllers

**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)

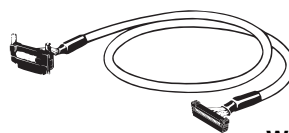


**Wiring Diagram**

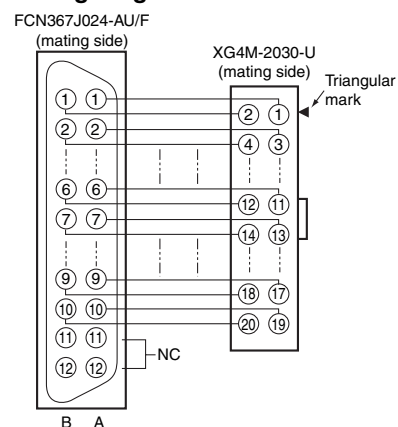


**XW2Z-□□□AU**

(For XW2D-20C6)

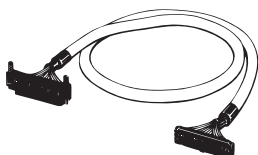


**Wiring Diagram**



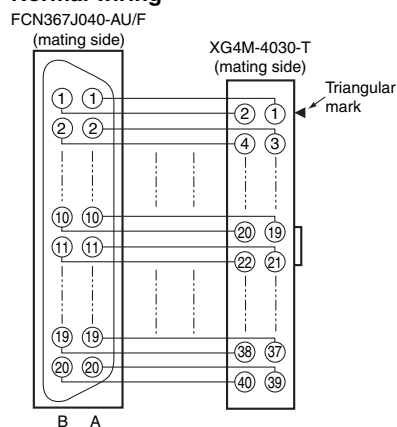
### For 32-point, Connector-type I/O Units (Group 2) for Programmable Controllers For 64-point, Connector-type I/O Units for Programmable Controllers

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

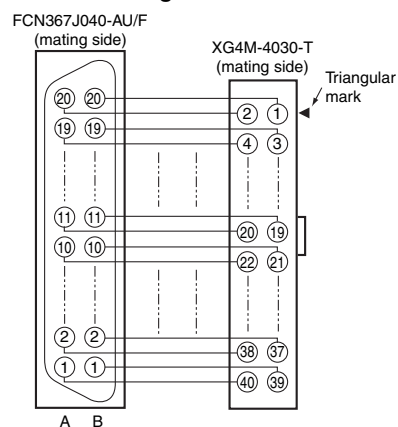


**Wiring Diagram**

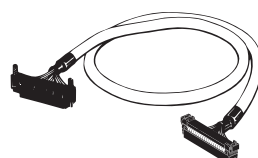
#### • Normal wiring



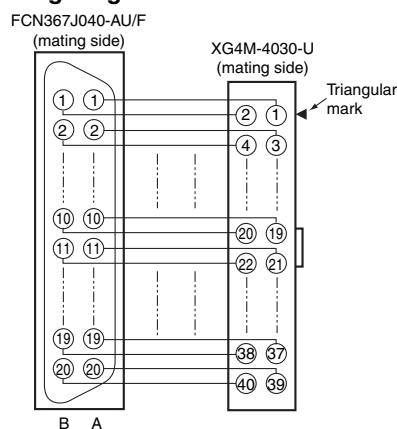
#### • Reverse wiring



**XW2Z-□□□BU (For XW2D-40C6)**

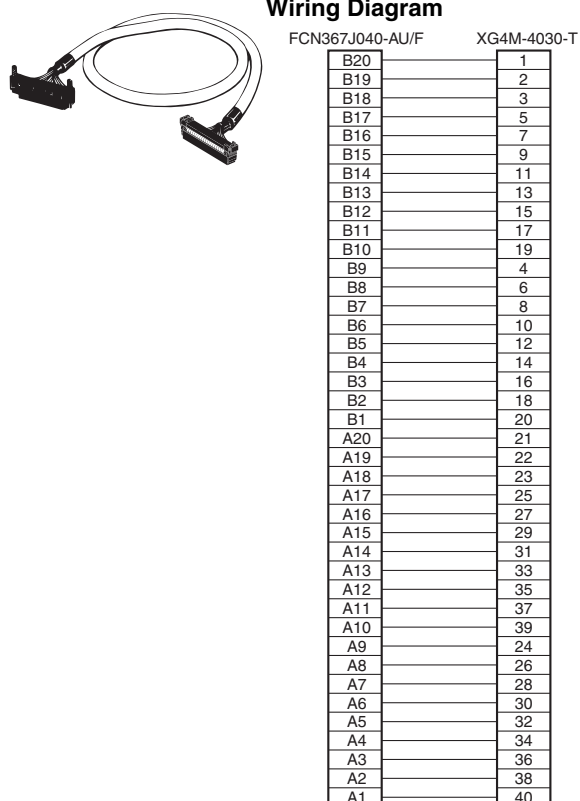


**Wiring Diagram**



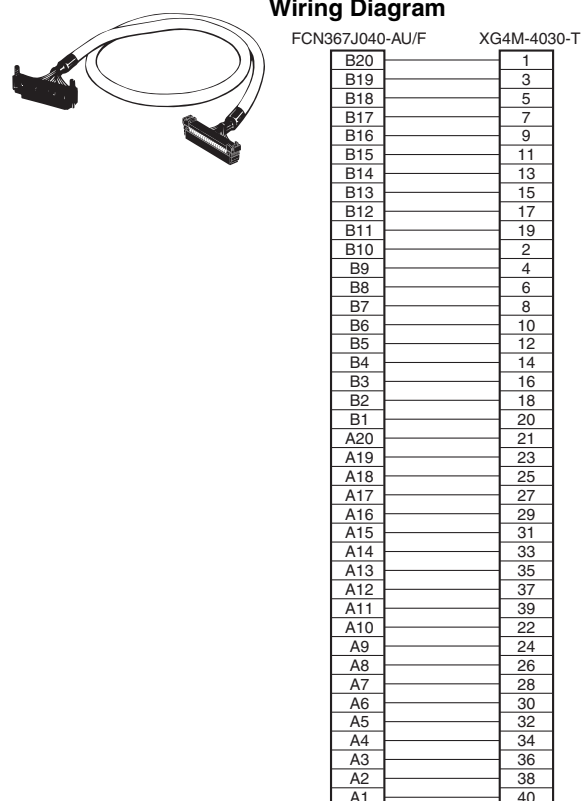
## XW2Z-□□□B-A (For XW2F-40G7-IN32)

## Wiring Diagram



## XW2Z-□□□B-B (For XW2F-40G7-OUT32)

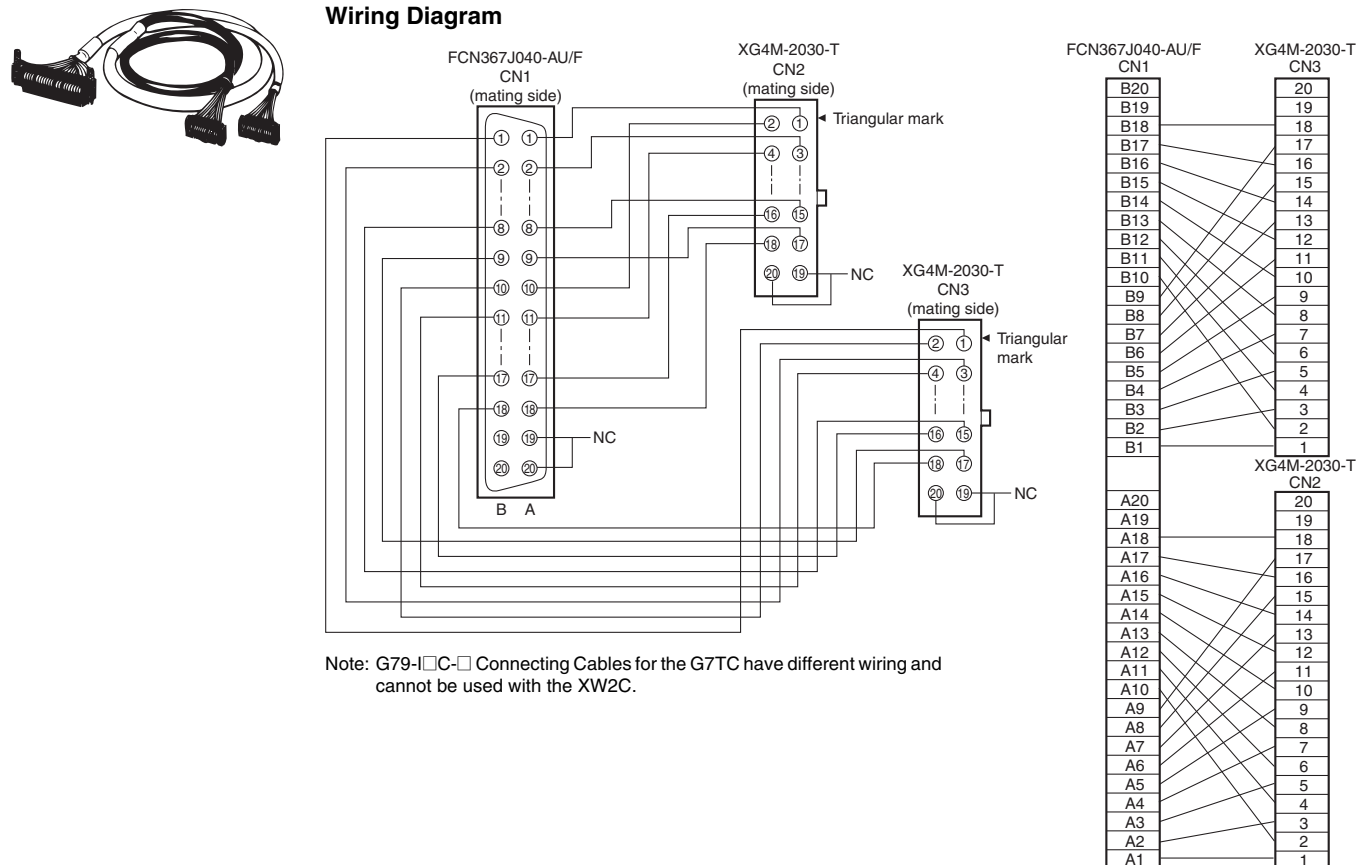
## Wiring Diagram



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

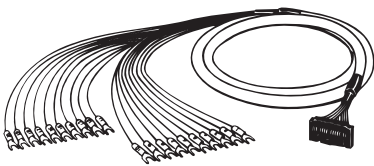
## XW2Z-□□□D

## Wiring Diagram

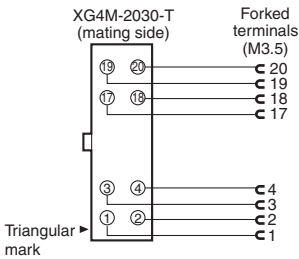


20-pole Cable with Discrete-wire Press-fit Terminals

XW2Z-□□□F



Wiring Diagram



Connector Pin No. Table

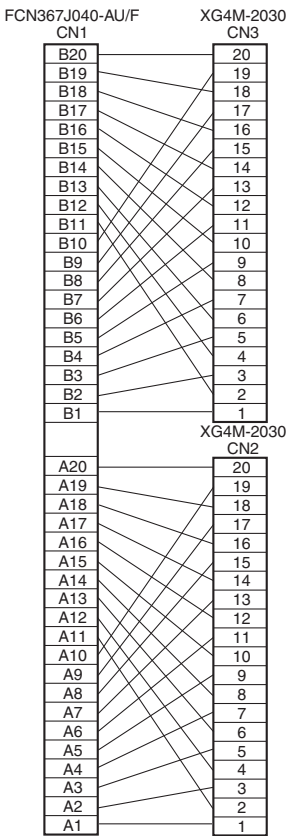
| Forked terminal | No. of cores | Insulation color | Dot marks | Dot color | Connector pin No. |
|-----------------|--------------|------------------|-----------|-----------|-------------------|
| 1               | 1            | Blue             | □         | Red       | 1◁                |
| 2               |              | 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





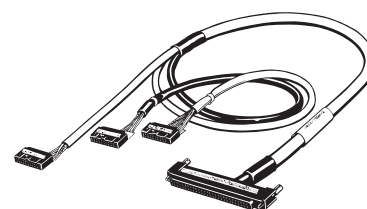
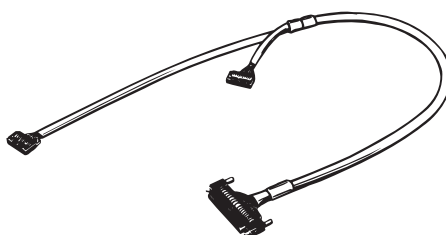
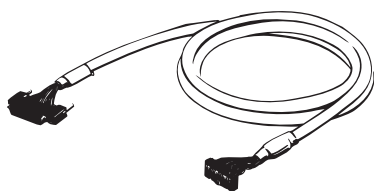
## For 96-point, Connector-type I/O Units for Programmable Controllers

### 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  |  |                        |
|             |  | ①③⑤⑦⑨⑪⑬⑮⑰⑱  |  |                        |
|             |  | ②④⑥⑧⑩⑫⑭⑯⑰⑱  |  |                        |
|             |  | 8 9 10 11 12 13 14 15 +V NC   |  |                        |
|             |  | Word N+1 (CN3)  |  |                        |
|             |  | 0 1 2 3 4 5 6 7 COM NC  |  |                        |
|             |  | ①③⑤⑦⑨⑪⑬⑮⑰⑱  |  |                        |
|             |  | ②④⑥⑧⑩⑫⑭⑯⑰⑱  |  |                        |
|             |  | 8 9 10 11 12 13 14 15 +V NC   |  |                        |
|             |  | Word N+2 (CN4)  |  |                        |
|             |  | 0 1 2 3 4 5 6 7 COM NC  |  |                        |
|             |  | ①③⑤⑦⑨⑪⑬⑮⑰⑱  |  |                        |
|             |  | ②④⑥⑧⑩⑫⑭⑯⑰⑱  |  |                        |
|             |  | 8 9 10 11 12 13 14 15 +V NC   |  |                        |
| XW2Z-□□□H-2 |  | XW2□-40G□   |  | XW2□-20G□              |
|             |  | 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 |
|             |  | ①③⑤⑦⑨⑪⑬⑮⑰⑱⑲⑲⑲ |  |                        |

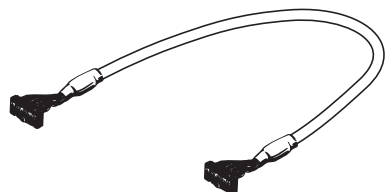
#### XW2Z-□□□H-□G/G79-□□□C-□□□-□□□ Connecting Cables

|                 |   |   |   |
|-----------------|---|---|---|
| G79-□□□C-□□□□□□ | XW2□-20G□   |   |   |
|                 | <div>Word N (CN2)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲</div> <div>②④⑥⑧⑩⑫⑭⑯⑱⑳</div> <div>NC COM 7 6 5 4 3 2 1 0</div>                                      | <div>Word N+1 (CN3)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲</div> <div>②④⑥⑧⑩⑫⑭⑯⑱⑳</div> <div>NC COM 7 6 5 4 3 2 1 0</div>                                      | <div>Word N+2 (CN4)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲</div> <div>②④⑥⑧⑩⑫⑭⑯⑱⑳</div> <div>NC COM 7 6 5 4 3 2 1 0</div>                                      |
| XW2Z-□□□H-2G    | XW2□-40G□   |   | XW2□-20G□   |
|                 | <div>Word N (CN2)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲⑳㉑㉓㉕㉗㉙㉛㉝㉟㊱㊳</div> <div>②④⑥⑧⑩⑫⑭⑯⑱㉒㉔㉖㉘㉚㉜㉞㉠㉡㉣</div> <div>NC COM 7 6 5 4 3 2 1 0</div>                  | <div>Word N+1 (CN2)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲㉑㉓㉕㉗㉙㉛㉝㉟㊱㊳</div> <div>②④⑥⑧⑩⑫⑭⑯⑱㉒㉔㉖㉘㉚㉜㉞㉠㉡㉣</div> <div>NC COM 7 6 5 4 3 2 1 0</div>                   | <div>Word N+2 (CN3)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲</div> <div>②④⑥⑧⑩⑫⑭⑯⑱㉒㉔㉖㉘㉚㉜㉞㉠㉡㉣</div> <div>NC COM 7 6 5 4 3 2 1 0</div>                             |
| XW2Z-□□□H-1G    | XW2B-60G□   |   |   |
|                 | <div>Word N (CN2)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲㉑㉓㉕㉗㉙㉛㉝㉟㊱㊳㊵㊷㊹㊻㊽㊿</div> <div>②④⑥⑧⑩⑫⑭⑯⑱㉒㉔㉖㉘㉚㉜㉞㉠㉡㉣㉤㉥㉦㉧㉨㉩㉪㉫㉬㉭㉮㉯</div> <div>NC COM 7 6 5 4 3 2 1 0</div> | <div>Word N+1 (CN2)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲㉑㉓㉕㉗㉙㉛㉝㉟㊱㊳㊵㊷㊹㊻㊽㊿</div> <div>②④⑥⑧⑩⑫⑭⑯⑱㉒㉔㉖㉘㉚㉜㉞㉠㉡㉣㉤㉥㉦㉧㉨㉩㉪㉫㉬㉭㉮㉯</div> <div>NC COM 7 6 5 4 3 2 1 0</div> | <div>Word N+2 (CN2)</div> <div>+V NC 15 14 13 12 11 10 9 8</div> <div>①③⑤⑦⑨⑪⑬⑮⑰⑲㉑㉓㉕㉗㉙㉛㉝㉟㊱㊳㊵㊷㊹㊻㊽㊿</div> <div>②④⑥⑧⑩⑫⑭⑯⑱㉒㉔㉖㉘㉚㉜㉞㉠㉡㉣㉤㉥㉦㉧㉨㉩㉪㉫㉬㉭㉮㉯</div> <div>NC COM 7 6 5 4 3 2 1 0</div> |

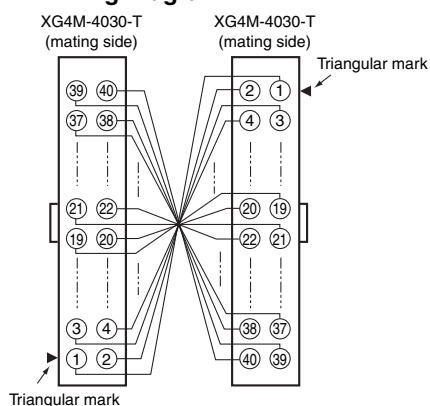
Note: The XW2Z-□□□H-□G I/O signal arrangement is oriented the same as the Connector Cable for the G79 I/O Relay Terminal.

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

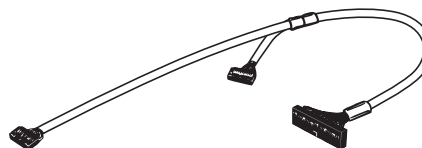
XW2Z-□□□K



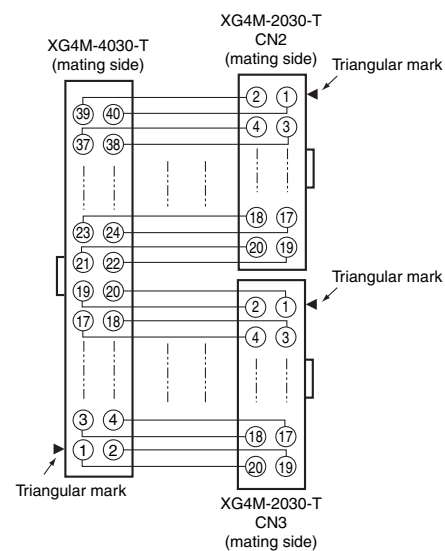
### Wiring Diagram



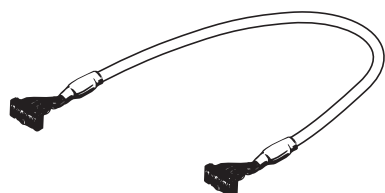
XW2Z-□□□N



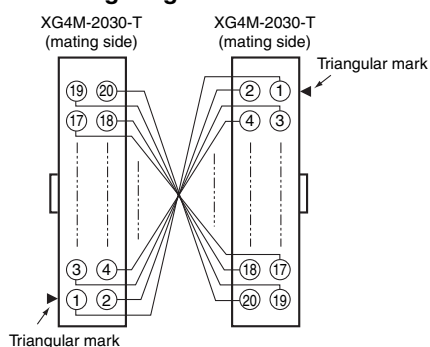
### Wiring Diagram



XW2Z-□□□X



### Wiring Diagram



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