

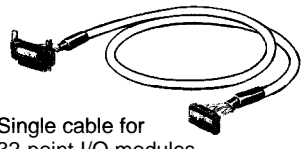
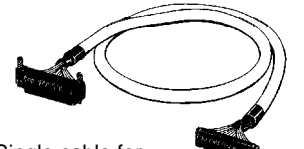
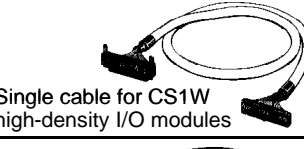
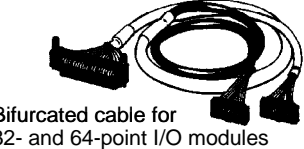
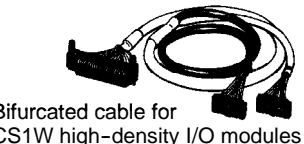
Pre-terminated Cables Simplify Connection of Terminal Blocks to PLC Modules

- Reduce setup time with cables pre-terminated for the exact PLC module in use
- No need to make custom connectors
- Crimp hook-terminated cables connect XW2B terminal blocks with PLC modules and input boards from any manufacturer

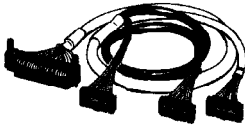
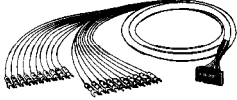


Ordering Information

■ CABLES

Appearance	Applicable terminal block	Cable length	Part number
 <p>Single cable for 32-point I/O modules</p>	XW2B-20G5 XW2B-20G4 XW2B-20G5-T XW2B-20G5-D XW2B-20G5-IN16	0.5 m (1.64 ft)	XW2Z-050A
		1 m (3.28 ft)	XW2Z-100A
		1.5 m (4.92 ft)	XW2Z-150A
		2 m (6.56 ft)	XW2Z-200A
		3 m (9.84 ft)	XW2Z-300A
		5 m (16.40 ft)	XW2Z-500A
 <p>Single cable for 32- and 64-point I/O modules</p>	XW2B-40G5 XW2B-40G4	0.5 m (1.64 ft)	XW2Z-050B
		1 m (3.28 ft)	XW2Z-100B
		1.5 m (4.92 ft)	XW2Z-150B
		2 m (6.56 ft)	XW2Z-200B
		3 m (9.84 ft)	XW2Z-300B
		5 m (16.40 ft)	XW2Z-500B
 <p>Single cable for CS1W high-density I/O modules</p>	XW2B-60G5 XW2B-60G4	1 m (3.28 ft)	XW2Z-100H-1
		2 m (6.56 ft)	XW2Z-200H-1
		3 m (9.84 ft)	XW2Z-300H-1
		5 m (16.40 ft)	XW2Z-500H-1
 <p>Bifurcated cable for 32- and 64-point I/O modules</p>	XW2C-20G5-IN16	1 m (3.28 ft) and 0.75 m (2.46 ft)	XW2Z-100D
		1.5 m (4.92 ft) and 1.25 m (4.10 ft)	XW2Z-150D
		2 m (6.56 ft) and 1.75 m (5.74 ft)	XW2Z-200D
		3 m (9.84 ft) and 2.75 m (9.02 ft)	XW2Z-300D
		5 m (16.40 ft) and 4.75 m (15.58 ft)	XW2Z-500D
 <p>Bifurcated cable for CS1W high-density I/O modules</p>	XW2B-40G5 and XW2B-20G5	1 m (3.28 ft) and 1 m (3.28 ft)	XW2Z-100H-2
		2 m (6.56 ft) and 2 m (6.56 ft)	XW2Z-200H-2
		3 m (9.84 ft) and 3 m (6.56 ft)	XW2Z-300H-2
		5 m (16.40 ft) and 5 m (16.40 ft)	XW2Z-500H-2

Cables (continued)

Appearance	Applicable terminal block	Cable length	Part number
 <p>Three-connector cable for 48- and 96-point I/O modules</p>	Three XW2B-20G5	1 m (3.28 ft) and 0.75 m (2.45 ft) and 1 m (3.28 ft)	XW2Z-100H-3
		2 m (6.56 ft) and 1.75 m (5.74 ft) and 2 m (6.56 ft)	XW2Z-200H-3
		3 m (9.84 ft) and 2.75 m (9.02 ft) and 3 m (9.84 ft)	XW2Z-300H-3
		5 m (16.40 ft) and 4.75 m (15.58 ft) and 5 m (16.40 ft)	XW2Z-500H-3
 <p>Single cable terminated with crimp hooks</p>	XW2B-20G5 XW2B-20G4	1 m (3.28 ft)	XW2Z-100F
		1.5 m (4.92 ft)	XW2Z-150F
		2 m (6.56 ft)	XW2Z-200F
		3 m (9.84 ft)	XW2Z-300F
		5 m (16.40 ft)	XW2Z-500F

Specifications

■ RATINGS/CHARACTERISTICS

Item	Rating
Rated current	1 A at 20°C (68°F)
Rated voltage	125 VAC
Contact resistance	20 mΩ max. with 100 mA at 20 mV max. (See Note 1)
Insulation resistance	100 MΩ min. at 500 VDC
Dielectric strength	500 VAC for 1 minute with a current leakage of 1 mA max. (See Note 2)
Enclosure rating	IP00
Electrical protection	Class 0
Ambient temperature	Operating: -25°C to 80°C (-13°F to 176°F)

Note: 1. The resistance indicated is the contact resistance of the connector.

2. The voltage indicated is the dielectric strength of the connector.

■ MATERIALS/FINISH

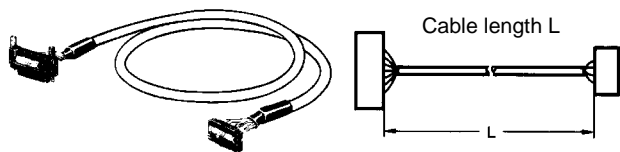
Item	Parts	Materials/Processing		
Connector	XG4M-2030 XG4M-4030 XG4M-6030	Housing	Black PBT resin with glass (UL94V-0)	
		Cover		
		Contact		Contact-carrying portion: Phosphor bronze and nickel plated with 0.15-μm-thick gold Press-fit portion: Phosphor bronze and nickel plated with 2.0-μm-thick tin
	XG4T-2004 XG4T-4004 XG4T-6004	Strain relief	Black PBT resin with glass (UL94V-0)	
		FCN-367J024-AU/F FCN-367J040-AU/F	Housing	Black PBT resin (UL94V-0)
			Contact	Contact-carrying portion: Gold-plated phosphor bronze Press-fit portion: Tin-plated phosphor bronze
		Screw	Nickel-plated steel	
Cable	UL2464 interface cable	Equivalent to AWG28		
Crimp terminal	Fork-type crimp terminal	Equivalent to 1.25YAS3.5		

Dimensions

Unit: mm (inch)

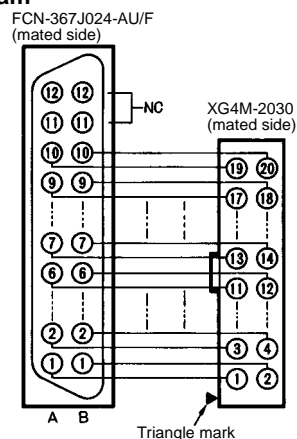
■ XW2Z-□□□A FOR 32-POINT PLC I/O MODULES (CONNECTOR TYPE)

The G79-□C Cable with a connector for the G7TC cannot be used for the XW2C due to a difference in wiring. The G79-□C Cable can be used for some of the XW2B Screw Terminal Blocks, refer to the XW2B data sheet.



Part number	Cable length L
XW2Z-050A	0.5 m (1.64 ft)
XW2Z-100A	1 m (3.28 ft)
XW2Z-150A	1.5 m (4.92 ft)
XW2Z-200A	2 m (6.56 ft)
XW2Z-300A	3 m (9.84 ft)
XW2Z-500A	5 m (16.40 ft)

Wiring Diagram



Combinations of Omron PLC I/O Modules and Screw Terminal Blocks

PLC I/O module	I/O points	Terminal block	Dedicated cable
C200H-ID215	32 points input	XW2B-20G5	XW2Z-□□□A
C200H-OD215	32 points output	XW2B-20G4	
C200H-MD215	16 points in/16 points out	XW2B-40G5-T	
C200H-MD115	16 points in/16 points out	XW2B-20G5-D	
C200H-MD501	16 points in/16 points out		
C200H-ID501	32 points input		
C200H-OD501	32 points output		
C500-ID218CN	32 points input		
C500-ID501CN	32 points input		
C500-OD415CN	32 points output		
C500-MD211CN	16 points in/16 points out		
C500-OD501CN	32 points output		
C200H-ID215	32 points input	XW2C-20G5-IN16 (See Note 3)	
C200H-ID501	32 points input		
C500-ID218CN	32 points input		
C500-ID501CN	32 points input		
C200H-MD215	16 points in/16 points out		
C200H-MD115	16 points in/16 points out		
C200H-MD501	16 points in/16 points out		
C500-MD211CN	16 points in/16 points out		

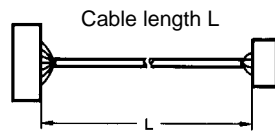
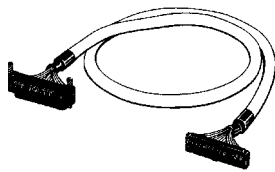
Note: 1. The G79-□ Cable with a connector for the G7TC cannot be used for the XW2C due to a difference in wiring. The G79-□C Cable can be used for some of the XW2B Screw Terminal Blocks, refer to the XW2B data sheet.

2. The Input or Output Modules above have two connectors, so each one can use up to two Terminal Blocks and two dedicated cables.

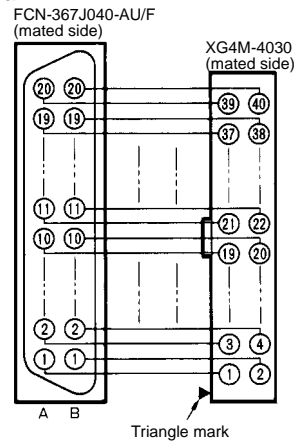
3. The XW2C is a dedicated Input Terminal Block. If the XW2C is connected to a PLC module that handles both input and output signals (modules with "MD" in the part number), only the input portion of the PLC module can be used.

Unit: mm (inch)

■ XW2Z-□□□B FOR 32-POINT AND 64-POINT PLC I/O MODULES (CONNECTOR TYPE)



Wiring Diagram



Part number	Cable length L
XW2Z-050B	0.5 m (1.64 ft)
XW2Z-100B	1 m (3.28 ft)
XW2Z-150B	1.5 m (4.92 ft)
XW2Z-200B	2 m (6.56 ft)
XW2Z-300B	3 m (9.84 ft)
XW2Z-500B	5 m (16.40 ft)

Combinations of Omron PLC I/O Modules and Screw Terminal Blocks

PLC I/O module	I/O points	Terminal block	Dedicated cable
CQM1-ID213 CQM1-OD213 C200H-ID216 C200H-OD218 C200H-OD21B	32 points	XW2B-40G5 XW2B-40G4	XW2Z-□□□B
C200H-ID111 C200H-ID217 C200H-OD219 C500-ID114 3G2A5-ID219 3G2A5-OD213	64 points		

Note: 32-point I/O modules use one Terminal Block and one dedicated cable.
64-point I/O modules use two Terminal Blocks and two dedicated cables.

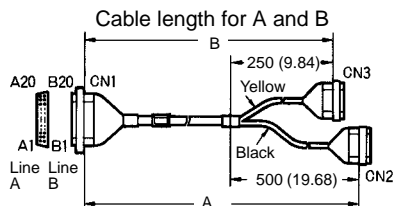
■ XW2Z-□□□D FOR 32-POINT AND 64-POINT PLC I/O MODULES (CONNECTOR TYPE)



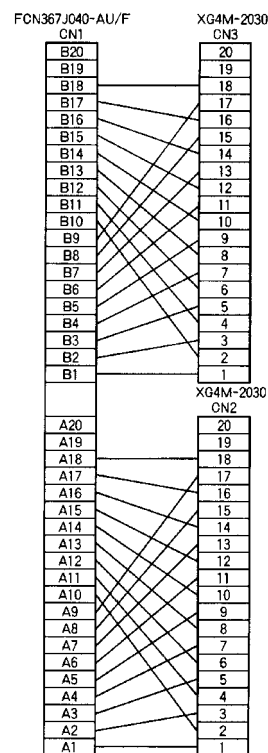
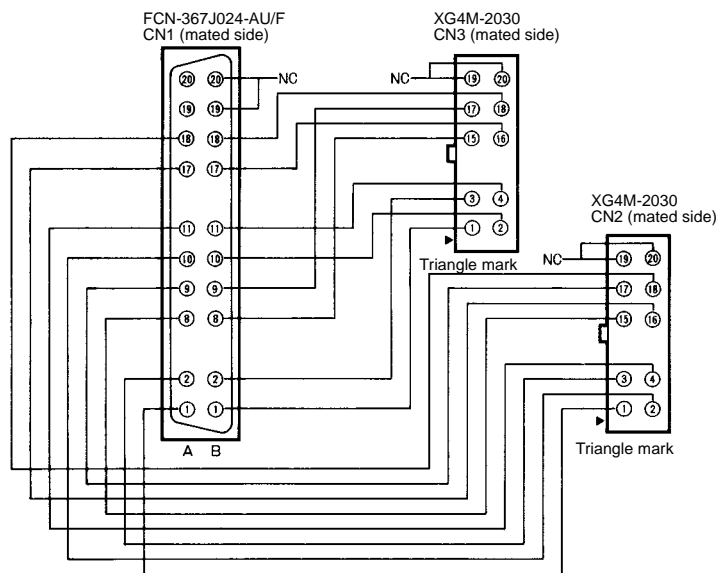
XW2Z-□□□D

Part number	Cable length A	Cable length B
XW2Z-100D	1 m (3.28 ft)	0.75 m (2.46 ft)
XW2Z-150D	1.5 m (4.92 ft)	1.25 m (4.10 ft)
XW2Z-200D	2 m (6.56 ft)	1.75 m (5.74 ft)
XW2Z-300D	3 m (9.84 ft)	2.75 m (9.02 ft)
XW2Z-500D	5 m (16.40 ft)	4.75 m (15.58 ft)

- Note: 1. CN2 (black cable side) is wired to line A of CN1 and CN3 (yellow cable side) is wired to line B of CN1.
 2. The G79-□C Cable for the G7TC Terminal Block cannot be used for the XW2C due to a difference in wiring.



Wiring Diagram

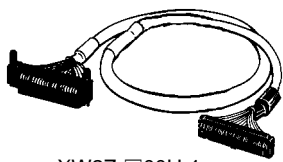


Combinations of Omron PLC I/O Modules and Screw Terminal Blocks

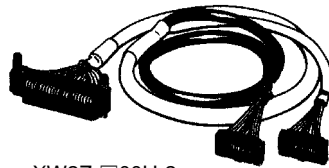
PLC I/O module	I/O points	Terminal block	Dedicated cable
CQM1-ID213 C200H-ID216	32 points	Two XW2C-20GS-IN16 input blocks	One XW2Z-□□□D cable
C200H-ID217 C500-ID114 3G2A5-ID219	64 points	Four XW2C-20GS-IN16 input blocks	Two XW2Z-□□□D cables

Unit: mm (inch)

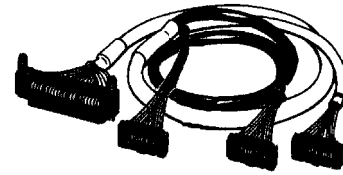
■ XW2Z-□□□H-□ FOR 96-POINT CS1 PLC I/O MODULES (CONNECTOR TYPE)



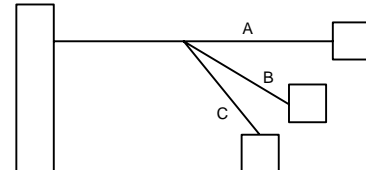
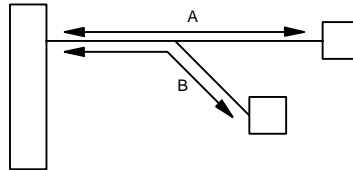
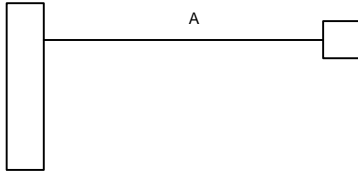
XW2Z-□□□H-1



XW2Z-□□□H-2



XW2Z-□□□H-3



Part number	Cable length A
XW2Z-100H-1	1 m (3.28 ft)
XW2Z-200H-1	2 m (6.56 ft)
XW2Z-300H-1	3 m (9.84 ft)
XW2Z-500H-1	5 m (16.40 ft)

Part number	Cable length		
	A	B	C
XW2Z-100H-3	1 m (3.28 ft)	0.75 ft (2.45 ft)	1 m (3.28 ft)
XW2Z-200H-3	2 m (6.56 ft)	1.75 ft (5.74 ft)	2 m (6.56 ft)
XW2Z-300H-3	3 m (9.84 ft)	2.75 ft (9.02 ft)	3 m (9.84 ft)
XW2Z-500H-3	5 m (16.40 ft)	4.75 ft (15.58 ft)	5 m (16.40 ft)

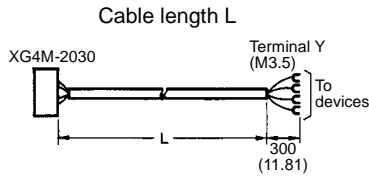
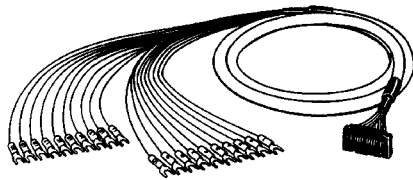
Part number	Cable length A	Cable length B
XW2Z-100H-2	1 m (3.28 ft)	1 m (3.28 ft)
XW2Z-200H-2	2 m (6.56 ft)	2 m (6.56 ft)
XW2Z-300H-2	3 m (9.84 ft)	3 m (9.84 ft)
XW2Z-500H-2	5 m (16.40 ft)	5 m (16.40 ft)

Combinations of Omron PLC I/O Modules and Screw Terminal Blocks

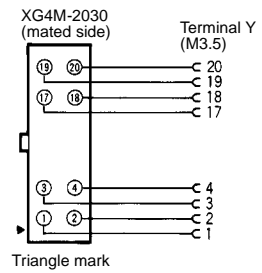
PLC I/O module	I/O points	Terminal blocks	Dedicated cable
CS1W-ID291, CS1W-OD291, CS1W-OD292 CS1W-MD291, CS1W-MD292	96 points	Two XW2B-60G□ terminal blocks	Two XW2Z-□□□H-1 cables
CS1W-ID291, CS1W-OD291, CS1W-OD292 CS1W-MD291, CS1W-MD292	96 points	Two XW2B-40G4 + XW2B-20G4 or two XW2B-40G5 + XW2B-20G5 terminal blocks	Two XW2Z-□□□H-2 cables
CS1W-ID291, CS1W-OD291, CS1W-OD292 CS1W-MD291, CS1W-MD292	96 points	Six XW2B-20G4 or six XW2B-20G5 terminal blocks	Two XW2Z-□□□H-3 cables

Note: For detailed information about connector pin-outs, refer to CS1 Operation Manual (W339), Appendix A.

■ XW2Z-□□□F CABLE WITH CRIMP TERMINALS (20 POLES)



Wiring Diagram



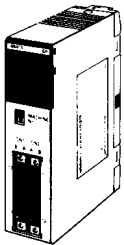
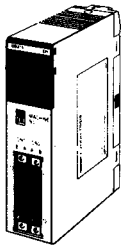
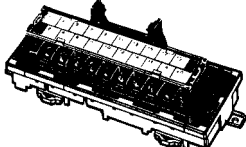
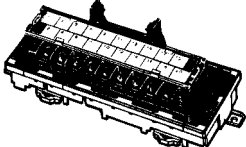


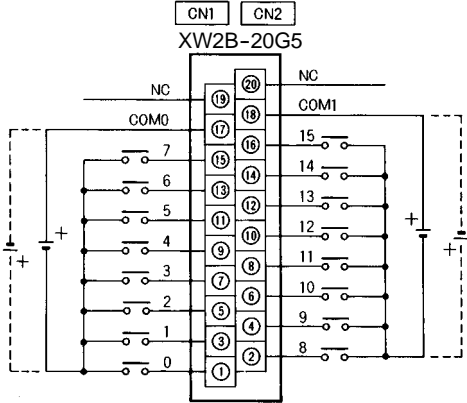
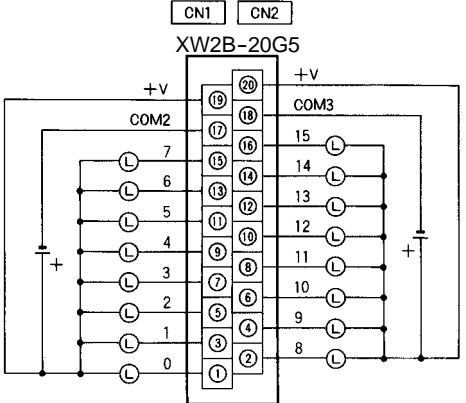


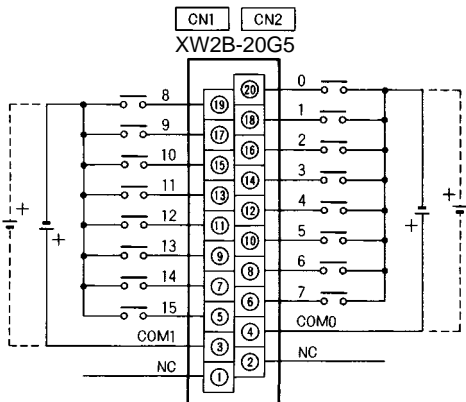
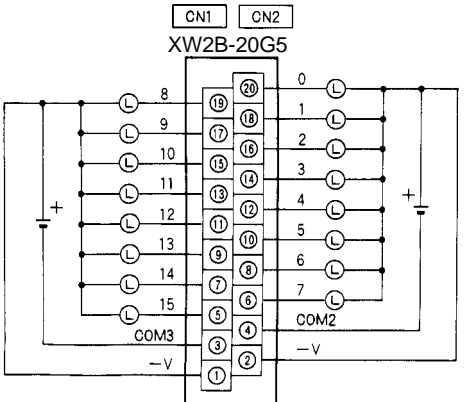
Part number	Cable length L
XW2Z-100F	1 m (3.28 ft)
XW2Z-150F	1.5 m (4.92 ft)
XW2Z-200F	2 m (6.56 ft)
XW2Z-300F	3 m (9.84 ft)
XW2Z-500F	5 m (16.40 ft)


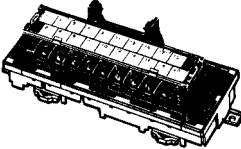


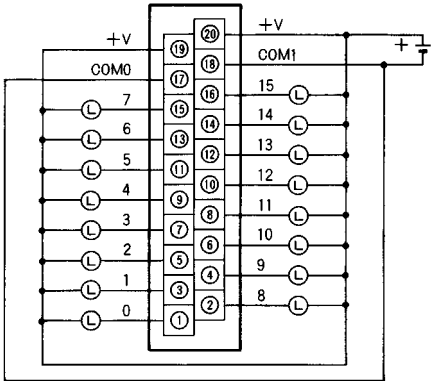
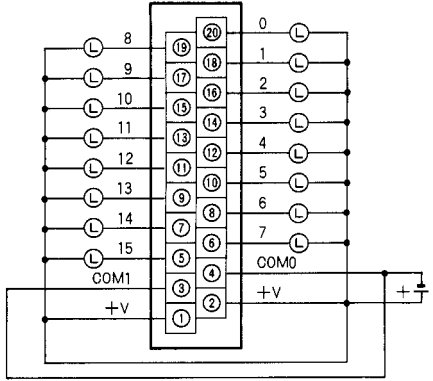
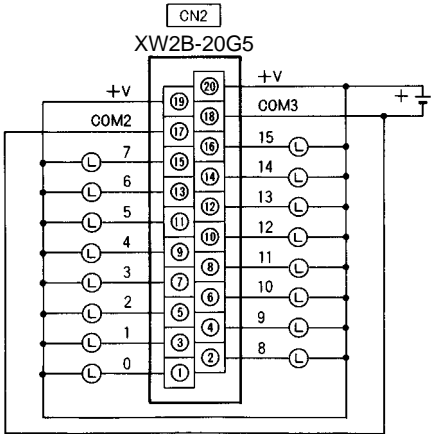
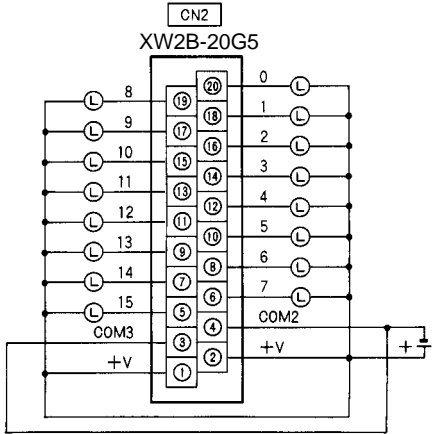
Combinations of Omron PLC I/O Modules and Screw Terminal Blocks

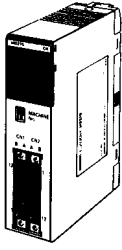
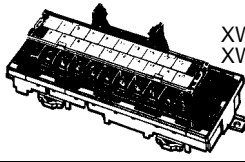
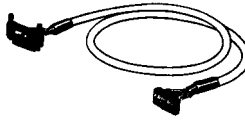
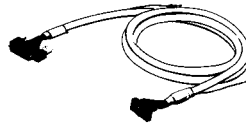
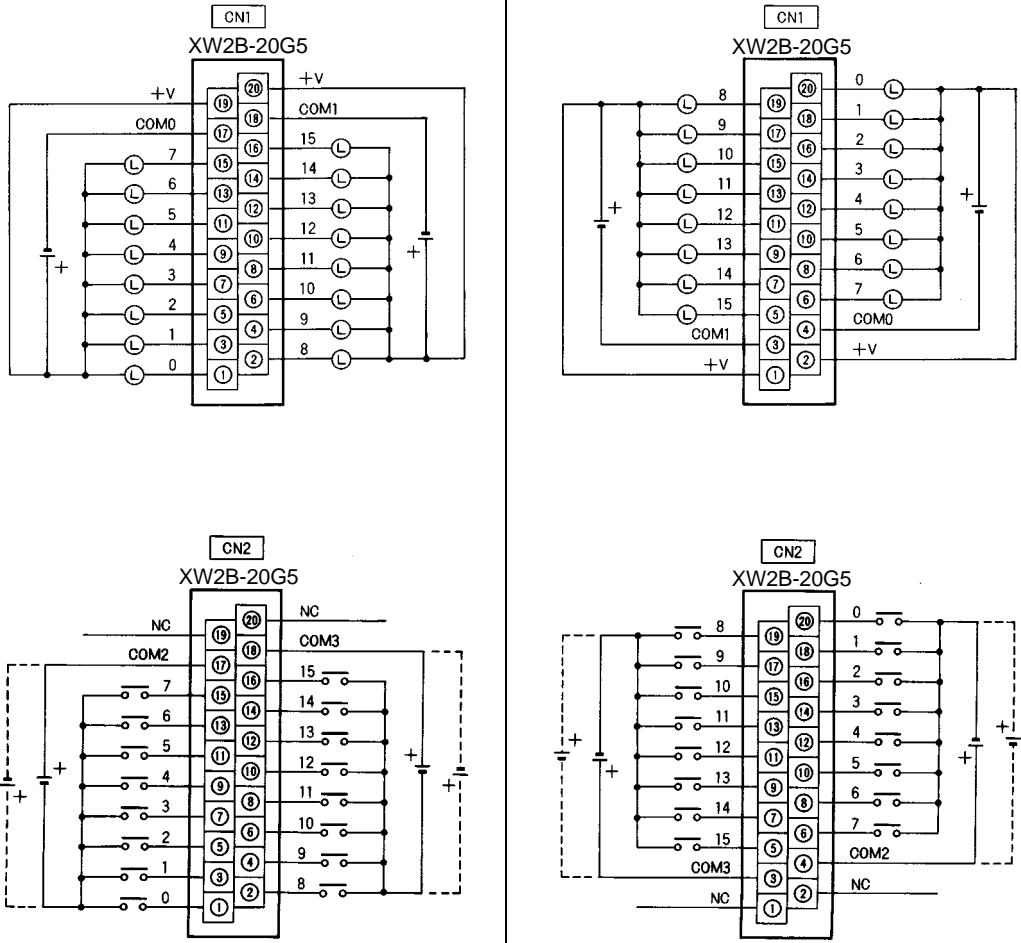
PLC I/O module	Terminal block	Dedicated cable
Use any I/O module with a terminal block from Omron or another manufacturer, or an I/O board for a computer.	XW2B-20G5 XW2B-20G4	XW2Z-□□□F

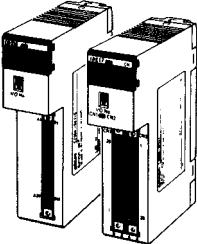
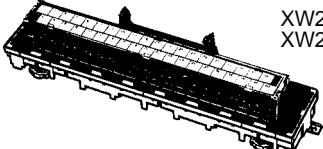

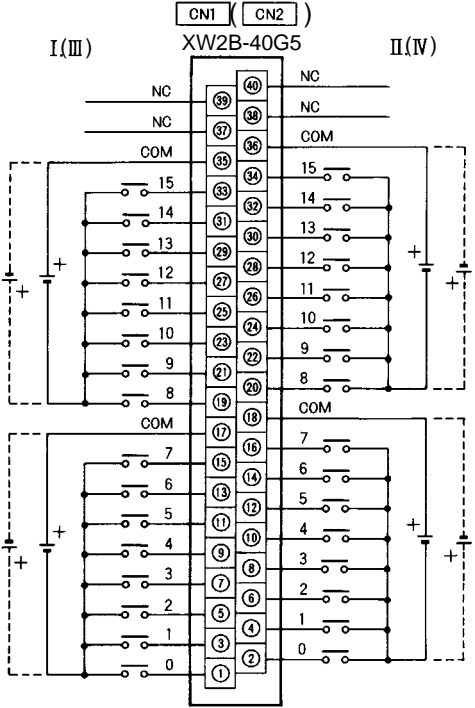
Installation

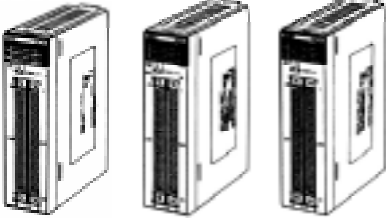
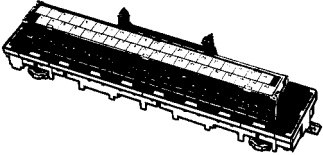
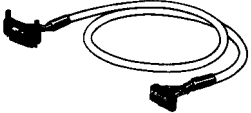
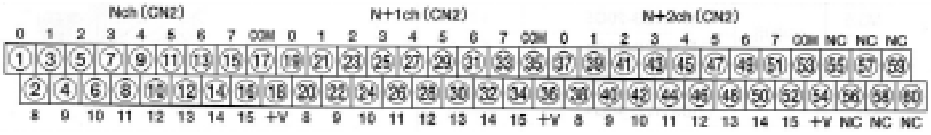
■ CONNECTIONS BETWEEN OMRON'S I/O MODULES AND SCREW TERMINAL BLOCKS

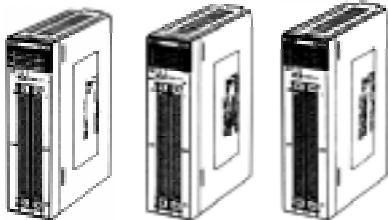
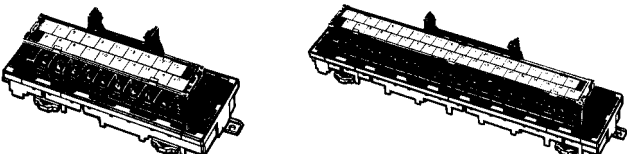
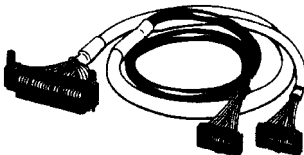
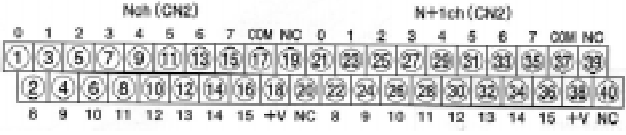
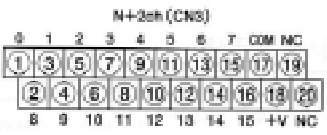
Item	Input (ID)	Output (OD)
PLC I/O modules	 <p>C200H-ID215 C200H-ID501 C500-ID501CN C500-ID218CN</p> <p>32-point input modules use two blocks and two cables.</p>	 <p>C200H-OD215 C200H-OD501 C500-OD501CN</p> <p>32-point output modules use two blocks and two cables.</p>
Terminal blocks	 <p>XW2B-20G5 XW2B-20G4</p>	 <p>XW2B-20G5 XW2B-20G4</p>
Cable	 <p>XW2Z-□□□A</p>	 <p>XW2Z-□□□A</p>
Connection diagram	 <p>Diagram showing 16 channels (0-15) connected to COM0 and NC terminals. Terminals 1-16 are numbered 1-16. Terminals 17-20 are labeled COM0, 19, 18, 17, 16.</p>	 <p>Diagram showing 16 channels (0-15) connected to COM2 and +V terminals. Terminals 1-16 are numbered 1-16. Terminals 17-20 are labeled +V, 19, 18, 17, 16.</p>
Cable	 <p>G79-□C</p>	 <p>G79-□C</p>
Connection diagram	 <p>Diagram showing 16 channels (0-15) connected to COM1 and NC terminals. Terminals 1-16 are numbered 1-16. Terminals 17-20 are labeled COM1, 19, 18, 17, 16.</p>	 <p>Diagram showing 16 channels (0-15) connected to COM3 and -V terminals. Terminals 1-16 are numbered 1-16. Terminals 17-20 are labeled -V, 19, 18, 17, 16.</p>

Item	Output (OD)	
PLC I/O module	<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>C500-OD415CN</p> <p>32-point output module uses two blocks and two cables.</p> </div> </div>	
Terminal block	<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>XW2B-20G5 XW2B-20G4</p> </div> </div>	
Cable	<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>XW2Z-□□□A</p> </div> </div>	<div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>G79-□C</p> </div> </div>
Connection diagram	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;"> <p style="text-align: center;">CN1 XW2B-20G5</p>  </div> <div style="width: 45%;"> <p style="text-align: center;">CN1 XW2B-20G5</p>  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="width: 45%;"> <p style="text-align: center;">CN2 XW2B-20G5</p>  </div> <div style="width: 45%;"> <p style="text-align: center;">CN2 XW2B-20G5</p>  </div> </div>	

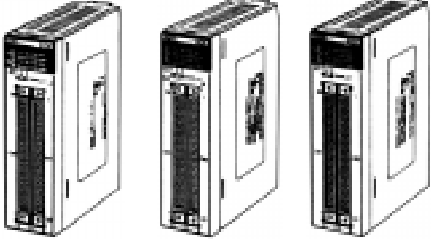
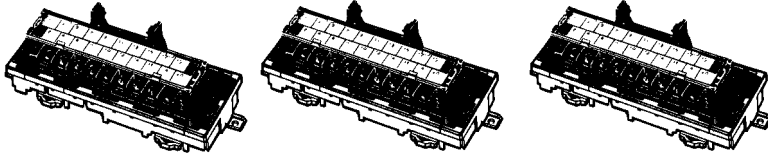
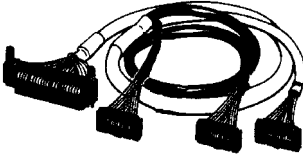
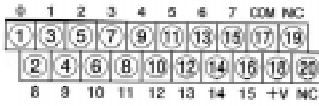
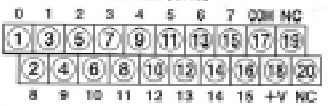
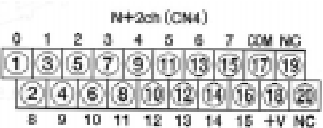
Item	Mixed I/O (MD)	
PLC I/O modules	 <p>C200H-MD115 C200H-MD215 C200H-MD501 C500-MD211CN</p> <p>16-point input/16-point output mixed I/O modules use two blocks and two cables.</p>	
Terminal blocks	 <p>XW2B-20G5 XW2B-20G4</p>	
Cable	 <p>XW2Z-□□□A</p>	 <p>G79-□C</p>
Connection diagram	 <p>The connection diagrams show the wiring for the XW2B-20G5 terminal blocks. Each diagram includes a 20-pin connector (CN1 or CN2) and a 16-point terminal block. The diagrams illustrate the connection of power (+V), common (COM), and load (L) lines for both input and output channels.</p>	

Item	Group 2 High-density Input/Output
PLC I/O module	 <p> CQM1-ID213 32-point Use one terminal block and one cable. C200H-ID216 32-point Use one terminal block and one cable. C200H-ID111 64-point Use two terminal blocks and two cables. C200H-ID217 64-point Use two terminal blocks and two cables. C500-ID114 64-point Use two terminal blocks and two cables. 3G2A5-ID219 64-point Use two terminal blocks and two cables. CQM1-OD213 32-point Use one terminal block and one cable. C200H-OD218 32-point Use one terminal block and one cable. C200H-OD219 64-point Use two terminal blocks and two cables. </p>
Terminal block	 <p>XW2B-40G5 XW2B-40G4</p>
Cable	 <p>XW2Z-□□□B</p>
Connection diagram	 <p> I(III) XW2B-40G5 II(IV) </p> <p> CN1 (CN2) </p> <p> The diagram shows the wiring for two modules, I(III) and II(IV), connected to the XW2B-40G5 terminal block. Module I(III) uses terminals 1-15, 17-27, and 29-39. Module II(IV) uses terminals 1-15, 17-27, and 29-39. Common (COM) terminals are 16, 28, and 40. NC (Normally Closed) terminals are 30, 31, 32, 33, 34, 35, 36, 37, 38, and 39. Power supply connections are shown with positive (+) and negative (-) terminals. </p>

Item	High-density I/O 1:1 Connection
PLC I/O module	 <p>CS1W-ID29□ CS1W-OD29□ CS1W-MD29□</p> <p>Use two terminal blocks and two cables.</p>
Terminal block	 <p>One XW2B-60G5 or one XW2B-60G4 per cable</p>
Cable	 <p>XW2Z-□□□H-1</p>
Connection	<p>XW2B-60G□</p> 

Item	High-density I/O 1:2 Connection
PLC I/O module	 <p>CS1W-ID29□ CS1W-OD29□ CS1W-MD29□</p> <p>Use two 40-point and two 20-point terminal blocks and two cables.</p>
Terminal block	 <p>XW2B-40G5 + XW2B-20G5 blocks or XW2B-40G4 + XW2B-20G4 blocks per cable</p>
Cable	 <p>XW2Z-□□□H-2</p>
Connection	<p>XW2B-40G□</p>  <p>XW2B-20G□</p> 

Note: For detailed information about connector pin-outs, refer to CS1 Operation Manual (W339), Appendix A.

Item	High-density I/O 1:3 Connection		
PLC I/O module	 <p data-bbox="982 256 1128 325">CS1W-ID29□ CS1W-OD29□ CS1W-MD29□</p> <p data-bbox="982 340 1312 388">Use six 20-point terminal blocks of the same kind and two cables.</p>		
Terminal block	 <p data-bbox="1153 462 1429 525">Three XW2B-20G5 blocks or three XW2B-20G4 blocks per cable</p>		
Cable	 <p data-bbox="998 682 1161 714">XW2Z-□□□H-3</p>		
Connection	<p data-bbox="373 798 503 829">XW2B-20G□</p> <p data-bbox="503 835 576 856">Nch (CN2)</p> 	<p data-bbox="730 798 860 829">XW2B-20G□</p> <p data-bbox="836 835 933 856">N+1ch (CN3)</p> 	<p data-bbox="1071 798 1201 829">XW2B-20G□</p> <p data-bbox="1177 835 1274 856">N+2ch (CN4)</p> 

Note: For detailed information about connector pin-outs, refer to CS1 Operation Manual (W339), Appendix A.

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.

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