

OMRON Corporation PLC

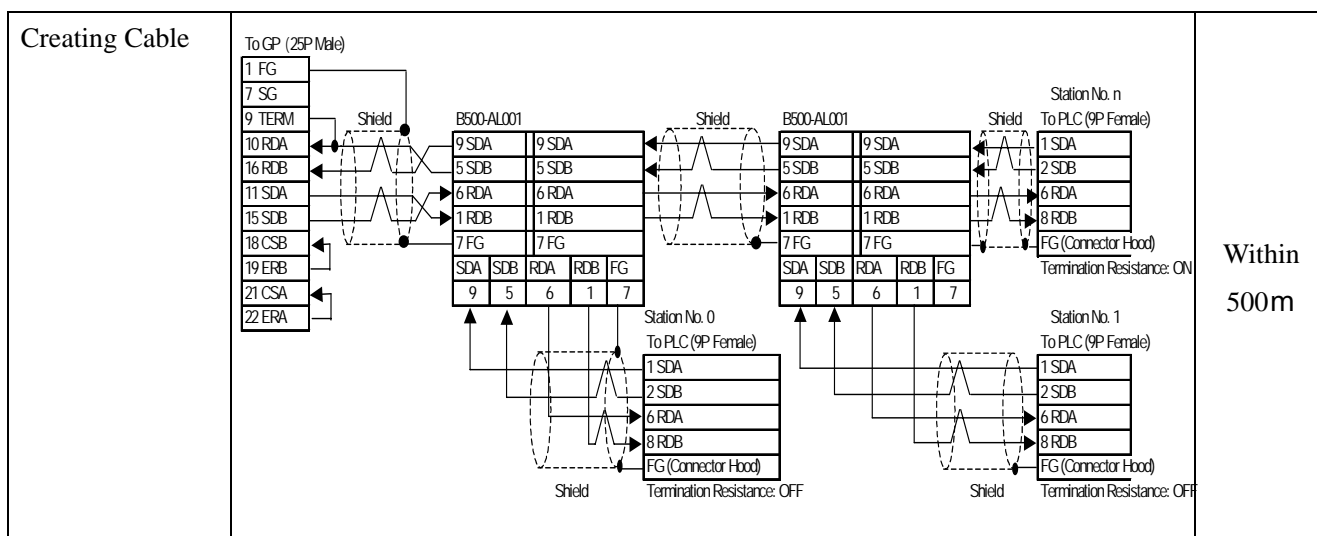
SYSMAC C Series (1 to n) Connection

Connection Method

1. 1 to n Connection / RS-422 Connection

[Link Adapter B500-AL001 by OMRON]

Type	Connection Method	Distance
Using GP230-IS11-O	<p>Diagram illustrating the RS-422 connection method for GP230-IS11-O using B500-AL001 link adapters. The connection is made via shielded cables. The diagram shows the pin connections for the master station (GP230-IS11-O) and the slave stations (Station No. 0 to Station No. n). The master station has pins 1-7 labeled RDA, SDB, 6RDA, 1RDB, 7FG, and 9SDA. The slave stations have pins 1-7 labeled 1SDA, 2SDB, 6RDA, 8RDB, FG (Corrector H-tan), and Termination Resistance OFF. The connection is made via shielded cables. The diagram also shows the connection for Station No. 0 and Station No. 1.</p>	Within 500m
Using GP070-CN10-O	<p>Diagram illustrating the RS-422 connection method for GP070-CN10-O using B500-AL001 link adapters. The connection is made via shielded cables. The diagram shows the pin connections for the master station (GP070-CN10-O) and the slave stations (Station No. 0 to Station No. n). The master station has pins 1-7 labeled RDA, SDB, 6RDA, 1RDB, 7FG, and 9SDA. The slave stations have pins 1-7 labeled 1SDA, 2SDB, 6RDA, 8RDB, FG (Corrector H-tan), and Termination Resistance OFF. The connection is made via shielded cables. The diagram also shows the connection for Station No. 0 and Station No. 1.</p>	Within 500m



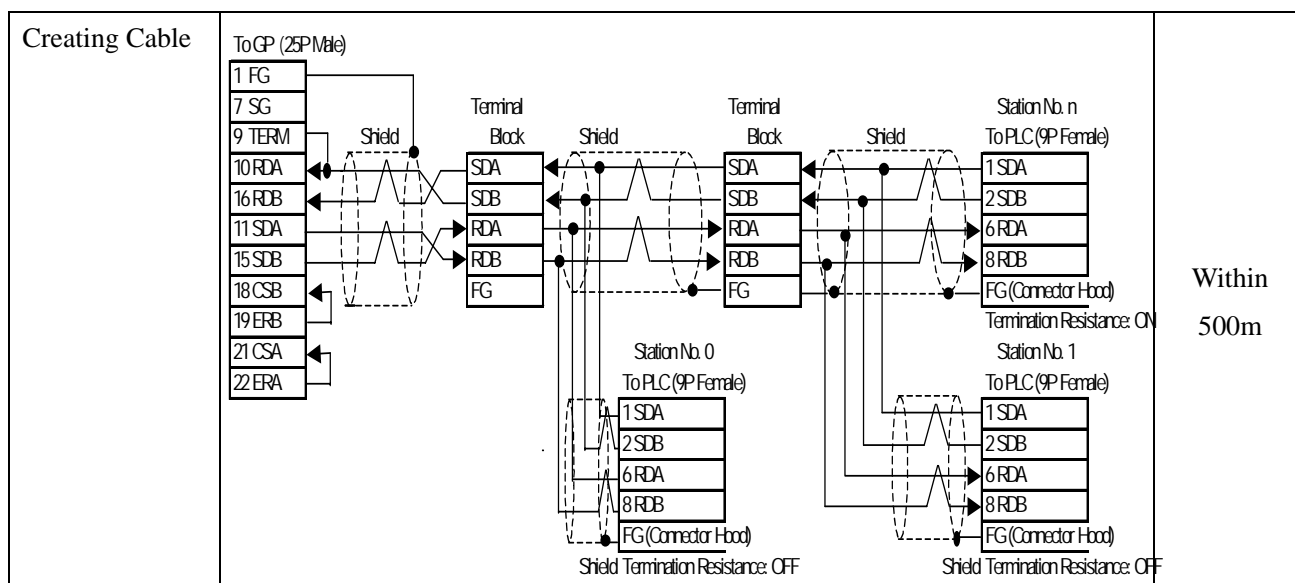
- ◆ Within the GP70 Series, this applies only to the GP377 Series.
- ◆ Use the RS422A/485 port, which is Port 2 of CQM1H-SCB41.
- ◆ When “n” CQM1H-CPU51/ CQM1H-CPU61 units are connected to one GP unit for communication, the maximum number for “n” is 8.
- ◆ The RS422 communication port on the PLC is a D-sub. For 1 to n connections, use a link adaptor or terminal block by OMRON.
- ◆ Ground one end of the communication cable to either the RS-422A/485 connector hood on the serial communication board, or to the GP.
- ◆ The PLC has no SG connector, but its internal signal line is electrically insulated. Therefore, the SG connector on the GP/GLC requires no connection.
- ◆ Set the termination resistance switch, [TERM] on the terminating SYSMAC-CQMIH, to the “ON” position. If two units of PLCs are connected to the GP/GLS, the one having the longer distance for communication becomes the terminating station.
- ◆ Set the 2-wire/4-wire switch, [WIRE] on the PLC to the “4” position.
- ◆ The maximum cable length for RS-422/RS-485 communication is 500 meters. The total branch line length for T-Branching is 10 meters.
- ◆ To connect the PLC, use a link adaptor B500-AL001 by OMRON or a terminal block.

Recommended Products

Connector/Cover for GP	D-sub 25 pin Plug	XM2A-2501	<OMRON Co.>
	Cover for D-sub 25 pin	XM2S-2511	<OMRON Co.>
	Jack Screw	XM2Z-0071	<OMRON Co.>
Cable	H-9293A (CO-HC-ESV-3P*7/0.2) <Hirakawa Hewtech Corp.>		
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45		

2. 1 to n Connection / RS-422 COnnection (4-Wire)

Type	Connection Method	Distance
Using GP230-IS11-O		Within 500m
Using GP070-CN10-O		Within 500m



- Within the GP70 Series, this applies only to the GP377 Series.
- Use the RS422A/485 port, which is Port 2 of CQM1H-SCB41.
- When “n” CQM1H-CPU51/ CQM1H-CPU61 units are connected to one GP unit for communication, the maximum number for “n” is 8.
- The RS422 communication port on the PLC is a D-sub. For 1 to n connections, use a kink adaptor or terminal block by OMRON.
- Ground one end of the communication cable to either the RS-422A/485 connector hood on the serial communication board, or to the GP.
- The PLC has no SG connector, but its internal signal line is electrically insulated. Therefore, the SG connector on the GP/GLC requires no connection.
- Set the termination resistance switch, [TERM] on the terminating SYSMAC-CQMIH, to the “ON” position. If two units of PLCs are connected to the GP/GLS, the one having the longer distance for communication becomes the terminating station.
- Set the 2-wire/4-wire switch, [WIRE] on the PLC to the “4” position.
- The maximum cable length for RS-422/RS-485 communication is 500 meters. The total branch line length for T-Branching is 10 meters.
- To connect the PLC, use a link adaptor B500-AL001 by OMRON or a terminal block.

Recommended Products

Connector/Cover for GP	D-sub 25 pin Plug	XM2A-2501	<OMRON Co.>
	Cover for D-sub 25 pin	XM2S-2511	<OMRON Co.>
	Jack Screw	XM2Z-0071	<OMRON Co.>
Cable	H-9293A (CO-HC-ESV-3P*7/0.2) <Hirakawa Hewtech Corp.>		
Setscrew	Metric Coarse Screw Tread : M2.6 × 0.45		