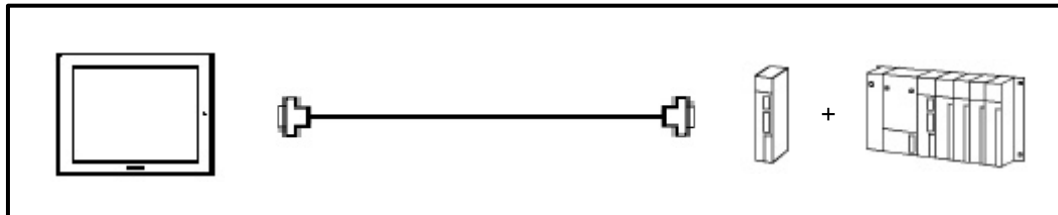


Mitsubishi < 4 > Mitsubishi Electric PLC

「 A Series (AnN)+ LINK unit (Large-sized) 」 Connection method

System Structure



Object Model

Model 	Series	Notes
GP	GP70 Series GP77 / 77R Series GP2000 Series	Except of handy-type
GLC	GLC2000 Series	

Object PLC

CPU 	Calculator link unit 	Connection Method	Connection cable 	GP 
A1N、 A2N、 A3N	AJ71C24 AJ71C24-S3 AJ71C24-S6 AJ71C24-S8 AJ71UC24 1	RS-232C	Connection Method 【 1 】	
		RS-422	接 Connection Method 【 2 】	

* 1AJ71UC24 was checked the connection only by A2NCPU.

Procedure to connect GP to PLC

Select PLC type via GP-PRO/PBIII
C-Package

Refer to

Select PLC type



GP and PLC system settings
should follow the example.

Refer to

System Setting Example



Set GP system settings.
There are 2 settings methods. Use either one.
Set via GP-PRO/PBIII C-Package
And Transfer settings
Set via offline menu of GP

Refer to

System Setting
【GP】



Set PLC's system settings.

Refer to

System Setting 【PLC】



Connect GP to PLC
Verify the connection method matches
connection format, distance, etc.

Refer to **Connection**
Method & **Recommended**
products

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「A Series (AnN) + LINK unit (Large-sized)」 Connection method

Select PLC type

When creating a project file, select the following PLC type.



Mitsubishi MELSEC-AnN(LINK)

System Setting Example

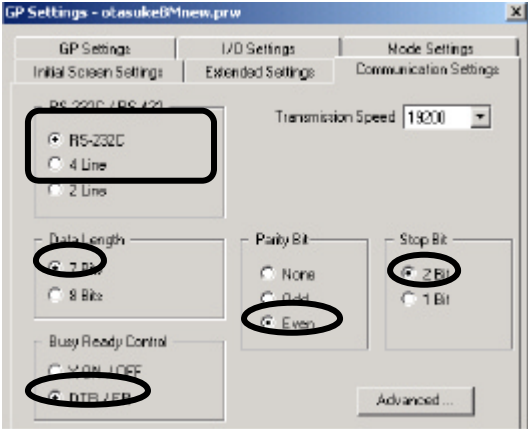
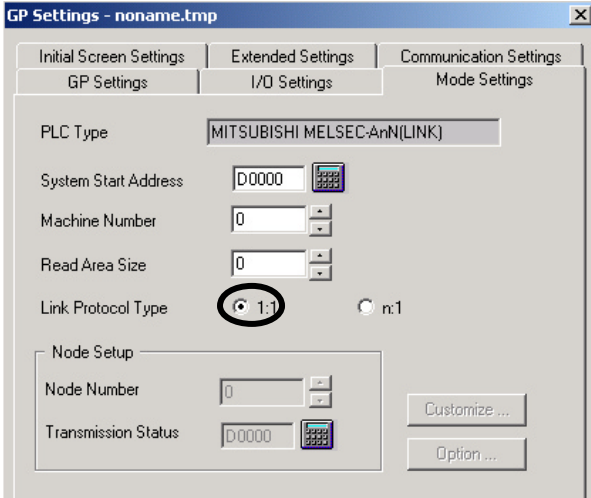
*1 AJ71UC24 Does Not Have this Setup.

GP Setting			Calculator link unit	
Transmission Speed	19200bps		Transmission Speed	19200bps
Data Length	7bit		Data bit	7bit
Stop bit	2bit		Stop bit	2bit
Parity bit	Even		Parity presence Even/Odd parity	Yes Even
Busy Ready Control	ER			
Communication (When using RS-232C)	RS-232C		Channel setting Mode setting (When using)	RS-232C 4(protocol mode Of form 4)
Communication format (When using RS-422)	4 wire type		Channel setting Mode setting (When using RS-422)	RS-422 8 (protocol mode Of form 8)
			Write-in propriety during run	Yes
			Sum check presence	Yes
			Sending end terminator *1	Yes
			Reception side end terminator *1	Yes
Machine Number	0		Unit No.	0

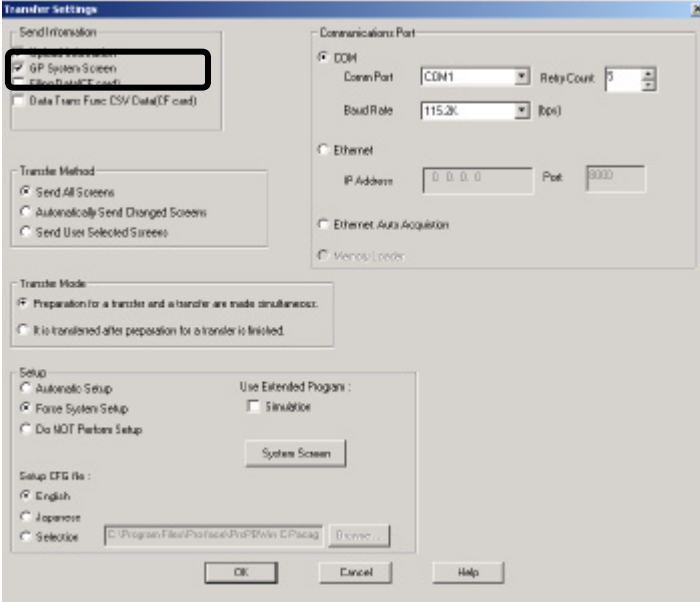
System Setting 【GP】

1 【Setting up by GP-PRO/PB C-Package】

"System construction" is chosen from a project manager screen.

<u>Communication settings</u> 	<u>Communication settings</u> Transmission Speed : 19200bps Data length : 7 bit Stop Bit : 2 bit Parity Bit : Even Busy Ready Control : ER Communication format When using RS-232C : RS-232C When using RS-422 : RS-422(4-wire type) * For choose desired setting.
<u>Mode settings</u> 	<u>Mode settings</u> System Start Address : Optional addresses Machine No. : 0 Link Protocol Type : 1 : 1

Set the screen of 「Project」 → 「Transfer」 → 「Setup」 → 「Transfer Settings」

<u>Transfer settings</u>	<u>Transfer settings</u>
	GP System Screen : checked

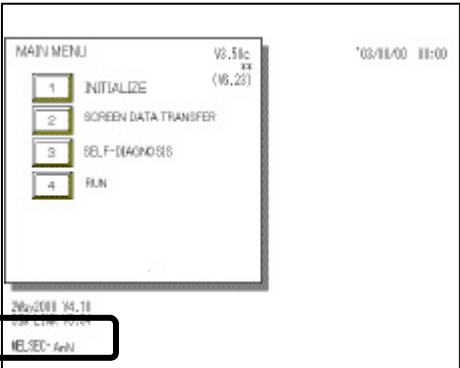
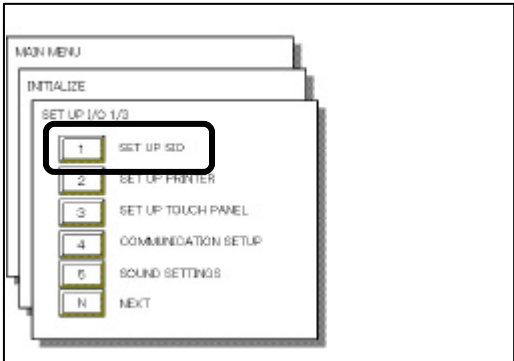
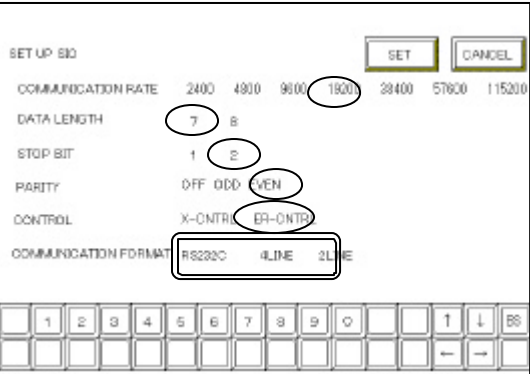
After the settings are complete, transfer them to GP.

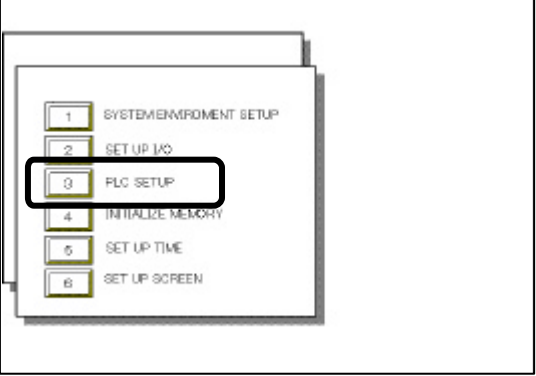
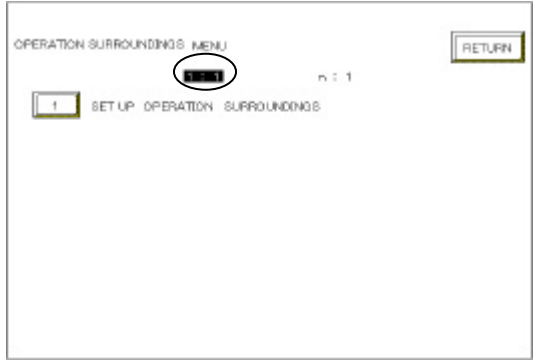
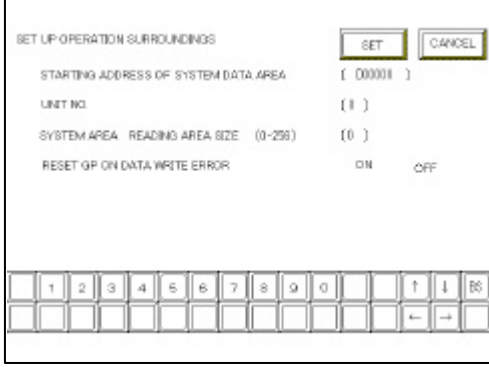
2 【Set up via GP】 Offline Menu

- Display Setting Screen. -

Within 10 seconds after the power supply turns on, push the upper left corner of the screen. Otherwise, push the upper right corner while pushing the lower right corner.

In that condition, push the lower left corner and the menu bar will display on the below part of the screen. Touch [Offline].

<u>Confirmation of GP type</u> 	<u>Confirmation of GP type</u> When Mitsubishi MELSEC - AnN (LINK) is chosen, it is displayed as follows. 「 MELSEC - AnN 」
<u>Communication settings</u> 	<u>Communication settings</u> 「 MAIN MENU 」 ↓ 「 INITIALIZE 」 ↓ 「 SET UP I/O 」 ↓ 「 SET UP SIO 」
	COMMUNICATION RATE :19200bps DATA LENGTH :7bit STOP BIT :2bit PARITY :Even CONTROL :ER-CNTL COMMUNICATION FORMAT RS-232C use :RS-232C RS-422 use :4-wire type * Please select the desired setting.

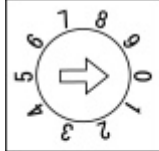
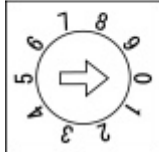
SET UP OPERATION SURROUNDINGS 	SET UP OPERATION SURROUNDINGS 「 MAIN MENU 」 ↓ 「 INITIALIZE 」 ↓ 「 PLC SETUP 」 ↓ 「 SET UP OPERATION SURROUNDINGS 」
	OPERATION SURROUNDINGS:1 : 1
	STARTING ADDRESS OF SYSTEM DATA AREA :Optional addresses UNIT No . :0

System Setting 【PLC】

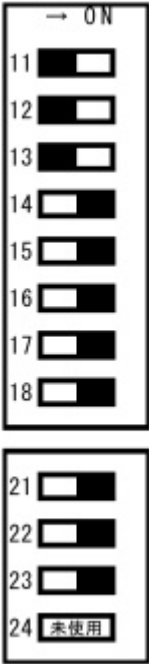
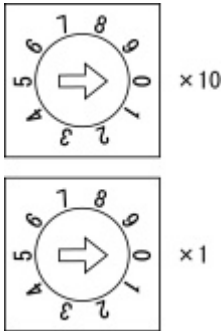
1 【RS-232C】

1-1 【When using Calculator link unit

AJ71C24/AJ71C24-S3/AJ71C24-S6/AJ71C24-S8】

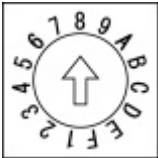
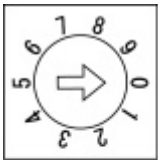
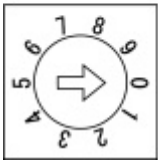
<u>Mode settings</u> MODE 	<u>Mode settings</u> 4 (Form 4 protocol mode)
<u>Communication settings</u> Please set a switch by the black side. ON ← 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16 ☒ 17 ☒ 18 ☒ 21 ☒ 22 ☒ 23 ☒ 24 ☒ SW11 OFF SW12 OFF SW13 OFF SW14 ON SW15 ON SW16 ON SW17 ON SW18 ON SW21 ON SW22 ON SW23 OFF SW24 OFF	<u>Communication settings</u> Transmission Rate: 19200bps Data bit : 7 bit Stop bit : 2 bit Parity Check : Yes Parity Even / Odd :Even Write possible during Run mode :Possible Sum check :Yes Sending end terminator :Yes Reception side terminator :Yes
<u>Station number settings</u> STATION NO  ×10  ×1	<u>Station number settings</u> Station 0

1-2 【When using Calculator link unit AJ71UC24】

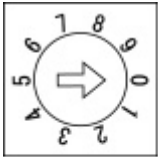
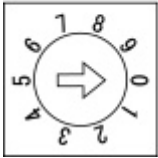
<u>Mode settings</u> MODE 	<u>Mode settings</u> 4 (Form 4 protocol mode)																								
<u>Communication settings</u> Please set a switch by the black side  <table border="0"> <tr><td>SW11</td><td>OFF</td></tr> <tr><td>SW12</td><td>OFF</td></tr> <tr><td>SW13</td><td>OFF</td></tr> <tr><td>SW14</td><td>ON</td></tr> <tr><td>SW15</td><td>ON</td></tr> <tr><td>SW16</td><td>ON</td></tr> <tr><td>SW17</td><td>ON</td></tr> <tr><td>SW18</td><td>ON</td></tr> <tr><td>SW21</td><td>ON</td></tr> <tr><td>SW22</td><td>ON</td></tr> <tr><td>SW23</td><td>ON</td></tr> <tr><td>SW24</td><td>No Use</td></tr> </table>	SW11	OFF	SW12	OFF	SW13	OFF	SW14	ON	SW15	ON	SW16	ON	SW17	ON	SW18	ON	SW21	ON	SW22	ON	SW23	ON	SW24	No Use	<u>Communication settings</u> Transmission Rate : 19200bps Data bit : 7 bit Stop bit : 2 bit Parity Check :Yes Parity even/odd :Even Write possible during Run mode :Possible Sum check :Yes
SW11	OFF																								
SW12	OFF																								
SW13	OFF																								
SW14	ON																								
SW15	ON																								
SW16	ON																								
SW17	ON																								
SW18	ON																								
SW21	ON																								
SW22	ON																								
SW23	ON																								
SW24	No Use																								
<u>Station number settings</u> STATION NO 	<u>Station number settings</u> Station 0																								

2 【RS-422】

2-1 【When using Calculator link unit AJ71C24/AJ71C24-S3/J71C24-S6/AJ71C24-】

<u>Mode settings</u> MODE 	<u>Mode settings</u> 8 (Form 4 protocol mode)
<u>Communication settings</u> Please set a switch by the black side ON ← 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16 ☒ 17 ☒ 18 ☒ SW11 ON SW12 OFF SW13 OFF SW14 ON SW15 ON SW16 ON SW17 ON SW18 ON 21 ☒ 22 ☒ 23 ☒ 24 ☒ SW21 ON SW22 ON SW23 ON SW24 ON	<u>Communication settings</u> Transmission Rate :19200bps Data bit :7 bit Stop bit :2 bit Parity Check :Yes Parity Even / Odd :Even Write possible during Run mode :Possible Sum check :Yes Sending end terminator : Yes Reception side end terminator : Yes
<u>Station number settings</u> STATION NO  ×10  ×1	<u>Station number settings</u> Station 0

2-2 【When using Calculator link unit AJ71UC24 】

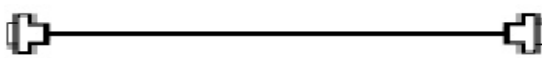
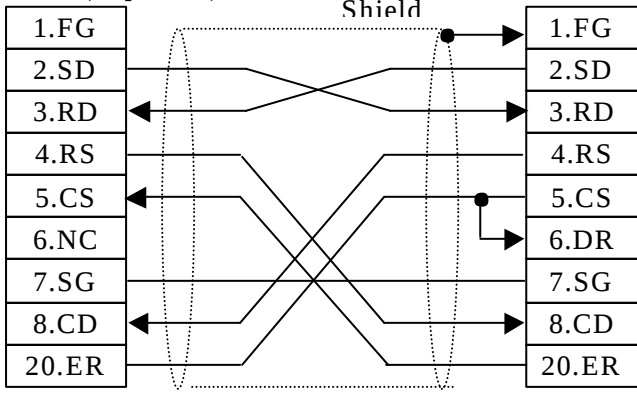
<u>Mode settings</u> MODE 	<u>Mode settings</u> 8 (Form 4 protocol mode)
<u>Communication settings</u> Please set a switch by the black side → ON 11 ☒ 12 ☒ 13 ☒ 14 ☒ 15 ☒ 16 ☒ 17 ☒ 18 ☒ 21 ☒ 22 ☒ 23 ☒ 24 ☒ 未使用 SW11 ON SW12 OFF SW13 OFF SW14 ON SW15 ON SW16 ON SW17 ON SW18 ON SW21 ON SW22 ON SW23 ON SW24 No Use	<u>Communication settings</u> Transmission Rate :19200bps Data bit :7 bit Stop bit :2 bit Parity Check :Yes Parity Even / Odd :Even Write possible during Run mode :Possible Sum check :Yes
<u>Station setting</u> STATION NO  × 10  × 1	<u>Station setting</u> Station 0

Mitsubishi < 4 > Mitsubishi Electric PLC

「 A Series (AnN)+ LINK unit (Large-sized) 」 Connection method

Connection Method

[1] RS-232C

Type	Communication Method	Distance
When using GP410-IS00-O		5m
When creating the cable	GP side (25p male) Shield PLC side(25p male) 	Within 15m



Please be sure to connect SG.

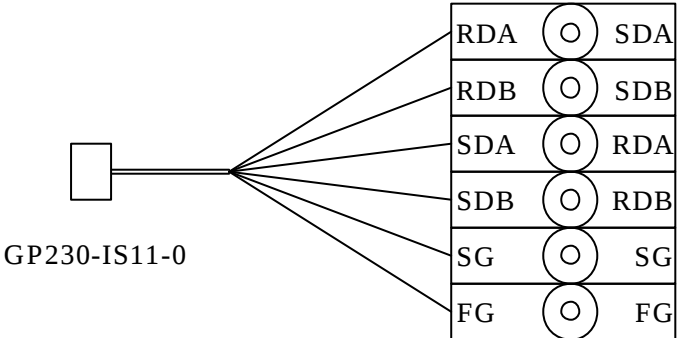
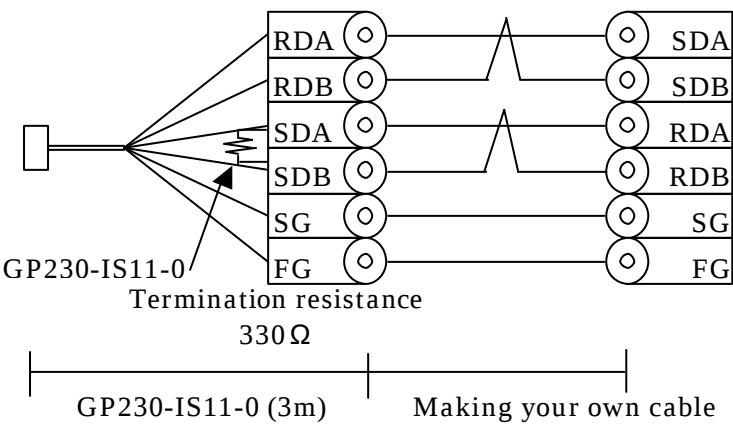
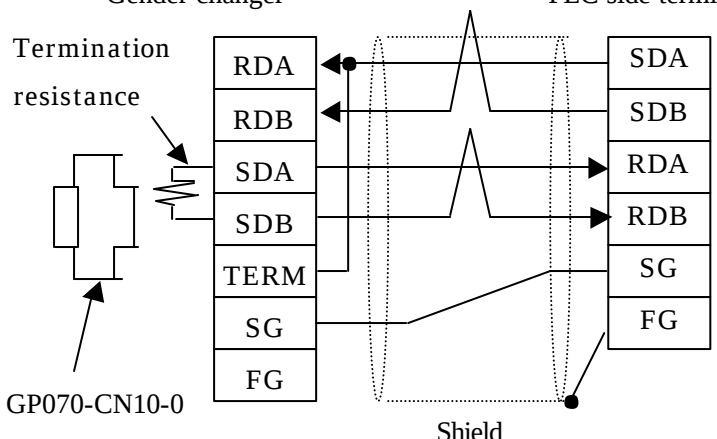


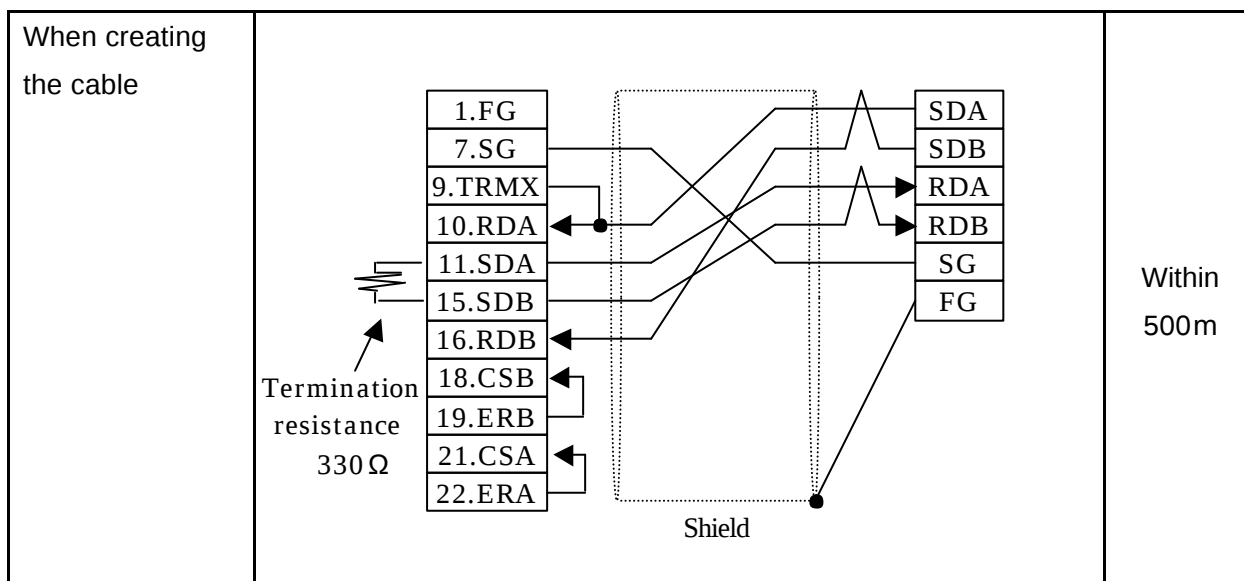
Since Option cable GP410-IS00-O is set only to 5m, please make itself when you connect by the other length.

Recommended products

GP connector / Cover	Dsub25 pin plug	XM2A-2501 <Omron makes>
	Dsub25 cover for pin	XM2S-2511 <Omron makes>
	Screw Jacks	XM2Z-0071 <Omron makes>
Cable	CO-MA-VV-SB5P × 28AWG <Hitachi cable, Ltd. Makes>	
Lock screw	Meter coarse thread M2.6 × 0.45 pitch	

[2] RS-422

Type	Communication Method			Distance
When using GP230-IS11-0	GP side 25pin male	Cable side 6separated line	PLC side 6pole terminal block	5m
				
When extending Use of GP230-IS11-0	GP side 25pin male	Cable side 6separated line	PLC side 6pole terminal block	5 ~ 500m
				
When using GP070-CN10-0	Gender changer		PLC side terminal block	Within 500m
				



Important

- Please be sure to connect SG.
- Please turn on the Terminator switch of PLC side.(except of AJ71UC24)
- About the terminator in the case of using AJ71UC24.

PLC side : Between SDA-SDB Between RDA-RDB 330Ω

(The number of watt specified by the PLC side)

GP side : Required part(refer to connection figure.) 330Ω

(The number of watt specified by the PLC side)

Recommended products

GP connector / Cover	Dsub25 pin plug	XM2A-2501	<Omron makes>
	Dsub25 cover for pin	XM2S-2511	<Omron makes>
	Screw Jacks	XM2Z-0071	<Omron makes>
Cable	SPEV(SB)-MPC-0.2*3P <MITSUBISHI CABLE INDUSTRIES, LTD. Makes>		
Lock screw	Meter coarse thread M2.6 × 0.45 pitch		