



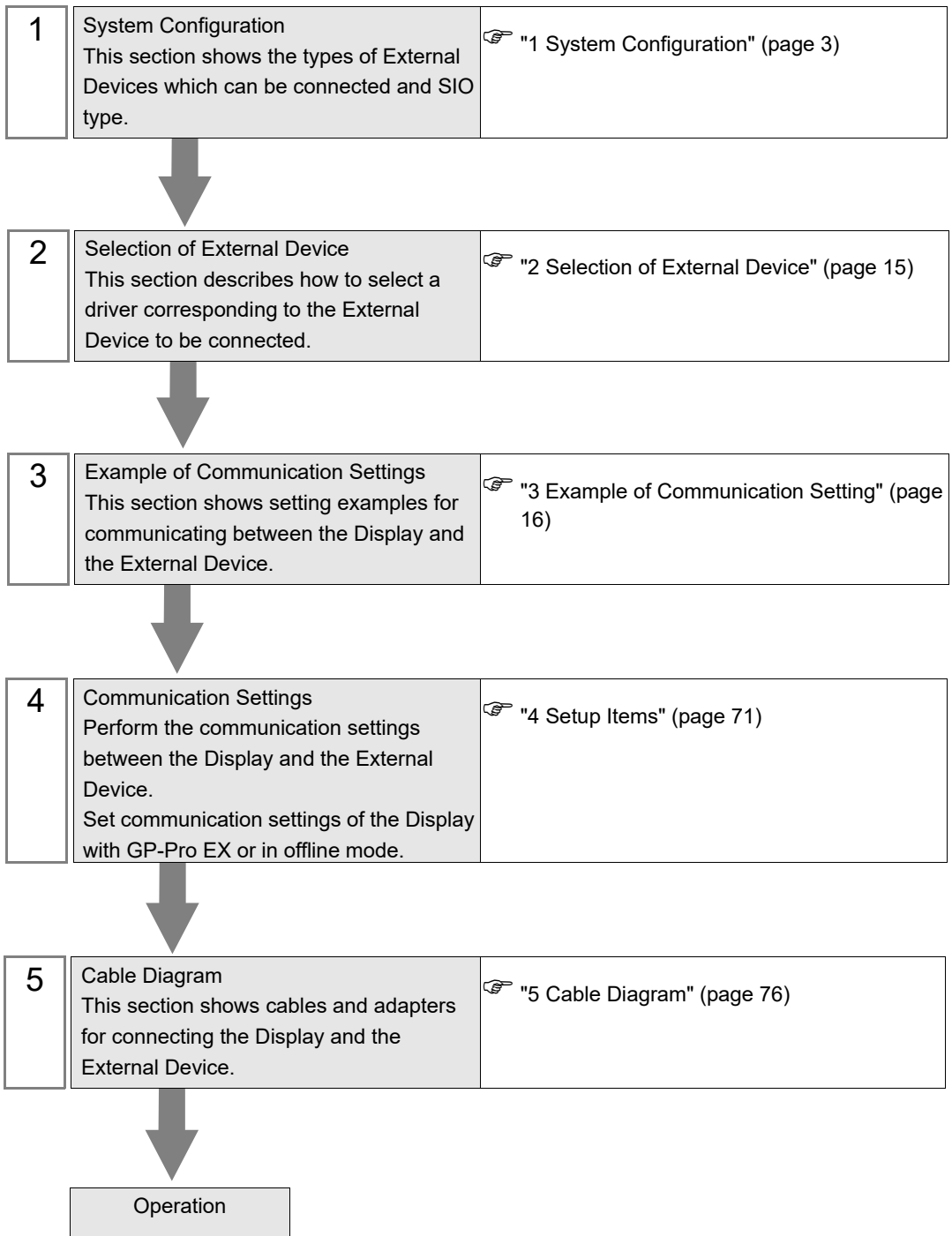
C/CV Series HOST Link Driver

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Introduction

This manual describes how to connect the Display and the External Device (target PLC).

In this manual, the connection procedure will be described by following the below sections:



1 System Configuration

The system configuration in the case when the External Device of OMRON Corporation and the Display are connected is shown.

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram	
SYSMAC C	C200H	C200H-LK201 ^{*1} C120-LK201-V1 ^{*2}	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)	
		C200H-LK202 ^{*1} C120-LK202-V1 ^{*2}	RS422/485 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)	
			RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)	
	C200HS	C200H-LK201 ^{*1} C120-LK201-V1 ^{*2}	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)	
			C200H-LK202 ^{*1}	RS422/485 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
				RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)
		Link I/F on the CPU unit ^{*3}	RS232C	Setting Example 3 (page 23)	Cable Diagram 3 (page 86)	
	Peripheral port on the CPU unit	RS232C	Setting Example 4 (page 25)	Cable Diagram 4 (page 88) ^{*4}		

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SYSMAC C	C500 C500F C1000H C2000 C2000H	C120-LK201-V1* ²	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)
		C120-LK202-V1* ²	RS422/485 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)
		C500-LK201-V1* ²	RS232C	Setting Example 5 (page 27)	Cable Diagram 1 (page 76)
			RS422/485 (4wire)	Setting Example 6 (page 30)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 6 (page 30)	Cable Diagram 14 (page 142)
		C500-LK203* ²	RS232C	Setting Example 5 (page 27)	Cable Diagram 1 (page 76)
			RS422/485 (4wire)	Setting Example 6 (page 30)	Cable Diagram 5 (page 89)
			RS422/485 (4wire) Multilink	Setting Example 6 (page 30)	Cable Diagram 15 (page 150)
	C1000HF	C500-LK201-V1* ²	RS232C	Setting Example 5 (page 27)	Cable Diagram 1 (page 76)
			RS422/485 (4wire)	Setting Example 6 (page 30)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 6 (page 30)	Cable Diagram 14 (page 142)
		C500-LK203* ²	RS232C	Setting Example 5 (page 27)	Cable Diagram 1 (page 76)
			RS422/485 (4wire)	Setting Example 6 (page 30)	Cable Diagram 5 (page 89)
			RS422/485 (4wire) Multilink	Setting Example 6 (page 30)	Cable Diagram 15 (page 150)
	C20H C28H C40H	Link I/F on the CPU unit* ³	RS232C	Setting Example 7 (page 33)	Cable Diagram 6 (page 97)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SYSMAC C	C20PF C28PF C40PF C60PF	C20-LK201-V1*2	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)
		C20-LK202-V1*2	RS422/485 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)
	C120 C120F	C120-LK201-V1*2	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)
		C120-LK202-V1*2	RS422/485 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)
	CQM1-CPU11	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 4 (page 88)*4
	CQM1-CPU21 CQM1-CPU41 CQM1-CPU42 CQM1-CPU43 CQM1-CPU44 CQM1-CPU41-V1 CQM1-CPU42-V1 CQM1-CPU43-V1 CQM1-CPU44-V1	RS232C port on the CPU unit	RS232C	Setting Example 9 (page 37)	Cable Diagram 3 (page 86)
		Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 4 (page 88)*4
	CPM1 CPM1A CPM1A-V1	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 4 (page 88)*4
		CPM1-CIF01	RS232C	Setting Example 10 (page 39)	Cable Diagram 3 (page 86)
		CPM1-CIF11	RS422/485 (4wire)	Setting Example 11 (page 41)	Cable Diagram 7 (page 99)
	RS422/485 (4wire) Multilink		Setting Example 11 (page 41)	Cable Diagram 16 (page 158)	
	SRM1-C02 CPM2A	RS232C port on the CPU unit	RS232C	Setting Example 9 (page 37)	Cable Diagram 3 (page 86)
		CPM1-CIF01		Setting Example 10 (page 39)	
		CPM1-CIF11	RS422/485 (4wire)	Setting Example 11 (page 41)	Cable Diagram 7 (page 99)
RS422/485 (4wire) Multilink			Setting Example 11 (page 41)	Cable Diagram 16 (page 158)	

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SYSMAC C	CPM2C	Communication port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 9 (page 111) ^{*4}
				Setting Example 8 (page 35)	Cable Diagram 8 (page 108)
		Peripheral port on CPM2C-CIF01	RS232C	Setting Example 12 (page 43)	Cable Diagram 9 (page 111) ^{*4}
		RS232C port on CPM2C-CIF01	RS232C	Setting Example 13 (page 45)	Cable Diagram 3 (page 86)
		RS232C port on CPM2C-CIF11	RS232C	Setting Example 14 (page 47)	Cable Diagram 3 (page 86)
		Terminal block on CPM2C-CIF11	RS422/485 (4wire)	Setting Example 15 (page 49)	Cable Diagram 10 (page 112)
	RS422/485 (4wire) Multilink		Setting Example 15 (page 49)	Cable Diagram 17 (page 166)	
	CQM1H-CPU11	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 9 (page 111) ^{*4}
				Setting Example 8 (page 35)	Cable Diagram 8 (page 108)
	CQM1H-CPU21	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 9 (page 111) ^{*4}
				Setting Example 8 (page 35)	Cable Diagram 8 (page 108)
		RS232C port on the CPU unit	RS232C	Setting Example 9 (page 37)	Cable Diagram 3 (page 86)
	CQM1H-CPU51 CQM1H-CPU61	Peripheral port on the CPU unit	RS232C	Setting Example 8 (page 35)	Cable Diagram 9 (page 111) ^{*4}
				Setting Example 8 (page 35)	Cable Diagram 8 (page 108)
		RS232C port on the CPU unit	RS232C	Setting Example 9 (page 37)	Cable Diagram 3 (page 86)
		RS232C port on CQM1H-SCB41	RS232C	Setting Example 16 (page 51)	Cable Diagram 3 (page 86)
		RS422A/485 port on CQM1H-SCB41	RS422/485 (4wire)	Setting Example 17 (page 53)	Cable Diagram 11 (page 122) ^{*5}
	RS422/485 (4wire) Multilink		Setting Example 17 (page 53)	Cable Diagram 18 (page 177) ^{*5}	

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SYSMAC α	C200HE-CPU42 C200HG-CPU63 C200HG-CPU43 C200HX-CPU64 C200HX-CPU44 C200HE-CPU42-Z C200HG-CPU63-Z C200HG-CPU43-Z C200HX-CPU85-Z C200HX-CPU65-Z C200HX-CPU64-Z C200HX-CPU44-Z	RS232C port on the CPU unit	RS232C	Setting Example 18 (page 55)	Cable Diagram 3 (page 86)
		C200HW-COM02-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
		C200HW-COM03-V1	RS422 (4wire)	Setting Example 20 (page 59)	Cable Diagram 11 (page 122)
			RS422/485 (4wire) Multilink	Setting Example 20 (page 59)	Cable Diagram 18 (page 177)
		C200HW-COM04-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
		C200HW-COM05-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
		C200HW-COM06-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
			RS422 (4wire)	Setting Example 20 (page 59)	Cable Diagram 11 (page 122)
			RS422/485 (4wire) Multilink	Setting Example 20 (page 59)	Cable Diagram 18 (page 177)
		C200H-LK201-V1	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SYSMAC α	C200HX-CPU34 C200HX-CPU54 C200HX-CPU34-Z C200HX-CPU54-Z C200HE-CPU32 C200HE-CPU32-Z C200HG-CPU33 C200HG-CPU33-Z C200HG-CPU53 C200HG-CPU53-Z	C200HW-COM02-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
		C200HW-COM03-V1	RS422 (4wire)	Setting Example 20 (page 59)	Cable Diagram 11 (page 122)
			RS422/485 (4wire) Multilink	Setting Example 20 (page 59)	Cable Diagram 18 (page 177)
		C200HW-COM04-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
		C200HW-COM05-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
		C200HW-COM06-V1	RS232C	Setting Example 19 (page 57)	Cable Diagram 3 (page 86)
			RS422 (4wire)	Setting Example 20 (page 59)	Cable Diagram 11 (page 122)
			RS422/485 (4wire) Multilink	Setting Example 20 (page 59)	Cable Diagram 18 (page 177)
		C200H-LK201-V1	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
	RS422/485 (4wire) Multilink		Setting Example 2 (page 20)	Cable Diagram 14 (page 142)	
	C200HE-CPU11 C200HE-CPU11-Z	C200H-LK201-V1	RS232C	Setting Example 1 (page 16)	Cable Diagram 1 (page 76)
		C200H-LK202-V1	RS422 (4wire)	Setting Example 2 (page 20)	Cable Diagram 2 (page 78)
			RS422/485 (4wire) Multilink	Setting Example 2 (page 20)	Cable Diagram 14 (page 142)

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
SYSMAC CV	CV500 CV1000 CV2000 CVM1 CVM1D	CV500-LK201	RS232C (connecting port 1)	Setting Example 21 (page 61)	Cable Diagram 1 (page 76)
			RS232C (connecting port 2)	Setting Example 22 (page 63)	Cable Diagram 12 (page 132)
			RS422/485 (4wire) (connecting port 2)	Setting Example 23 (page 65)	Cable Diagram 13 (page 134)
			RS422/485 (4wire) Multilink	Setting Example 23 (page 65)	Cable Diagram 19 (page 188)
		Link I/F on the CPU unit*6	RS232C	Setting Example 24 (page 67)	Cable Diagram 12 (page 132)
			RS422/485 (4wire)	Setting Example 25 (page 69)	Cable Diagram 13 (page 134)
			RS422/485 (4wire) Multilink	Setting Example 25 (page 69)	Cable Diagram 19 (page 188)

*1 Base mounting type.

*2 CPU mounting type.

*3 Connect to RS232C port.

*4 Commercial 9 pin-25 pin conversion adapter is required.

*5 Set the 2wire/4wire toggle switch to 4wire (Only 4wire type is available to use).

*6 Connect to the HOSTLINK port.

IMPORTANT

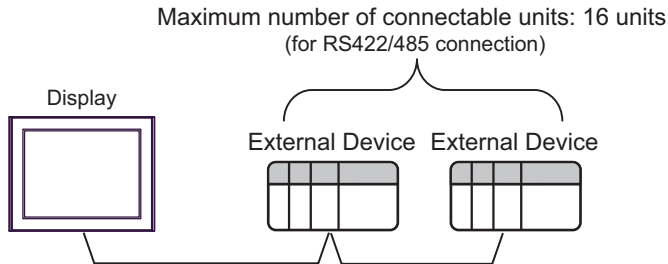
- For SYSMAC- α Series, please note as below.
- We cannot guarantee the operation when you access the nonexistent data memory area (DM6656 to DM6999).
- We cannot guarantee the operation when you access to DM7000 to DM9999 without the extension fixed DM setting.
- We cannot guarantee the operation when you specify the area within the range in the models in which the bank of the extension memory area does not exist.

■ Connection Configuration

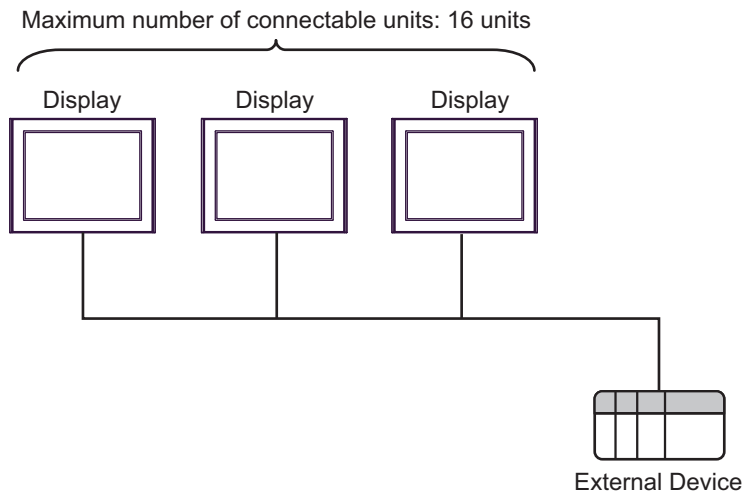
- 1:1 Connection



- 1:n Connection



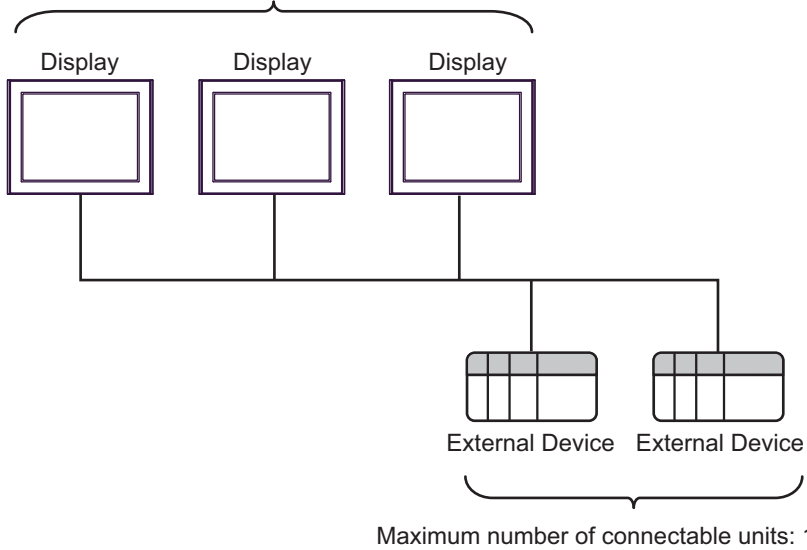
- n:1 Connection (Multilink connection)



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- NOTE** • The maximum number of connectable Displays is 16 units. However, keeping performance in consideration, the number of Displays that can be substantially used is up to 4.
-

- n:m Connection (Multilink connection)

Maximum number of connectable units: 16 units

**NOTE**

- The maximum number of connectable Displays is 16 units. However, keeping performance in consideration, the number of Displays that can be substantially used is up to 4.

■ IPC COM Port

When connecting IPC with an External Device, the COM port used depends on the series and SIO type. Please refer to the IPC manual for details.

Usable port

Series	Usable Port		
	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)
PS-2000B	COM1 ^{*1} , COM2, COM3 ^{*1} , COM4	-	-
PS-3450A, PS-3451A, PS3000-BA, PS3001-BD	COM1, COM2 ^{*1*2}	COM2 ^{*1*2}	COM2 ^{*1*2}
PS-3650A (T41 model), PS-3651A (T41 model)	COM1 ^{*1}	-	-
PS-3650A (T42 model), PS-3651A (T42 model)	COM1 ^{*1*2} , COM2	COM1 ^{*1*2}	COM1 ^{*1*2}
PS-3700A (Pentium®4-M) PS-3710A	COM1 ^{*1} , COM2 ^{*1} , COM3 ^{*2} , COM4	COM3 ^{*2}	COM3 ^{*2}
PS-3711A	COM1 ^{*1} , COM2 ^{*2}	COM2 ^{*2}	COM2 ^{*2}
PS4000 ^{*3}	COM1, COM2	-	-
PL3000	COM1 ^{*1*2} , COM2 ^{*1} , COM3, COM4	COM1 ^{*1*2}	COM1 ^{*1*2}
PE-4000B Atom N270	COM1, COM2	-	-
PE-4000B Atom N2600	COM1, COM2	COM3 ^{*4} , COM4 ^{*4} , COM5 ^{*4} , COM6 ^{*4}	COM3 ^{*4} , COM4 ^{*4} , COM5 ^{*4} , COM6 ^{*4}
PS5000 (Slim Panel Type Core i3 Model) ^{*5*6}	COM1, COM2 ^{*4}	COM2 ^{*4}	COM2 ^{*4}
PS5000 (Slim Panel Type Atom Model) ^{*5*6}	COM1, COM2 ^{*7}	COM2 ^{*7}	COM2 ^{*7}
PS5000 (Enclosed Panel Type) ^{*8}	COM1	-	-
PS5000 (Modular Type PFXPU/PFXPP) ^{*5*6} PS5000 (Modular Type PFXPL2B5-6)	COM1 ^{*7}	COM1 ^{*7}	COM1 ^{*7}
PS5000 (Modular Type PFXPL2B1-4)	COM1, COM2 ^{*7}	COM2 ^{*7}	COM2 ^{*7}
PS6000 (Advanced Box) PS6000 (Standard Box)	COM1 ^{*9}	*10	*10
PS6000 (Basic Box)	COM1 ^{*9}	COM1 ^{*9}	COM1 ^{*9}

*1 The RI/5V can be switched. Use the IPC's switch to change if necessary.

*2 Set up the SIO type with the DIP Switch. Please set up as follows according to SIO type to be used.

- *3 When making communication between an External Device and COM port on the Expansion slot, only RS-232C is supported. However, ER (DTR/CTS) control cannot be executed because of the specification of COM port.
For connection with External Device, use user-created cables and disable Pin Nos. 1, 4, 6 and 9. Please refer to the IPC manual for details of pin layout.
- *4 Set up the SIO type with the BIOS. Please refer to the IPC manual for details of BIOS.
- *5 When setting up communication between an External Device and the RS-232C/422/485 interface module, use the IPC (RS-232C) or PS5000 (RS-422/485) cable diagrams. However, when using PFXZPBMPR42P2 in a RS-422/485 (4-wire) configuration with no flow control, connect 7.RTS+ and 8.CTS+, and connect 6.RTS- and 9.CTS-.
When using RS-422/485 communication with External Devices, you may need to reduce the transmission speed and increase the TX Wait time.
- *6 To use RS-422/485 communication on the RS-232C/422/485 interface module, the DIP Switch setting is required. Please refer to "Knowledge Base" (FAQs) on the support site. (<http://www.pro-face.com/trans/en/manual/1001.html>)

Settings	FAQ ID
PFXZPBMPR42P2, RS422/485 change method	FA263858
PFXZPBMPR42P2 termination resistor setting	FA263974
PFXZPBMPR44P2, RS422/485 change method	FA264087
PFXZPBMPR44P2 termination resistor setting	FA264088

- *7 Set up the SIO type with the DIP Switch. Please refer to the IPC manual for details of DIP Switch. The BOX Atom has not a switch to set the RS-232C, RS-422/485 mode. Use the BIOS for the setting.
- *8 For the connection with the External Device, on the user-created cable read as if the connector on the Display-side is a M12 A-coding 8 pin socket. The pin assignment is the same as described in the cable diagram. For the M12 A-coding connector, use PFXZPSCNM122.
- *9 In addition to COM1, you can also use the COM port on the optional interface.
- *10 Install the optional interface in the expansion slot.

DIP Switch settings (PL3000 / PS3000 Series)

RS-232C

DIP Switch	Setting	Description
1	OFF*1	Reserved (always OFF)
2	OFF	SIO type: RS-232C
3	OFF	
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220Ω) insertion to RD (RXD): None
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available
9	OFF	RS (RTS) Auto control mode: Disabled
10	OFF	

*1 When using PS-3450A, PS-3451A, PS3000-BA and PS3001-BD, turn ON the set value.

RS-422/485 (4 wire)

DIP Switch	Setting	Description
1	OFF	Reserved (always OFF)
2	ON	SIO type: RS-422/485
3	ON	
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220Ω) insertion to RD (RXD): None
7	OFF	Short-circuit of SDA (TXA) and RDA (RXA): Not available
8	OFF	Short-circuit of SDB (TXB) and RDB (RXB): Not available
9	OFF* ¹	RS (RTS) Auto control mode: Disabled
10	OFF* ¹	

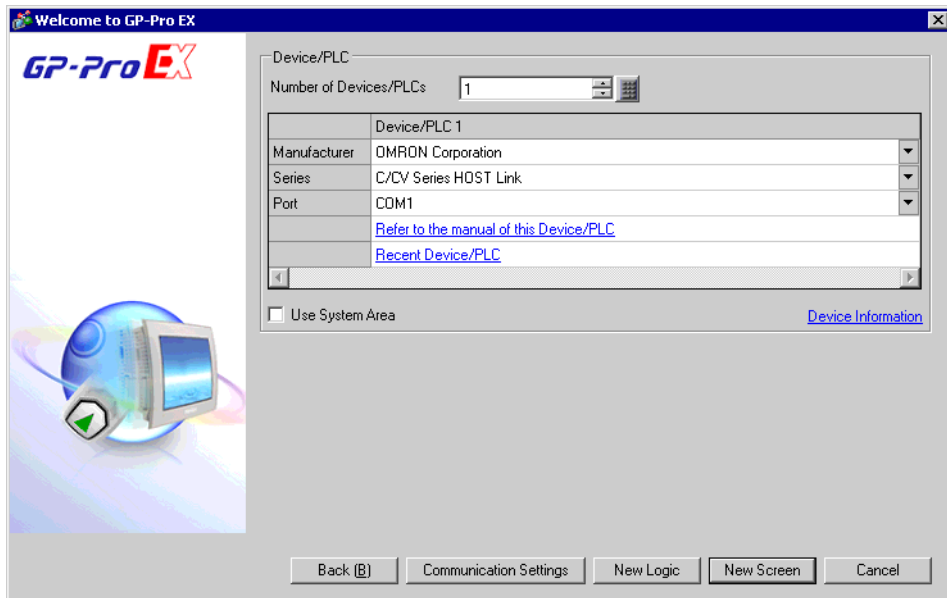
*1 When the connection configuration are the n:1 and n:m connections (both Multilink connections), turn ON the set value.

RS-422/485 (2 wire)

DIP Switch	Setting	Description
1	OFF	Reserved (always OFF)
2	ON	SIO type: RS-422/485
3	ON	
4	OFF	Output mode of SD (TXD) data: Always output
5	OFF	Terminal resistance (220Ω) insertion to SD (TXD): None
6	OFF	Terminal resistance (220Ω) insertion to RD (RXD): None
7	ON	Short-circuit of SDA (TXA) and RDA (RXA): Available
8	ON	Short-circuit of SDB (TXB) and RDB (RXB): Available
9	ON	RS (RTS) Auto control mode: Enabled
10	ON	

2 Selection of External Device

Select the External Device to be connected to the Display.



Setup Items	Setup Description
Number of Devices/PLCs	Enter an integer from 1 to 4 to define the number of Devices/PLCs to connect to the display.
Manufacturer	Select the manufacturer of the External Device to connect. Select "OMRON Corporation".
Series	Select the External Device model (series) and the connection method. Select "C/CV Series HOST Link". In System configuration, make sure the External Device you are connecting is supported by "C/CV Series HOST Link". ☞ "1 System Configuration" (page 3)
Port	Select the Display port to connect to the External Device.
Use System Area	Check this option to synchronize the system data area of the Display and the device (memory) of the External Device. When synchronized, you can use the External Device's ladder program to switch the display or display the window on the Display. Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)" This feature can also be set in GP-Pro EX or in the Display's offline mode. Cf. GP-Pro EX Reference Manual "System Settings [Display Unit] - [System Area] Settings Guide" Cf. Maintenance/Troubleshooting Guide "Main Unit - System Area Settings"

3 Example of Communication Setting

Examples of communication settings of the Display and the External Device, recommended by Pro-face, are shown.

3.1 Setting Example 1

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1

Summary [Change Device/PLC](#)

Manufacturer Series Port

Text Data Mode [Change](#)

Communication Settings

RS232C
 RS422/485(2wire)
 RS422/485(4wire)

Speed

Data Length 7 8

Parity NONE EVEN ODD

Stop Bit 1 2

Flow Control NONE ER(DTR/CTS) XON/XOFF

Timeout (sec)

Retry

Wait To Send (ms)

RI / VCC
 RI
 VCC


In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.

Device-Specific Settings

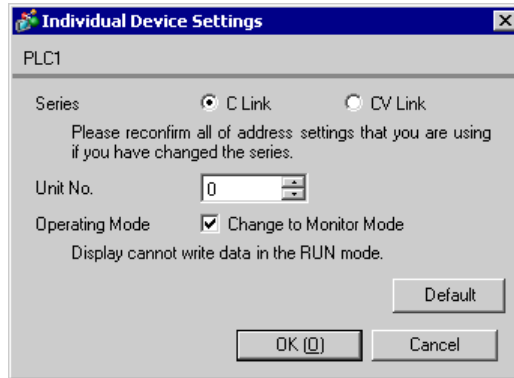
Allowable Number of Devices/PLCs [Add Device](#)

No.	Device Name	Settings	Add Indirect Device
1	PLC1	Series=C Link,Unit No.=0,Change to Monitor Mode=01	<input type="button" value="+"/>

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.



■ Setting of External Device

Set the HOST link unit attached to the External Device as below.

Please refer to the manual of the External Device for more details.

◆ C200H-LK201

Rotary Switch	Settings	Setup Description
SW1	0	Unit No. x 10
SW2	0	Unit No. x 1
SW3	6	Transmission speed: 19.2Kbps
SW4	2	7-bit data length, 2 stop bits, Even

DIP Switch (rear panel)	Settings	Setup Description
SW1	OFF	Unused
SW2	OFF	Unused
SW3	ON	1:N step
SW4	OFF	Without 5V supply

Set the CTS control to 0V (always ON).

◆ C120-LK201-V1

DIP Switch 1	Settings	Setup Description
SW1	OFF	Unit No.: 0
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	Unused
SW7	OFF	
SW8	ON	Operation

DIP Switch 2	Settings	Setup Description
SW1	OFF	Transmission speed: 19.2Kbps
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	
DIP Switch 3	Settings	Setup Description
SW1	ON	CTS always ON
SW2	OFF	
SW3	ON	Internally synchronized
SW4	OFF	
SW5	ON	
SW6	OFF	
SW7	OFF	Unused
SW8	OFF	

3.2 Setting Example 2


■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes fields for Manufacturer (OMRON Corporation), Series (C/CV Series HOST Link), and Port (COM1). The 'Text Data Mode' is set to 3. The 'Communication Settings' section includes radio buttons for SID Type (RS232C, RS422/485(2wire), RS422/485(4wire)), a Speed dropdown (19200), Data Length (7, 8), Parity (NONE, EVEN, ODD), Stop Bit (1, 2), Flow Control (NONE, ER(DTR/CTS), XON/XOFF), Timeout (3 sec), Retry (2), and Wait To Send (0 ms). There is a section for RI/VCC with radio buttons for RI and VCC, and a 'Default' button. The 'Device-Specific Settings' section shows 'Allowable Number of Devices/PLCs' as 16, with an 'Add Device' button. Below is a table with one entry: No. 1, Device Name PLC1, and Settings Series=C Link, Unit No.=0, Change to Monitor Mode=01. An 'Add Indirect Device' button is also present.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for PLC1. It has a title bar with a close button. The 'Series' section has radio buttons for C Link (selected) and CV Link. Below this is a warning: 'Please reconfirm all of address settings that you are using if you have changed the series.' The 'Unit No.' is a dropdown menu set to 0. The 'Operating Mode' section has a checked checkbox for 'Change to Monitor Mode' and a note: 'Display cannot write data in the RUN mode.' At the bottom are buttons for 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

Set the HOST link unit attached to the External Device as below.

Please refer to the manual of the External Device for more details.

◆ C200H-LK202

Rotary switch	Settings	Setup Description
SW1	0	Unit No. x 10
SW2	0	Unit No. x 1
SW3	6	Transmission speed: 19.2Kbps
SW4	2	7-bit data length, 2 stop bits, Even

Set the rear switch as below.

- 1:N step (OFF)
- When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance connection (ON)"; in other cases, set it to "Without termination resistance connection (OFF)"

◆ C120-LK202-V1

DIP Switch 1	Settings	Setup Description
SW1	OFF	Unit No.: 0
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	Unused
SW7	OFF	
SW8	ON	Operation

DIP Switch 2	Settings	Setup Description
SW1	OFF	Transmission speed: 19.2Kbps
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	

- When the External Device is located at the end of the communication connection due to system configuration

DIP Switch 3	Settings	Setup Description
SW1	ON	Attach termination resistance
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	ON	
SW6	OFF	
SW7	OFF	Unused
SW8	OFF	

- In Other Cases

DIP Switch 3	Settings	Setup Description
SW1	ON	Not attach termination resistance
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	
SW7	OFF	Unused
SW8	OFF	

3.3 Setting Example 3

■ Setting of GP-Pro EX


◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. An 'Add Device' link is available.
- Device List:** A table with columns 'No.', 'Device Name', and 'Settings'. The first entry is '1', 'PLC1', and 'Series=C Link, Unit No.=0, Change to Monitor Mode=01'. An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'

Buttons at the bottom include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

◆ When setting with the ladder tool

Open [PC System Setting] in the ladder tool and set the HOST link port in [HOST Link Port]. Please refer to the manual of the External Device for more details on the ladder tool.

Setup Items	Setting Value
Communication Settings	User setting
Speed	19200
Parameter	7, 2, E
Mode	HOST link
Unit No.	0 unit
Delay	0
CS Control	Enable

◆ When setting the value in the data register

Use the ladder tool or etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.4 Setting Example 4

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. A 'Change Device/PLC' link is visible.
- Text Data Mode:** Set to 3, with a 'Change' link.
- Communication Settings:**
 - SIQ Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200 (dropdown)
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 16, with an 'Add Device' link.
 - Table:

No.	Device Name	Settings	Add Indirect Device
1	PLC1	Series=C Link,Unit No.=0,Change to Monitor Mode=01	

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings]

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following fields and options:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0 (dropdown)
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'
- Buttons: 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

◆ When setting with the ladder tool

Open [PC System Setting] in the ladder tool and set the peripheral port in [Peripheral Port]. Please refer to the manual of the External Device for more details on the ladder tool.

Setup Items	Setting Value
Communication Settings	User setting
Speed	19200
Parameter	7, 2, E
Mode	HOST link
Unit No.	0 unit
Delay	0
CS Control	Enable

◆ When setting the value in the data register

Use the ladder tool or etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.5 Setting Example 5


■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes fields for Manufacturer (OMRON Corporation), Series (C/CV Series HOST Link), and Port (COM1). The 'Text Data Mode' is set to 3. The 'Communication Settings' section includes radio buttons for RS232C (selected), RS422/485(2wire), and RS422/485(4wire). Other settings include Speed (19200), Data Length (7), Parity (EVEN), Stop Bit (2), Flow Control (ER(DTR/CTS)), Timeout (3 sec), Retry (2), and Wait To Send (0 ms). A note explains the RI/VCC selection. The 'Device-Specific Settings' section shows an allowable number of 16 devices and a table with one device named 'PLC1'.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It has radio buttons for 'C Link' (selected) and 'CV Link'. A message asks to reconfirm address settings if the series is changed. The 'Unit No.' is set to 0. The 'Operating Mode' has a checked box for 'Change to Monitor Mode', with a note that 'Display cannot write data in the RUN mode.' Buttons for 'Default', 'OK (O)', and 'Cancel' are at the bottom.

■ Setting of External Device

Set the HOST link unit attached to the External Device as below.

Please refer to the manual of the External Device for more details on settings.

◆ C500-LK201-V1

DIP Switch 1	Settings	Setup Description
SW1	OFF	Unit No.: 0
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	Unused
SW7	OFF	Unused
SW8	ON	Operation

DIP Switch 2	Settings	Setup Description
SW1	OFF	Transmission speed: 19.2Kbps
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	

Mode Control Switch (front of the unit): HOST link

I/O Port (rear of the unit): RS-232C

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): None

CTS (rear of the unit): 0V

◆ C500-LK203

DIP Switch 1	Settings	Setup Description
SW1	OFF	Unit No.: 0
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	7-bit data length, 2 stop bits, Even
SW7	OFF	
SW8	OFF	Normal
DIP Switch 2	Settings	Setup Description
SW1	OFF	Transmission speed: 19.2Kbps
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	ON	System #0
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	

Mode Control Switch (front of the unit): HOST link

5V supply (rear of the unit): OFF

I/O Port (rear of the unit): RS-232C

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): None

CTS (rear of the unit): 0V

3.6 Setting Example 6

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

■ Setting of External Device

Set the HOST link unit attached to the External Device as below.

Please refer to the manual of the External Device for more details on settings.

◆ C500-LK201-V1

DIP Switch 1	Settings	Setup Description
SW1	OFF	Unit No.: 0
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	Unused
SW7	OFF	Unused
SW8	ON	Operation

DIP Switch 2	Settings	Setup Description
SW1	OFF	Transmission speed: 19.2Kbps
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	OFF	Unused
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	

Mode Control Switch (front of the unit): HOST link

I/O Port (rear of the unit): RS-422

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): When the External Device is located at the end of the communication connection due to system configuration, set it to [With]; in other cases, set it to [Without].

CTS (rear of the unit): 0V

◆ C500-LK203

DIP Switch 1	Settings	Setup Description
SW1	OFF	Unit No.: 0
SW2	OFF	
SW3	OFF	
SW4	OFF	
SW5	OFF	
SW6	OFF	7-bit data length, 2 stop bits, Even
SW7	OFF	
SW8	OFF	Normal
DIP Switch 2	Settings	Setup Description
SW1	OFF	Transmission speed: 19.2Kbps
SW2	OFF	
SW3	ON	
SW4	OFF	
SW5	ON	System #0
SW6	OFF	1:N step
SW7	ON	Level 1, 2, 3 Enabled
SW8	ON	

Mode Control Switch (front of the unit): HOST link

5V supply (rear of the unit): OFF

I/O Port (rear of the unit): RS-422

Synchronize (rear of the unit): Internal

Termination resistance (rear of the unit): When the External Device is located at the end of the communication connection due to system configuration, set it to [With]; in other cases, set it to [Without].

CTS (rear of the unit): 0V

3.7 Setting Example 7

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 9600
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
 - RI / VCC: RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.'
 - A 'Default' button is present.
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 16. An 'Add Device' link is present.
 - A table lists the device:

No.	Device Name	Settings
1	PLC1	Series=C Link, Unit No.=0, Change to Monitor Mode=01
 - An 'Add Indirect Device' button is located at the bottom right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'
- Buttons: 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

Perform the communication in the standard settings (default).

Please refer to the manual of the External Device for more details on settings.

Setup Items	Setting Value
Speed	9600bps
Start Bit	1 bit
Data Length	7 bits
Stop Bit	2 bits
Parity Bit	Even
Unit No.	No.0 unit

3.8 Setting Example 8

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. An 'Add Device' link is available.
- Device List:** A table with columns 'No.', 'Device Name', and 'Settings'. It contains one entry: '1 | PLC1 | Series=C Link,Unit No.=0,Change to Monitor Mode=0'. An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'

Buttons at the bottom include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

Use the ladder tool etc. and set the value as below.

When connecting to CPM1 or CPM1H, set SW5 to OFF.

When connecting to CPM2C, set SW1 for "Connecting port function switch setting" to OFF, SW2 to ON. Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.9 Setting Example 9

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes:

- Manufacturer: OMRON Corporation
- Series: C/CV Series HOST Link
- Port: COM1
- Text Data Mode: 3 (with a 'Change' link)

 The 'Communication Settings' section includes:


- SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
- Speed: 19200 (dropdown)
- Data Length: 7, 8
- Parity: NONE, EVEN, ODD
- Stop Bit: 1, 2
- Flow Control: NONE, ER(DTR/CTS), XON/XOFF
- Timeout: 3 (spin box) (sec)
- Retry: 2 (spin box)
- Wait To Send: 0 (spin box) (ms)
- RI / VCC: RI, VCC

 A note below the RI/VCC section states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.

 The 'Device-Specific Settings' section includes:

- Allowable Number of Devices/PLCs: 16 (with an 'Add Device' link)
- A table with columns: No., Device Name, Settings. Row 1: 1, PLC1, Series=C Link, Unit No.=0, Change to Monitor Mode=01.
- An 'Add Indirect Device' button.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The 'Individual Device Settings' dialog box for 'PLC1' shows:

- Series: C Link, CV Link
- A warning message: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.: 0 (spin box)
- Operating Mode: Change to Monitor Mode
- A note: 'Display cannot write data in the RUN mode.'
- Buttons: Default, OK (O), Cancel

■ Setting of External Device

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.10 Setting Example 10

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode is set to 3.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
 - RI / VCC: RI, VCC. A note states: "In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC."
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 16
 - A table lists the device: No. 1, Device Name: PLC1, Settings: Series=C Link, Unit No.=0, Change to Monitor Mode=01.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The 'Individual Device Settings' dialog box for PLC1 shows the following configuration:

- Series:** C Link, CV Link. A note says: "Please reconfirm all of address settings that you are using if you have changed the series."
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: "Display cannot write data in the RUN mode."

■ Setting of External Device

Use the ladder tool etc. and set the value as below.

Always set the mode setting SW on the conversion adapter to [HOST].

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

*Connect the conversion adapter to the peripheral port on the CPU.

3.11 Setting Example 11

■ Setting of GP-Pro EX


◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. A 'Change Device/PLC' link is visible.
- Text Data Mode:** Set to 3, with a 'Change' link.
- Communication Settings:**
 - SIQ Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200 (dropdown)
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note explains: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 16, with an 'Add Device' link.
 - Table with columns: No., Device Name, Settings. Row 1: 1, PLC1, Series=C Link, Unit No.=0, Change to Monitor Mode=01.
 - 'Add Indirect Device' button with a plus icon.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0 (dropdown)
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'
- Buttons: Default, OK (O), Cancel.

■ Setting of External Device

Use the ladder tool or etc. and set the value as below.

Always set the mode setting SW on the conversion adapter to [HOST].

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

*Connect the conversion adapter to the peripheral port on the CPU.


3.12 Setting Example 12

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

■ Setting of External Device

When using the peripheral port on the CPM2C-CIF01

Use the ladder tool or etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Connecting Port Function Setting Switch on the CPU Unit

DIP Switch	Settings
SW1	OFF
SW2	ON

*Connect the conversion adapter to the communication port on the CPU.

3.13 Setting Example 13

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: "In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC." A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. A table lists device settings:

No.	Device Name	Settings
1	PLC1	Series=C Link, Unit No.=0, Change to Monitor Mode=On

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The 'Individual Device Settings' dialog box for PLC1 shows the following configuration:

- Series:** C Link, CV Link. A note says: "Please reconfirm all of address settings that you are using if you have changed the series."
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: "Display cannot write data in the RUN mode."

Buttons: Default, OK, Cancel.

■ Setting of External Device

When using the RS232C port on the CPM2C-CIF01

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Connecting Port Function Setting Switch on the CPU Unit

DIP Switch	Settings
SW1	OFF
SW2	ON

*Connect the conversion adapter to the communication port on the CPU.

3.14 Setting Example 14

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. An 'Add Device' link is available.
- Device List:** A table with columns 'No.', 'Device Name', and 'Settings'. It contains one entry: No. 1, Device Name 'PLC1', Settings 'Series=C Link,Unit No.=0,Change to Monitor Mode=0'. An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'

Buttons at the bottom include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

When using the RS232C port on the CPM2C-CIF11

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Connecting Port Function Setting Switch on the CPU Unit

DIP Switch	Settings
SW1	OFF
SW2	ON

*Connect the conversion adapter to the communication port on the CPU.

3.15 Setting Example 15

■ Setting of GP-Pro EX


◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. A 'Change Device/PLC' link is visible.
- Text Data Mode:** Set to 3, with a 'Change' link.
- Communication Settings:**
 - SID Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200 (dropdown)
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note explains the selection criteria for RS232C.
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 16, with an 'Add Device' link.
 - Table with columns: No., Device Name, Settings, Add Indirect Device.
 - Row 1: No. 1, Device Name: PLC1, Settings: Series=C Link, Unit No.=0, Change to Monitor Mode=01.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The 'Individual Device Settings' dialog box for PLC1 contains the following settings:

- Series:** C Link, CV Link. A note states: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0 (dropdown)
- Operating Mode:** Change to Monitor Mode. A note states: 'Display cannot write data in the RUN mode.'
- Buttons: Default, OK (O), Cancel.

■ Setting of External Device

When using the RS422 port on the CPM2C-CIF11

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6650	0001(HEX)	Mode selection: HOST link
DM6651	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6653	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance connection (ON)"; in other cases, set it to "Without termination resistance connection (OFF)"

RS-485 Interface Toggle Switch

DIP Switch 2	Settings	Setup Description
SW1	OFF	4 wire communication
SW2	OFF	
SW3	OFF	RS control function of the CPU unit
SW4	ON	

Connecting Port Function Setting Switch on the CPU Unit

DIP Switch	Settings
SW1	OFF
SW2	ON

*Connect the conversion adapter to the communication port on the CPU.

3.16 Setting Example 16

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
 - RI / VCC: RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.'
 - A 'Default' button is present.
- Device-Specific Settings:**
 - Allowable Number of Devices/PLCs: 16. An 'Add Device' link is present.
 - A table lists the device:

No.	Device Name	Settings
1	PLC1	Series=C Link,Unit No.=0,Change to Monitor Mode=01
 - An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series: C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.: 0
- Operating Mode: Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'
- Buttons: Default, OK, Cancel.

■ Setting of External Device

When using RS232C on CQM1H - SCB41B

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6555	0001(HEX)	Mode selection: HOST link
DM6556	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6558	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Switch setting on the front unit

Switch	Settings
TERM	OFF
FIRE	Option

3.17 Setting Example 17

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].


The screenshot shows the 'Device/PLC 1' configuration window. It has a 'Summary' section with fields for Manufacturer (OMRON Corporation), Series (C/CV Series HOST Link), and Port (COM1). Below this is the 'Communication Settings' section with various options:

- SIQ Type: RS232C, RS422/485(2wire), RS422/485(4wire)
- Speed: 19200 (dropdown)
- Data Length: 7, 8
- Parity: NONE, EVEN, ODD
- Stop Bit: 1, 2
- Flow Control: NONE, ER(DTR/CTS), XON/XOFF
- Timeout: 3 (sec)
- Retry: 2
- Wait To Send: 0 (ms)

 There is a sub-section for 'RI / VCC' with radio buttons for RI and VCC, and a 'Default' button. Below that is the 'Device-Specific Settings' section, which includes 'Allowable Number of Devices/PLCs' set to 16 and a table with one entry:

No.	Device Name	Settings	Add Indirect Device
1	PLC1	Series=C Link,Unit No.=0,Change to Monitor Mode=01	<input type="button" value="+"/>

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series: C Link, CV Link
- A warning message: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.: 0 (dropdown)
- Operating Mode: Change to Monitor Mode
- A warning message: 'Display cannot write data in the RUN mode.'

 At the bottom, there are buttons for 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

When using RS422/485 port on CQM1H-SCB41B

Use the ladder tool etc. and set the value as below.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6550	0001(HEX)	Mode selection: HOST link
DM6551	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6553	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Switch setting on the front unit

Switch	Settings
TERM	ON
FIRE	4

When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance connection (ON)"; in other cases, set it to "Without termination resistance connection (OFF)"

3.18 Setting Example 18

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. An 'Add Device' link is available.
- Device List:** A table with columns 'No.', 'Device Name', and 'Settings'. It contains one entry: No. 1, Device Name 'PLC1', Settings 'Series=C Link,Unit No.=0,Change to Monitor Mode=01'. An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'

Buttons at the bottom include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6645	0001(HEX)	Mode selection: HOST link
DM6646	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6648	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.19 Setting Example 19

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. An 'Add Device' link is available.
- Device List:** A table with columns 'No.', 'Device Name', and 'Settings'. It contains one entry: No. 1, Device Name 'PLC1', Settings 'Series=C Link,Unit No.=0,Change to Monitor Mode=01'. An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings].

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'

Buttons at the bottom include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

◆ When using the port A

Register	Settings	Setup Description
DM6555	0001(HEX)	Mode selection: HOST link
DM6556	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6558	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

◆ When using the port B

Register	Settings	Setup Description
DM6550	0001(HEX)	Mode selection: HOST link
DM6551	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6553	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

3.20 Setting Example 20


■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes fields for Manufacturer (OMRON Corporation), Series (C/CV Series HOST Link), and Port (COM1). The 'Text Data Mode' is set to 3. The 'Communication Settings' section includes radio buttons for SID Type (RS232C, RS422/485(2wire), RS422/485(4wire)), a Speed dropdown (19200), Data Length (7, 8), Parity (NONE, EVEN, ODD), Stop Bit (1, 2), Flow Control (NONE, ER(DTR/CTS), XON/XOFF), Timeout (3 sec), Retry (2), and Wait To Send (0 ms). There are also radio buttons for RI/VCC (RI, VCC) and a 'Default' button. The 'Device-Specific Settings' section shows 'Allowable Number of Devices/PLCs' as 16, with an 'Add Device' button. Below is a table with one entry: No. 1, Device Name PLC1, and Settings Series=C Link, Unit No.=0, Change to Monitor Mode=01. An 'Add Indirect Device' button is also present.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for PLC1. It has a title bar with a close button. The 'Series' section has radio buttons for C Link (selected) and CV Link. Below this is a warning: 'Please reconfirm all of address settings that you are using if you have changed the series.' The 'Unit No.' is a dropdown menu set to 0. The 'Operating Mode' section has a checked checkbox for 'Change to Monitor Mode' and a note: 'Display cannot write data in the RUN mode.' At the bottom are buttons for 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

Use the ladder tool etc. and set the value as below.

Set SW5 to OFF.

Please refer to the manual of the External Device for more details on settings.

Register	Settings	Setup Description
DM6555	0001(HEX)	Mode selection: HOST link
DM6556	0304(HEX)	19200bps, 7-bit data length, 2 stop bits, Even parity
DM6558	0000(HEX)	HOST link, Unit No.: 0

Write the data in each register and reset the External Device.

Set the DIP switch on the communication board as below.

- SW1: ON
- SW2: When the External Device is located at the end of the communication connection due to system configuration, set the switch to "With termination resistance (ON)"; in other cases, set it to "Without termination resistance (OFF)".

3.21 Setting Example 21

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes fields for Manufacturer (OMRON Corporation), Series (C/CV Series HOST Link), and Port (COM1). The 'Text Data Mode' is set to 3. The 'Communication Settings' section includes radio buttons for SI0 Type (RS232C selected), Speed (19200), Data Length (7), Parity (EVEN), Stop Bit (2), Flow Control (ER(DTR/CTS) selected), Timeout (3 sec), Retry (2), and Wait To Send (0 ms). There are also options for RI/VCC (RI selected) and a 'Default' button. The 'Device-Specific Settings' section shows 'Allowable Number of Devices/PLCs' as 16 and a table with one device named 'PLC1' with settings 'Series=CV Link,Unit No.=0,Change to Monitor Mode=t'. An 'Add Indirect Device' button is also present.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It has radio buttons for Series (C Link and CV Link selected). A warning message states: 'Please reconfirm all of address settings that you are using if you have changed the series.' The 'Unit No.' is set to 0. The 'Operating Mode' checkbox 'Change to Monitor Mode' is checked, with a note: 'Display cannot write data in the RUN mode.' There are 'Default', 'OK (O)', and 'Cancel' buttons.

■ Setting of External Device

When using the port 1 (RS232C)

Rotary Switch ^{*1}	Settings	Setup Description
SW3	0	Unit No.: 0
SW4	0	

*1 SW1 and SW2 settings have no relations with the communication of the Display.

	Settings	Setup Description
5V Output Setting SW	Lower	Not supply

	Settings	Setup Description
Termination resistance SW	Lower	Termination resistance: Without

DIP Switch	Settings	Setup Description
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity ^{*1}
SW2	ON	Port 1: Always CTS signal ON
SW3	ON	Port 2: Always CTS signal ON
SW4	OFF	Reserved: Always OFF
SW5	OFF	Wrap communication test: Execute normal operation.
SW6	OFF	Unused

*1 Use the ladder software etc. to change the transmission speed to 19200bps.

3.22 Setting Example 22

■ Setting of GP-Pro EX


◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. It is divided into several sections:

- Summary:** Manufacturer: OMRON Corporation, Series: C/CV Series HOST Link, Port: COM1. Text Data Mode: 3. A 'Change Device/PLC' link is visible.
- Communication Settings:**
 - SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
 - Speed: 19200
 - Data Length: 7, 8
 - Parity: NONE, EVEN, ODD
 - Stop Bit: 1, 2
 - Flow Control: NONE, ER(DTR/CTS), XON/XOFF
 - Timeout: 3 (sec)
 - Retry: 2
 - Wait To Send: 0 (ms)
- RI / VCC:** RI, VCC. A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.' A 'Default' button is present.
- Device-Specific Settings:** Allowable Number of Devices/PLCs: 16. An 'Add Device' link is available.
- Device List:** A table with columns 'No.', 'Device Name', and 'Settings'. The first entry is '1', 'PLC1', and 'Series=CV Link,Unit No.=0,Change to Monitor Mode=C'. An 'Add Indirect Device' button is on the right.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It contains the following settings:

- Series:** C Link, CV Link. A note says: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.:** 0
- Operating Mode:** Change to Monitor Mode. A note says: 'Display cannot write data in the RUN mode.'

Buttons at the bottom include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

When using the port 2 (RS232C)

Rotary Switch ^{*1}	Settings	Setup Description
SW3	0	Unit No.: 0
SW4	0	

*1 SW1 and SW2 settings have no relations with the communication of the Display.

	Settings	Setup Description
5V Output Setting SW	Lower	Not supply

	Settings	Setup Description
Channel toggle SW	Lower	RS232C

	Settings	Setup Description
Termination resistance SW	Lower	Termination resistance: Without

DIP Switch	Settings	Setup Description
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity ^{*1}
SW2	ON	Port 1: Always CTS signal ON
SW3	ON	Port 2: Always CTS signal ON
SW4	OFF	Reserved: Always OFF
SW5	OFF	Wrap communication test: Execute normal operation.
SW6	OFF	Unused

*1 Use the ladder software etc. to change the transmission speed to 19200bps.

3.23 Setting Example 23

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes:

- Manufacturer: OMRON Corporation
- Series: C/CV Series HOST Link
- Port: COM1
- Text Data Mode: 3

 The 'Communication Settings' section includes:


- SID Type: RS422/485(4wire) (selected)
- Speed: 19200
- Data Length: 7
- Parity: EVEN
- Stop Bit: 2
- Flow Control: ER(DTR/CTS)
- Timeout: 3 (sec)
- Retry: 2
- Wait To Send: 0 (ms)
- RI / VCC: RI (selected)

 A note explains that for RS232C, RI or VCC (5V Power Supply) can be selected. A 'Default' button is present. The 'Device-Specific Settings' section shows 'Allowable Number of Devices/PLCs' as 16 and a table with one entry:

No.	Device Name	Settings
1	PLC1	Series=CV Link,Unit No.=0,Change to Monitor Mode=t

 An 'Add Device' button is also visible.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The 'Individual Device Settings' dialog box for 'PLC1' shows:

- Series: CV Link (selected)
- Unit No.: 0
- Operating Mode: Change to Monitor Mode (checked)

 A note states: 'Please reconfirm all of address settings that you are using if you have changed the series.' and 'Display cannot write data in the RUN mode.' Buttons for 'Default', 'OK', and 'Cancel' are at the bottom.

■ Setting of External Device

When using the port 2 (RS422)

Rotary Switch ^{*1}	Settings	Setup Description
SW3	0	Unit No.: 0
SW4	0	

*1 SW1 and SW2 settings have no relations with the communication of the Display.

	Settings	Setup Description
5V Output Setting SW	Lower	Not supply

	Settings	Setup Description
Channel toggle SW	Upper	RS422

	Settings	Setup Description
Termination resistance SW	Upper	Termination resistance: With ^{*1}

*1 Set to ON the termination resistance selection switch of only the unit which is located at the end of the system.

DIP Switch	Settings	Setup Description
SW1	OFF	9600bps, 7-bit data length, 2 stop bits, Even parity ^{*1}
SW2	ON	Port 1: Always CTS signal ON
SW3	ON	Port 2: Always CTS signal ON
SW4	OFF	Reserved: Always OFF
SW5	OFF	Wrap communication test: Execute normal operation.
SW6	OFF	Unused

*1 Use the ladder software etc. to change the transmission speed to 19200bps.

3.24 Setting Example 24

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes:

- Manufacturer: OMRON Corporation
- Series: C/CV Series HOST Link
- Port: COM1
- Text Data Mode: 3

 The 'Communication Settings' section includes:

- SIO Type: RS232C, RS422/485(2wire), RS422/485(4wire)
- Speed: 19200
- Data Length: 7, 8
- Parity: NONE, EVEN, ODD
- Stop Bit: 1, 2
- Flow Control: NONE, ER(DTR/CTS), XON/XOFF
- Timeout: 3 (sec)
- Retry: 2
- Wait To Send: 0 (ms)
- RI / VCC: RI, VCC

 A note states: 'In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.'

 The 'Device-Specific Settings' section shows:

- Allowable Number of Devices/PLCs: 16
- A table with one entry: No. 1, Device Name: PLC1, Settings: Series=CV Link, Unit No.=0, Change to Monitor Mode=C

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The 'Individual Device Settings' dialog box for 'PLC1' shows:

- Series: C Link, CV Link
- Text: 'Please reconfirm all of address settings that you are using if you have changed the series.'
- Unit No.: 0
- Operating Mode: Change to Monitor Mode
- Text: 'Display cannot write data in the RUN mode.'

 Buttons include 'Default', 'OK (O)', and 'Cancel'.

■ Setting of External Device

When connecting the RS232C port

	Settings	Setup Description
Communication Setting Toggle SW	Upper	RS232C SIO Type

DIP Switch ^{*1}	Settings	Setup Description
SW4	OFF	19200bps, 7-bit data length, 2 stop bits, Even parity, Unit No.: 0
SW6	OFF	Termination resistance: Without

*1 Other DIP SW settings have no relations with the communication with GP.

3.25 Setting Example 25

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

The screenshot shows the 'Device/PLC 1' configuration window. The 'Summary' section includes fields for Manufacturer (OMRON Corporation), Series (C/CV Series HOST Link), and Port (COM1). The 'Text Data Mode' is set to 3. The 'Communication Settings' section includes radio buttons for RS232C, RS422/485(2wire), and RS422/485(4wire) (selected). Other settings include Speed (19200), Data Length (7), Parity (EVEN), Stop Bit (2), Flow Control (ER(DTR/CTS)), Timeout (3 sec), Retry (2), and Wait To Send (0 ms). There are also options for RI/VCC (RI selected) and a 'Default' button. The 'Device-Specific Settings' section shows 'Allowable Number of Devices/PLCs' as 16 and a table with one device named 'PLC1' with settings 'Series=CV Link,Unit No.=0,Change to Monitor Mode=t'. An 'Add Indirect Device' button is also present.

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

The screenshot shows the 'Individual Device Settings' dialog box for 'PLC1'. It has radio buttons for 'C Link' and 'CV Link' (selected). A warning message states: 'Please reconfirm all of address settings that you are using if you have changed the series.' The 'Unit No.' is set to 0. The 'Operating Mode' has a checked box for 'Change to Monitor Mode' with a note: 'Display cannot write data in the RUN mode.' There are 'Default', 'OK (O)', and 'Cancel' buttons.

■ Setting of External Device

When connecting the RS422 port

	Settings	Setup Description
Communication Setting Toggle SW	Lower	RS422 SIO Type

DIP Switch ^{*1}	Settings	Setup Description
SW4	OFF	19200bps, 7-bit data length, 2 stop bits, Even parity, Unit No.: 0
SW6	ON	Termination resistance: With ^{*2}

*1 Other DIP SW settings have no relations with the communication with GP.

*2 Set to ON the termination resistance selection switch of only the unit which is located at the end of the system.

4 Setup Items

Set communication settings of the Display with GP-Pro EX or in offline mode of the Display.

The setting of each parameter must be identical to that of External Device.

☞ "3 Example of Communication Setting" (page 16)

4.1 Setup Items in GP-Pro EX

■ Communication Settings

To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].

Device/PLC 1

Summary [Change Device/PLC](#)

Manufacturer Series Port

Text Data Mode [Change](#)

Communication Settings

SIO Type RS232C RS422/485(2wire) RS422/485(4wire)

Speed

Data Length 7 8

Parity NONE EVEN ODD

Stop Bit 1 2

Flow Control NONE ER(DTR/CTS) XON/XOFF

Timeout (sec)

Retry

Wait To Send (ms)

RI / VCC RI VCC

In the case of RS232C, you can select the 9th pin to RI (Input) or VCC (5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.

Device-Specific Settings

Allowable Number of Devices/PLCs [Add Device](#)


No.	Device Name	Settings
1	PLC1	Series=C Link,Unit No.=0,Change to Monitor Mode=0!

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device.
Speed	Select speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.

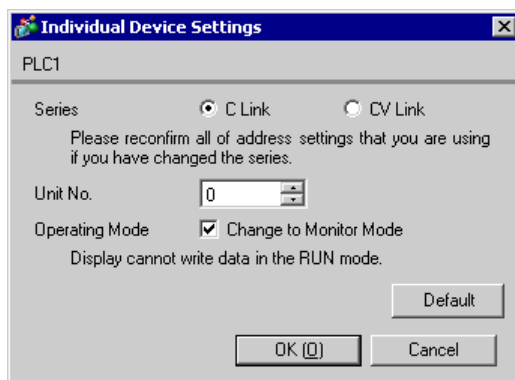
continued to next page

Setup Items	Setup Description
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

■ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] .

To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device..



Setup Items	Setup Description
Series	Select the model of the External Device to be connected.
Unit No.	Set the unit No. of the External Device.
Operating Mode	Set the change to the monitor mode whether enable or disable.

IMPORTANT

- The External Device does not receive write from the Display in operation mode. When the "Operating Mode" is enabled, the External Device will be changed to the monitor mode at startup, which allows you to write to the External Device.

4.2 Setup Items in Offline Mode

- NOTE** • Refer to the Maintenance/Troubleshooting guide for information on how to enter offline mode or about the operation.

Cf. Maintenance/Troubleshooting Guide "Offline Mode"

- The number of the setup items to be displayed for 1 page in the offline mode depends on the Display in use. Please refer to the Reference manual for details.

■ Communication Settings

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings] in the offline mode. Touch the External Device you want to set from the displayed list, and touch [Communication Settings].

Comm.	Device	Option		
C/ CV Series HOST Link			[COM1]	Page 1/1
SIO Type		RS232C		
Speed		19200		
Data Length		<input checked="" type="radio"/> 7 <input type="radio"/> 8		
Parity		<input type="radio"/> NONE <input checked="" type="radio"/> EVEN <input type="radio"/> ODD		
Stop Bit		<input type="radio"/> 1 <input checked="" type="radio"/> 2		
Flow Control		ER(DTR/CTS)		
Timeout(s)		3		
Retry		2		
Wait To Send(ms)		0		
	Exit		Back	2005/09/02 12:44:02

Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device. IMPORTANT To make the communication settings correctly, confirm the serial interface specifications of Display unit for [SIO Type]. We cannot guarantee the operation if a communication type that the serial interface does not support is specified. For details concerning the serial interface specifications, refer to the manual for Display unit.
Speed	Select speed between the External Device and the Display.
Data Length	Select data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Select the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.
Retry	In case of no response from the External Device, use an integer from 0 to 255 to enter how many times the Display retransmits the command.

Setup Items	Setup Description
Wait To Send	Use an integer from 0 to 255 to enter standby time (ms) for the Display from receiving packets to transmitting next commands.

■ Device Setting

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings]. Touch the External Device you want to set from the displayed list, and touch [Device Settings].

Comm.	Device	Option		
C/CV Series HOST Link		[COM1]	Page 1/1	
Device/PLC Name [PLC1] ▼				
Series		C Link		
Unit No.		0 ▼ ▲		
Monitor Mode		<input type="radio"/> Disable <input checked="" type="radio"/> Enable		
Exit		Back		2005/09/02 12:44:04

Setup Items	Setup Description
Device/PLC Name	Select the External Device to set. Device/PLC name is a title of the External Device set with GP-Pro EX. (Initial value [PLC1])
Series	Select the model of the External Device to be connected.
Unit No.	Set the unit No. of the External Device.
Monitor Mode	Set the change to the monitor mode whether enable or disable.

■ Option

To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings]. Touch the External Device you want to set from the displayed list, and touch [Option].

Comm.	Device	Option		
C/CV Series HOST Link		[COM1]	Page 1/1	
RI / VCC <input checked="" type="radio"/> RI <input type="radio"/> VCC In the case of RS232C, you can select the 9th pin to RI(Input) or VCC(5V Power Supply). If you use the Digital's RS232C Isolation Unit, please select it to VCC.				
		Exit	Back	2005/09/02 12:44:06

Setup Items	Setup Description
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

NOTE

- GP-4100 series, GP-4*01TM, GP-Rear Module, LT-4*01TM and LT-Rear Module do not have the [Option] setting in the offline mode.

5 Cable Diagram

The cable diagram shown below may be different from the cable diagram recommended by OMRON Corporation. Please be assured there is no operational problem in applying the cable diagram shown in this manual.

- The FG pin of the main body of the External Device must be D-class grounded. Please refer to the manual of the External Device for more details.
- SG and FG are connected inside the Display. When connecting SG to the External Device, design the system not to form short-circuit loop.
- Connect the isolation unit, when communication is not stabilized under the influence of a noise etc..

Cable Diagram 1

Display	Cable		Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	1A	RS232C cable by Pro-face CA3-CBL232/5M-01	
	1B	User-created cable	Cable length: 15m or less
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	1C	User-created cable	Cable length: 15m or less

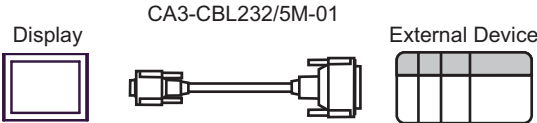
*1 All GP4000 models except GP-4100 Series and GP-4203T

*2 Except SP-5B00

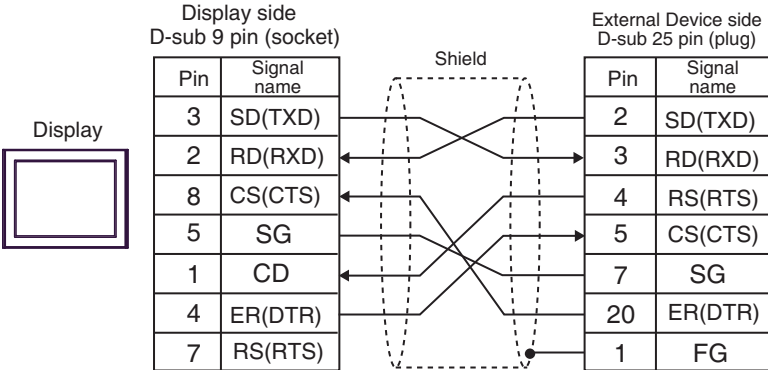
*3 Only the COM port which can communicate by RS-232C can be used.

 "■ IPC COM Port" (page 12)

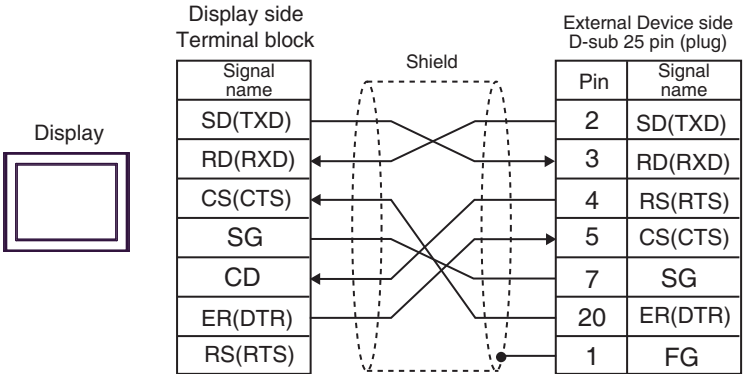
1A)



1B)



1C)



Cable Diagram 2

Display	Cable		Remarks
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	2A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	2B	User-created cable	
GP3000* ⁴ (COM2)	2C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	2D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	2E	User-created cable	The cable length must be 500m or less.
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	2F	RS-422 terminal block conversion adapter by Pro-face PFZXCBADTM1* ⁹ + User-created cable	The cable length must be 500m or less.
	2B	User-created cable	
PE-4000B* ¹⁰ PS5000* ¹⁰ PS6000 (Optional Interface)* ¹⁰	2G	User-created cable	The cable length must be 500m or less.

*1 All GP3000 models except AGP-3302B

*2 Except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)

"■ IPC COM Port" (page 12)

*4 All GP3000 models except GP-3200 series and AGP-3302B

*5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T

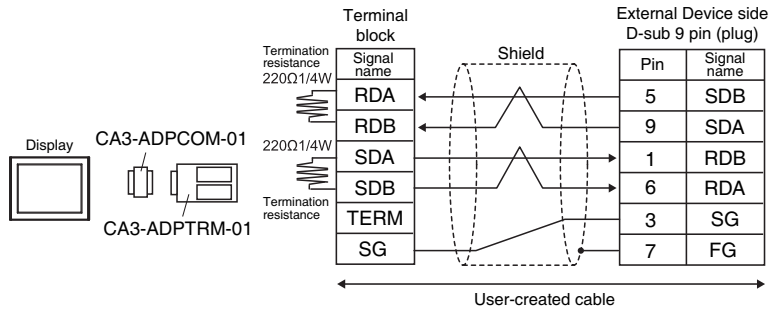
*6 Except SP-5B00

*7 Except ST-6200

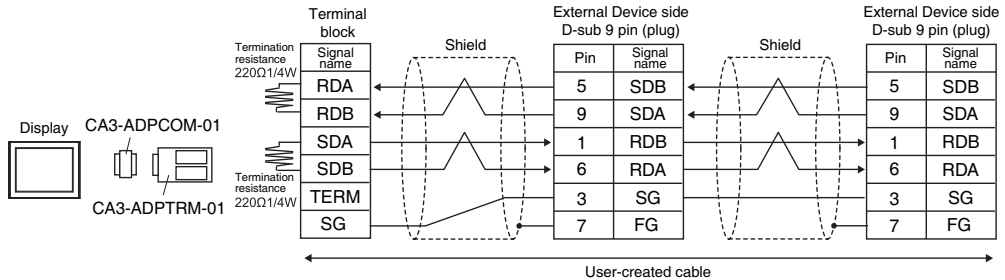
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 2A.
- *10 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

2A)

- 1:1 Connection



- 1:n Connection

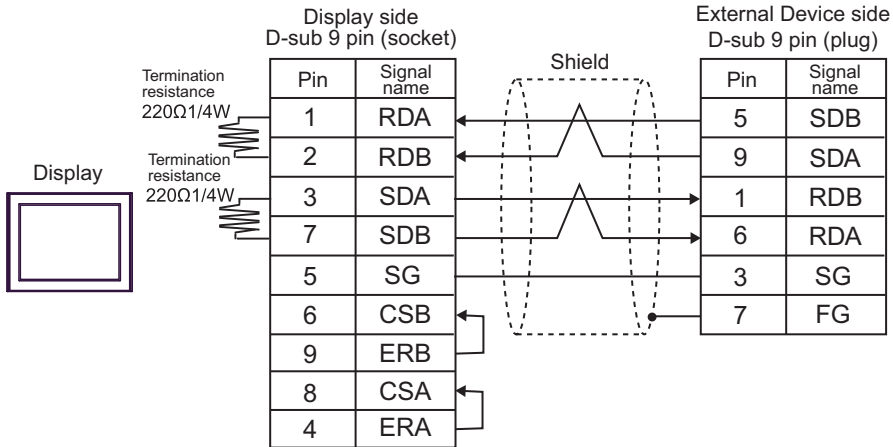


NOTE

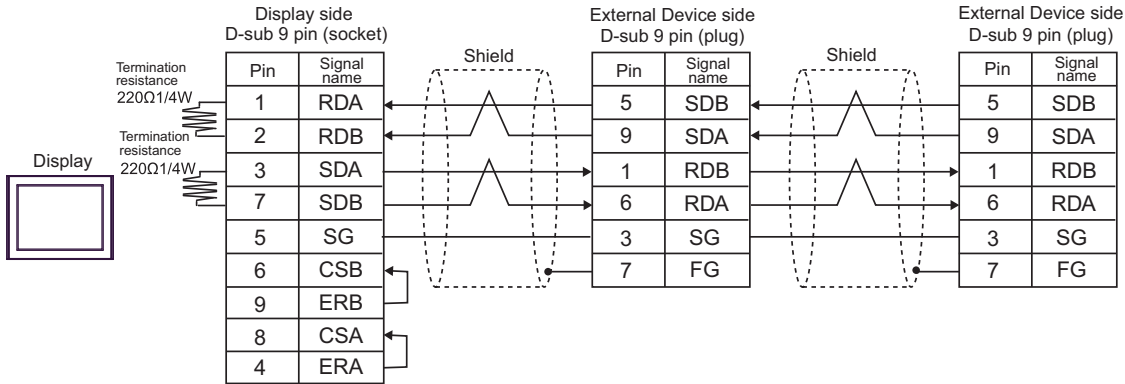
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

2B)

- 1:1 Connection



- 1:n Connection

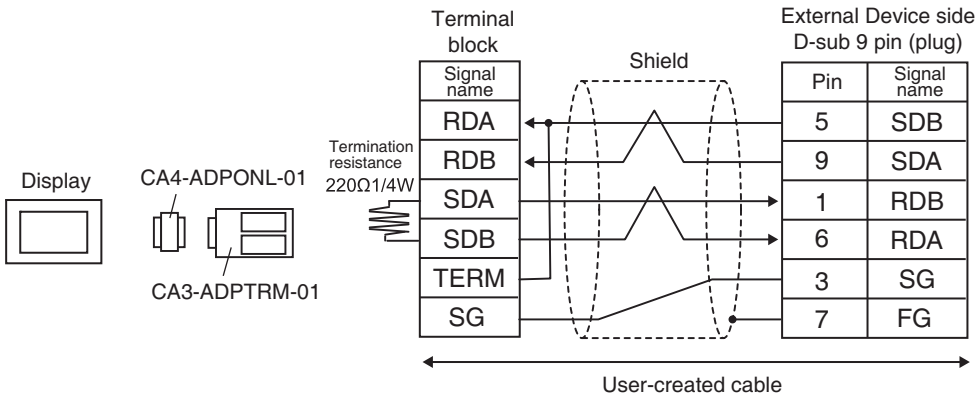


NOTE

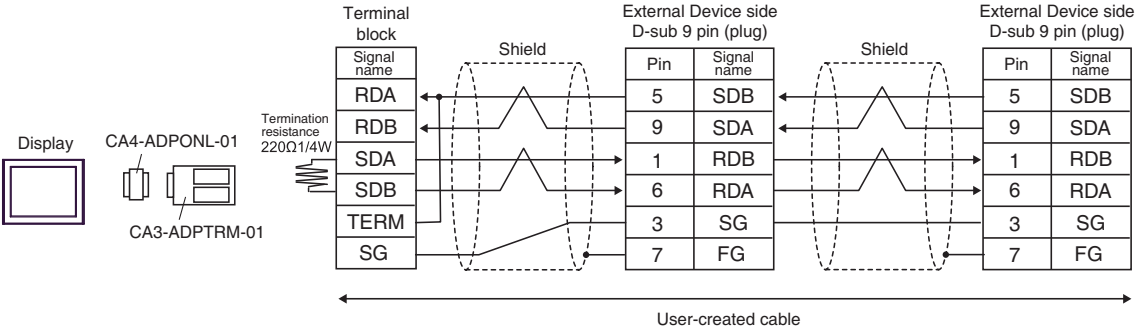
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

2C)

- 1:1 Connection

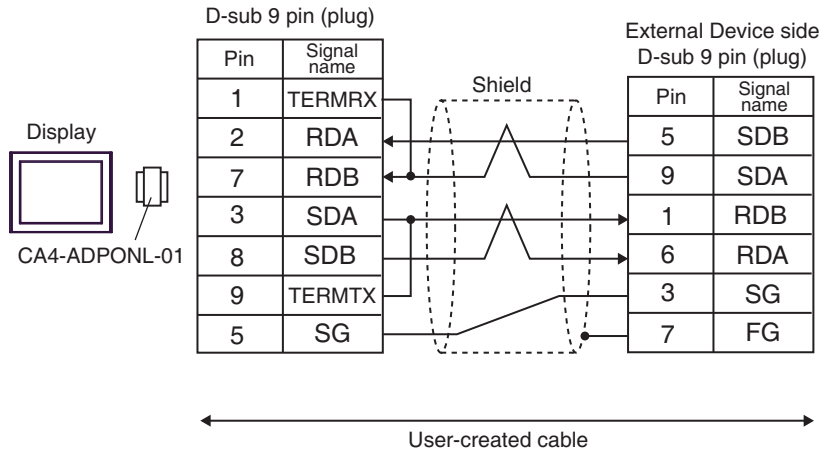


- 1:n Connection

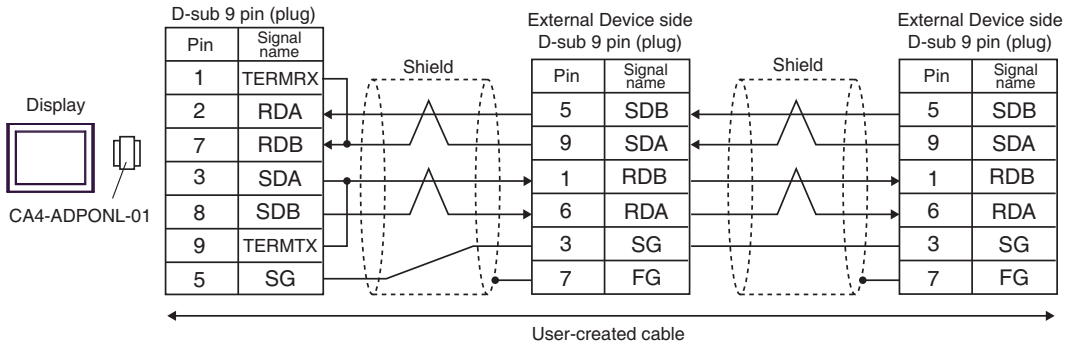


2D)

- 1:1 Connection

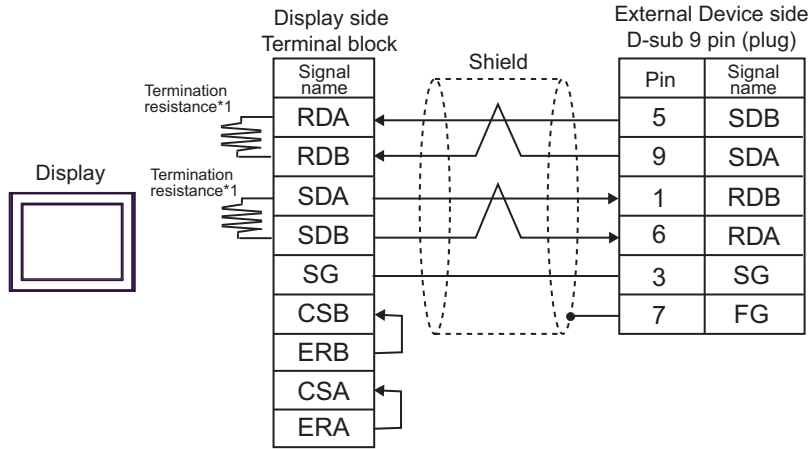


- 1:n Connection

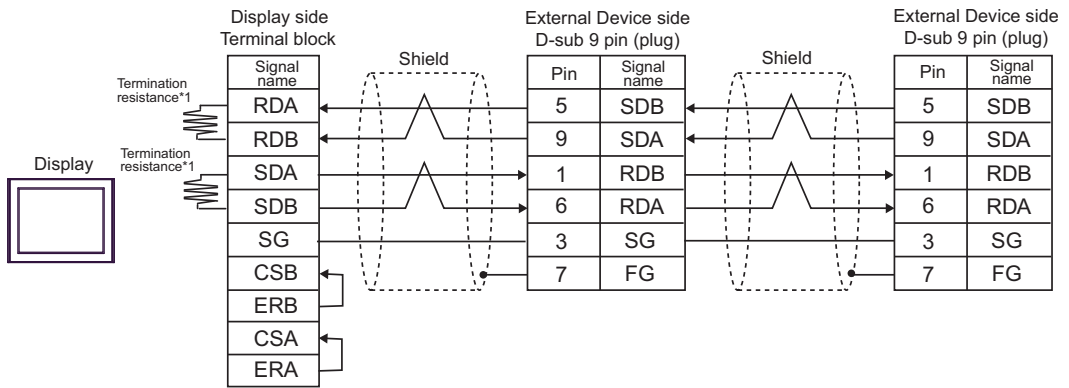


2E)

- 1:1 Connection



- 1:n Connection

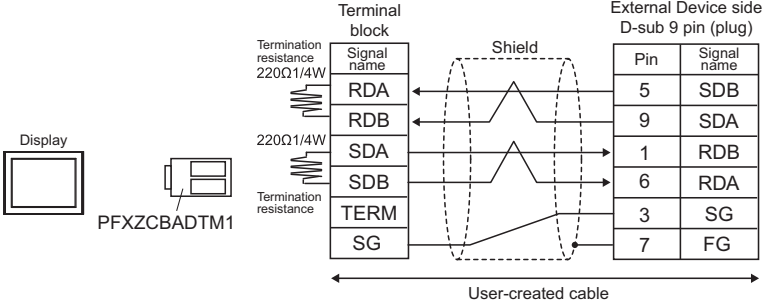


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

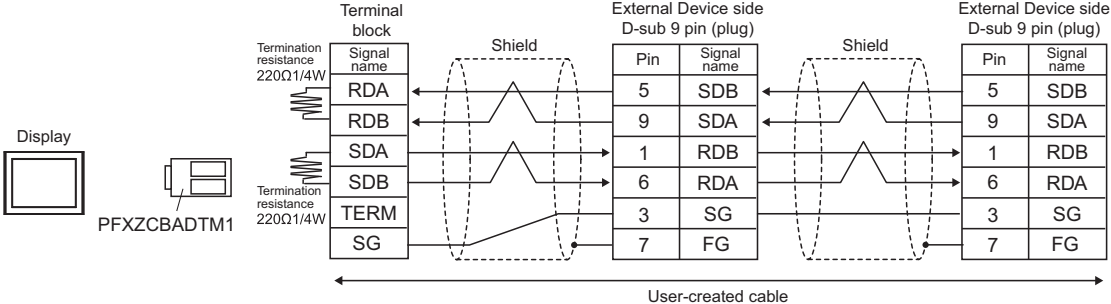
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

2F)

- 1:1 Connection

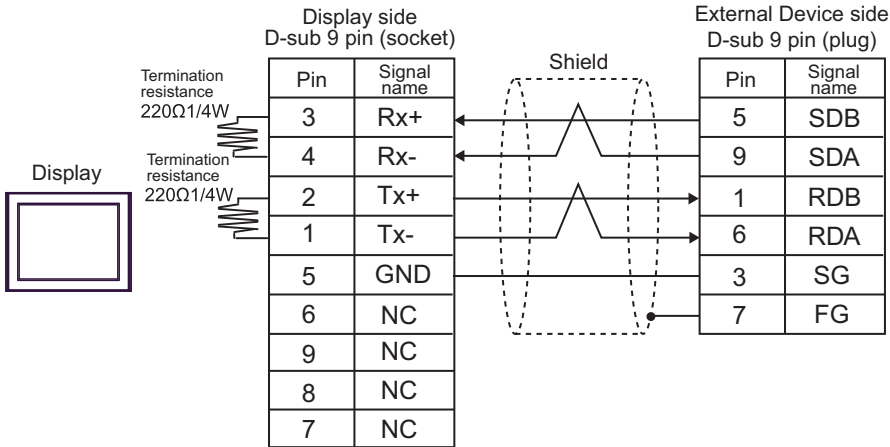


- 1:n Connection

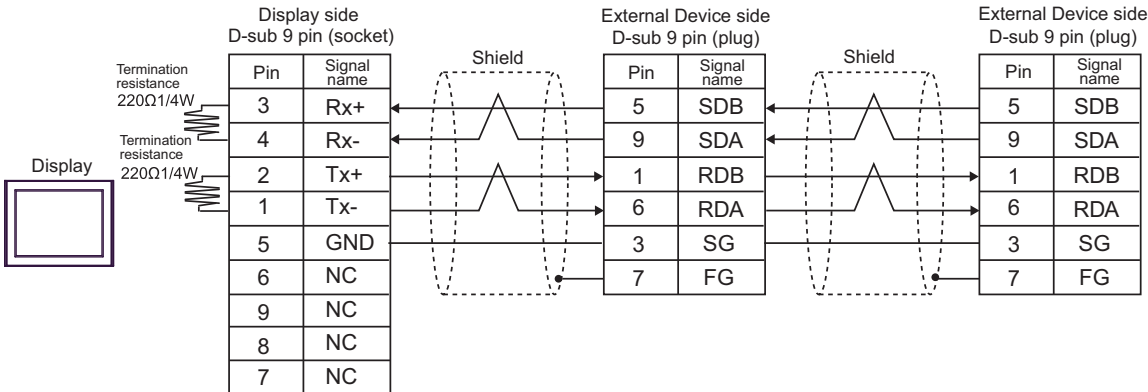


2G)

- 1:1 Connection



- 1:n Connection



Cable Diagram 3

Display	Cable		Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	3A	OMRON SYSMAC link cable by Pro-face CA3-CBLSYS-01	
	3B	User-created cable	The cable length must be 15m or less.
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	3C	User-created cable	The cable length must be 15m or less.
LT-4*01TM (COM1) LT-Rear Module (COM1)	3D	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJ21	The cable length must be 5m or less.

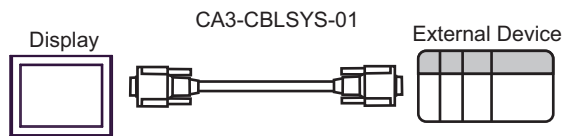
*1 All GP4000 models except GP-4100 Series and GP-4203T

*2 Except SP-5B00

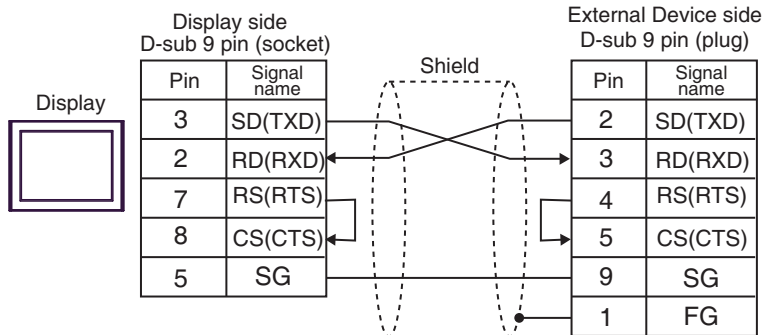
*3 Only the COM port which can communicate by RS-232C can be used.

"■ IPC COM Port" (page 12)

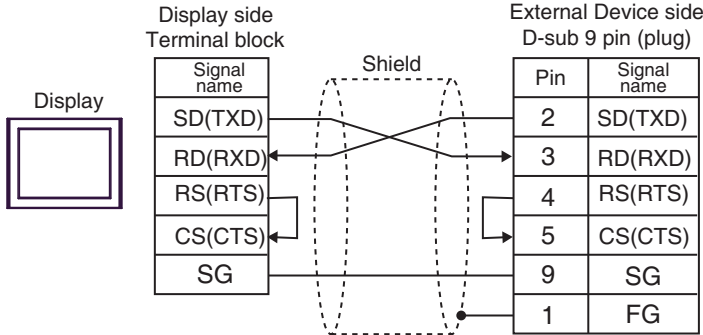
3A)



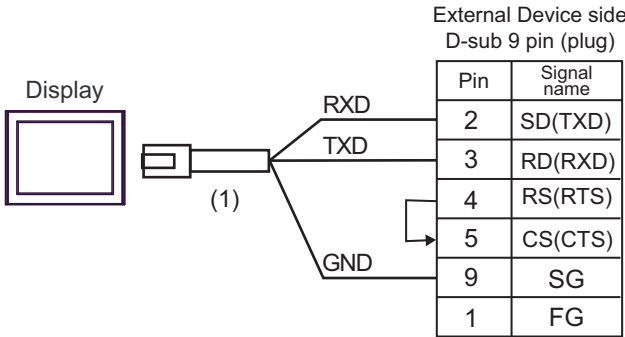
3B)



3C)




3D)



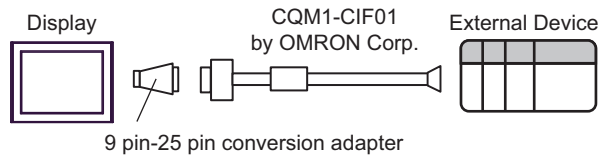
Number	Name	Notes
(1)	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJ21	

Cable Diagram 4

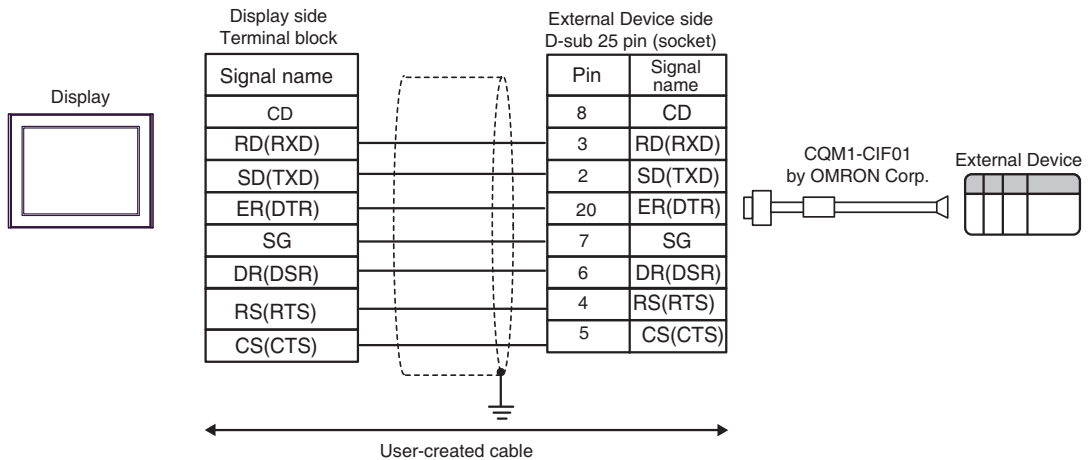
Display	Cable	Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	4A	Isolation cable by OMRON Corporation CQM1-CIF01 Commercial 9 pin-25 pin conversion adapter is required.
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	4B	User-created cable + Isolation cable by OMRON Corporation CQM1-CIF01

- *1 All GP4000 models except GP-4100 Series and GP-4203T
- *2 Except SP-5B00
- *3 Only the COM port which can communicate by RS-232C can be used.
 "■ IPC COM Port" (page 12)

4A)



4B)



Cable Diagram 5

Display	Cable		Remarks
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	5A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	5B	User-created cable	
GP3000* ⁴ (COM2)	5C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	5D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	5E	User-created cable	The cable length must be 500m or less.
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	5F	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	The cable length must be 500m or less.
	5B	User-created cable	
PE-4000B* ¹⁰ PS5000* ¹⁰ PS6000 (Optional Interface)* ¹⁰	5G	User-created cable	The cable length must be 500m or less.

*1 All GP3000 models except AGP-3302B

*2 Except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)

 "■ IPC COM Port" (page 12)

*4 All GP3000 models except GP-3200 series and AGP-3302B

*5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T

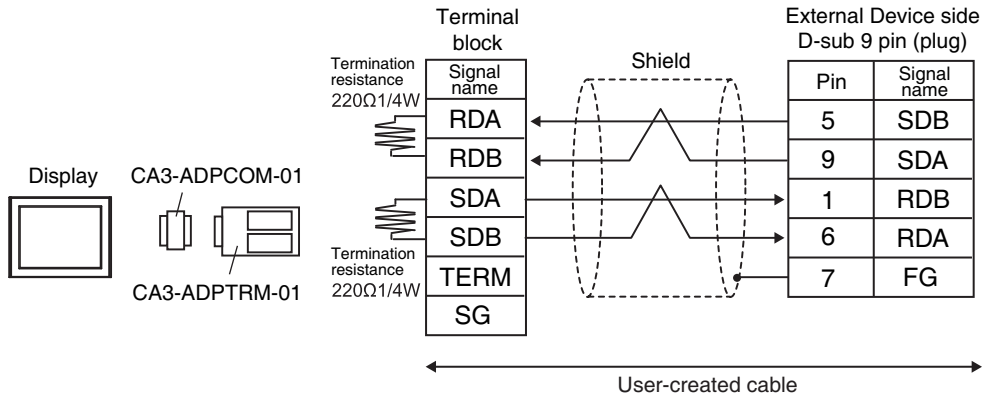
*6 Except SP-5B00

*7 Except ST-6200

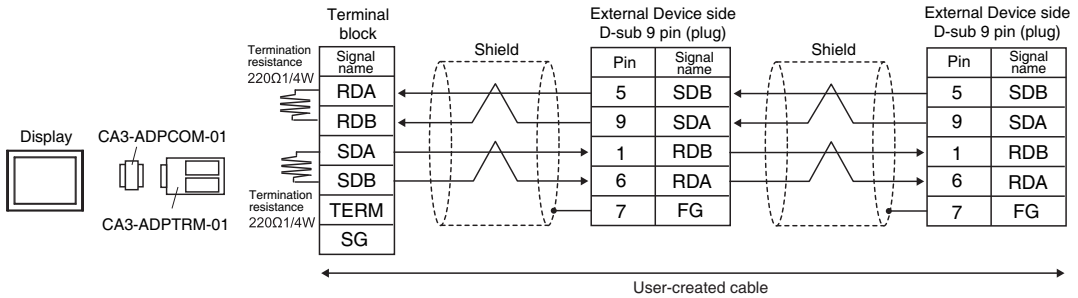
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 5A.
- *10 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 ☞ "■ IPC COM Port" (page 12)

5A)

- 1:1 Connection



- 1:n Connection

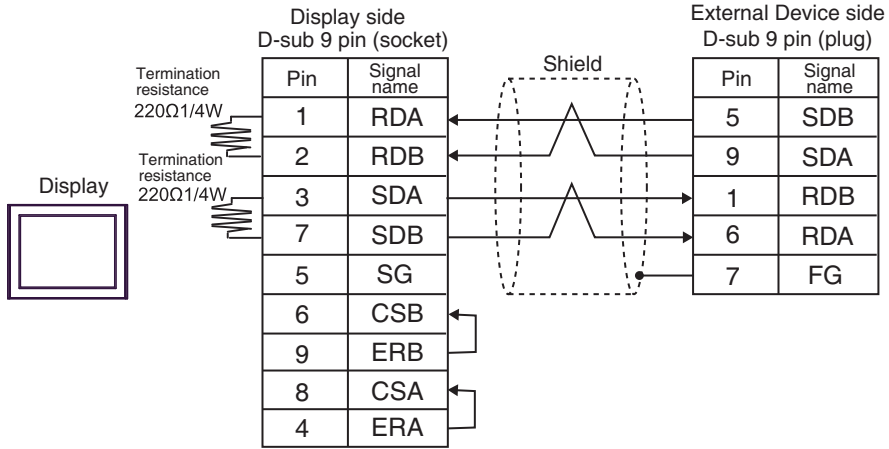


NOTE

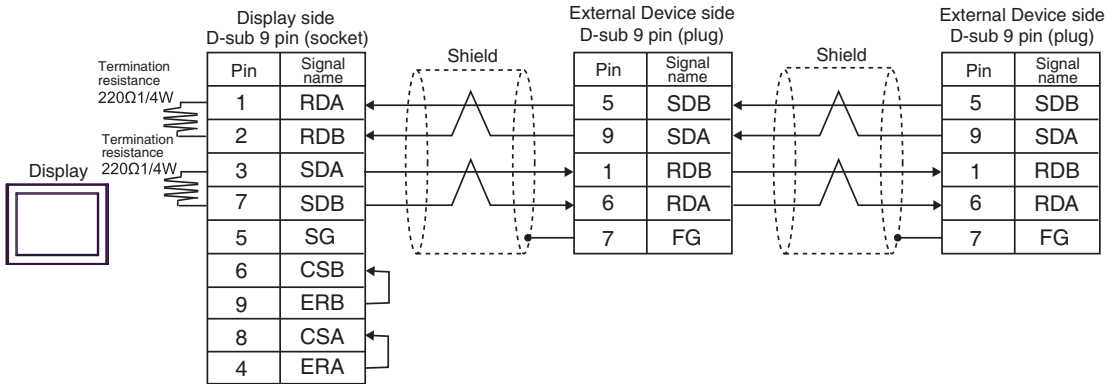
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

5B)

- 1:1 Connection



- 1:n Connection

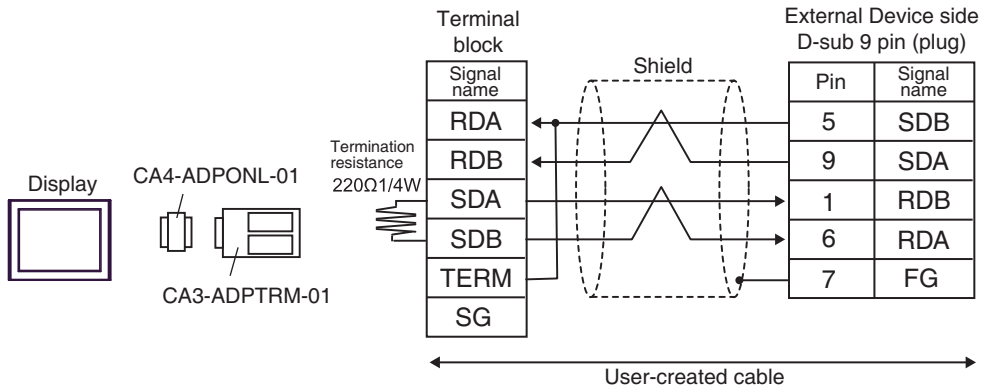


NOTE

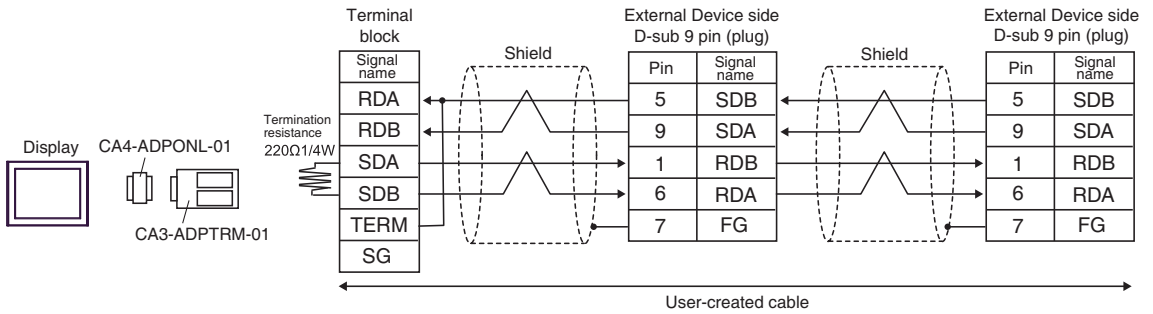
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

5C)

- 1:1 Connection

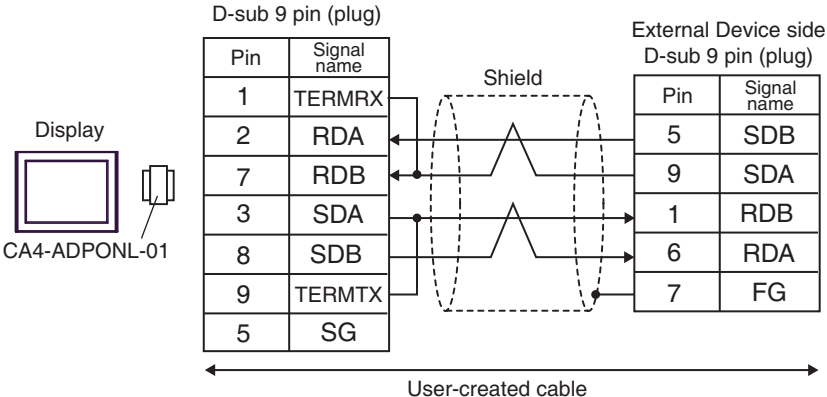


- 1:n Connection

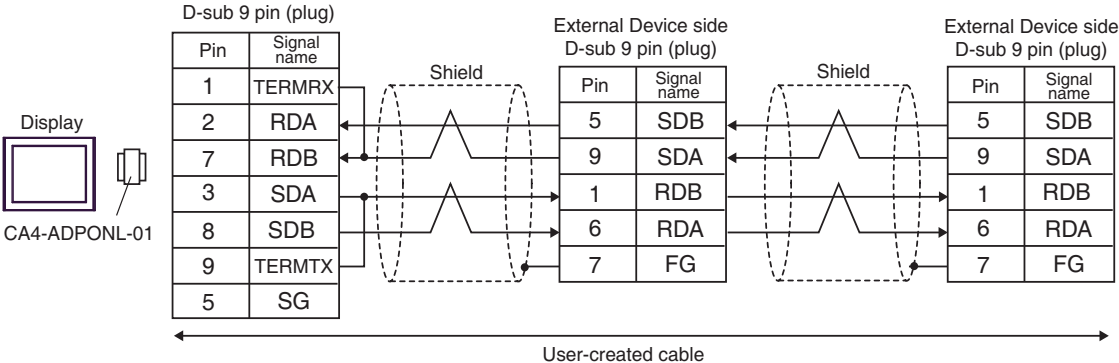


5D)

- 1:1 Connection

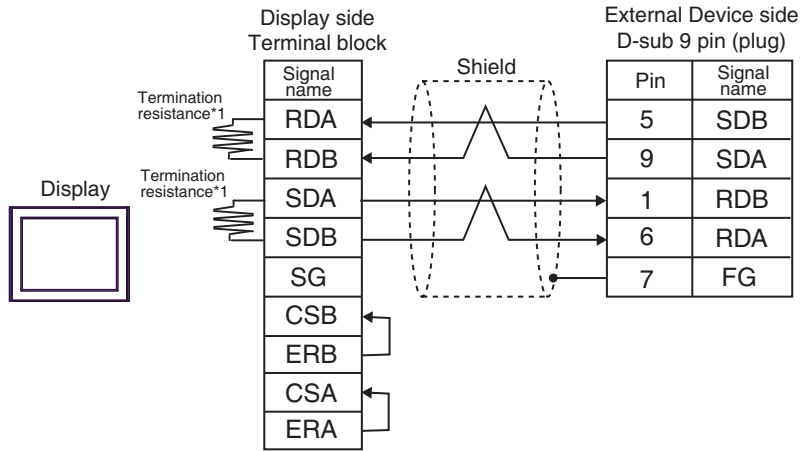


- 1:n Connection

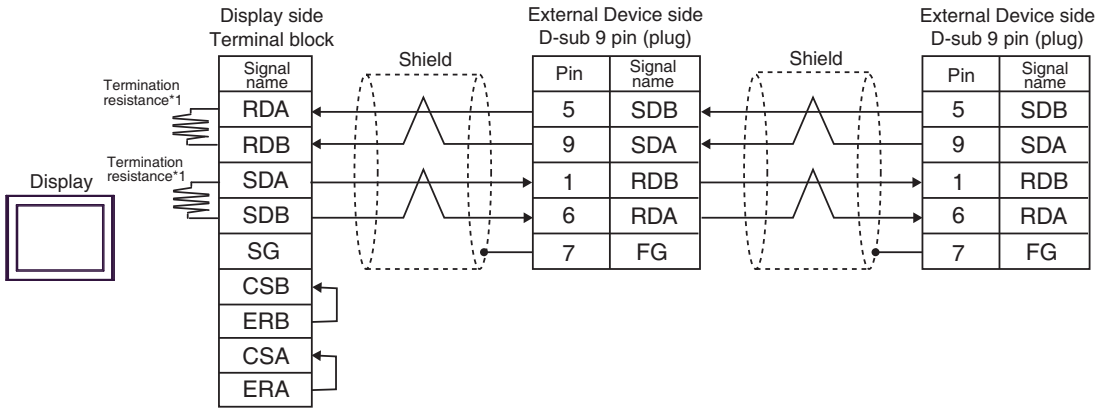


5E)

- 1:1 Connection



- 1:n Connection

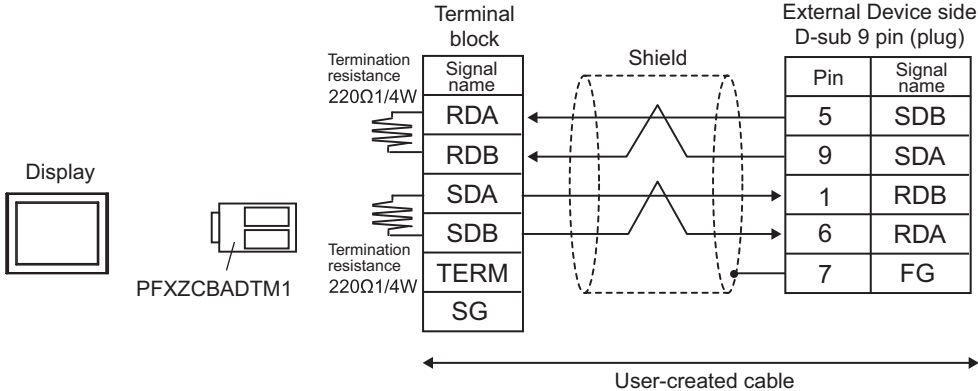


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

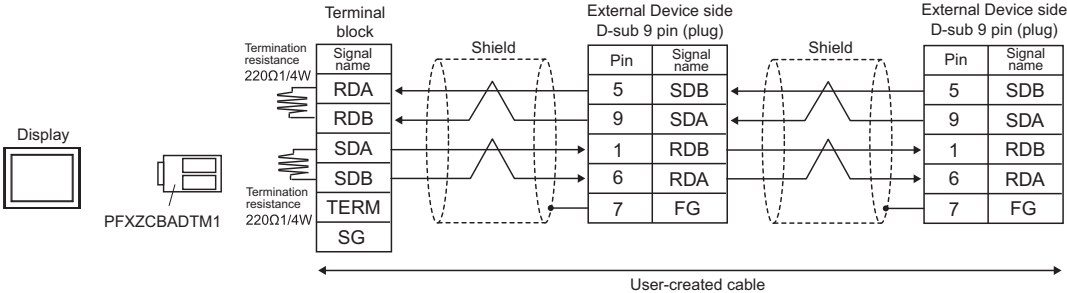
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

5F)

- 1:1 Connection

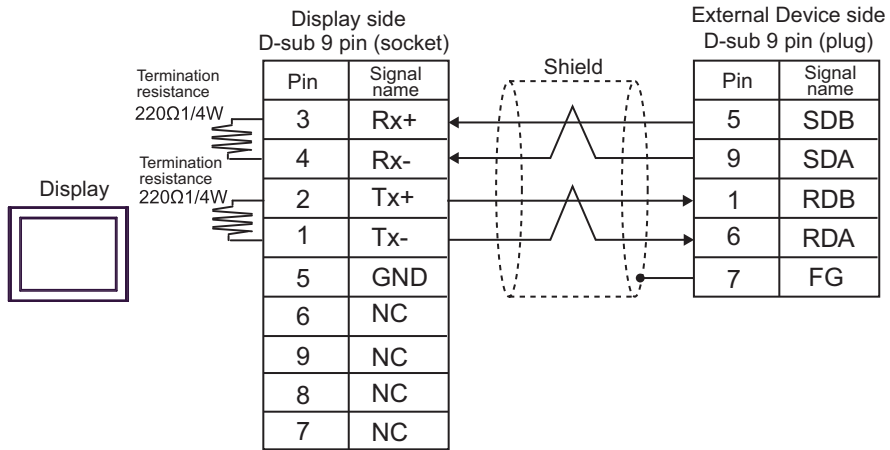


- 1:n Connection

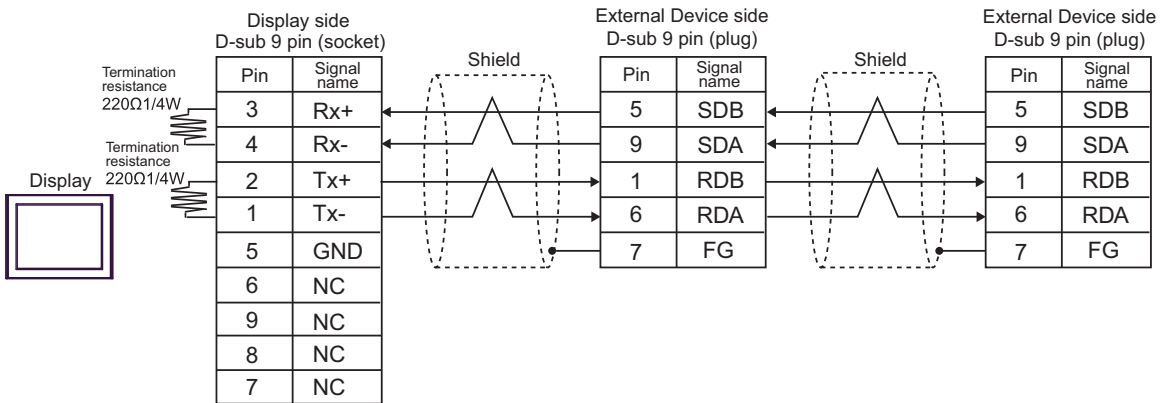


5G)

- 1:1 Connection



- 1:n Connection



Cable Diagram 6

Display	Cable		Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	6A	User-created cable	The cable length must be 15m or less.
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	6B	User-created cable	The cable length must be 15m or less.
LT-4*01TM (COM1) LT-Rear Module (COM1)	6C	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJ21	The cable length must be 5m or less.

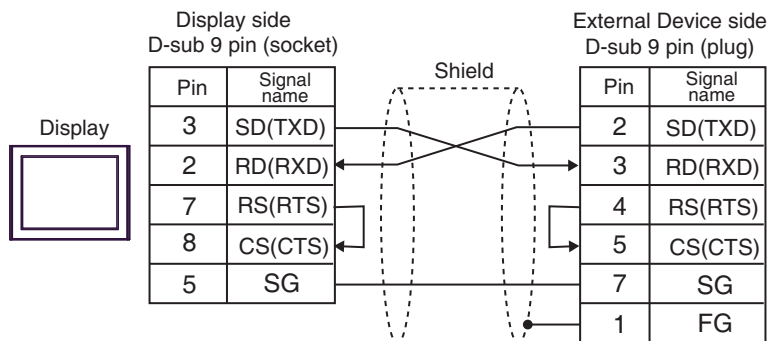
*1 All GP4000 models except GP-4100 Series and GP-4203T

*2 Except SP-5B00

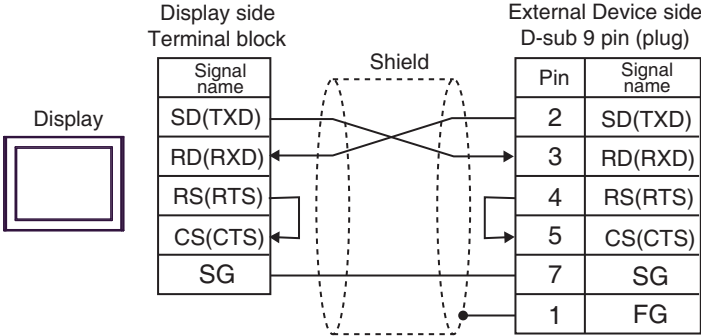
*3 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

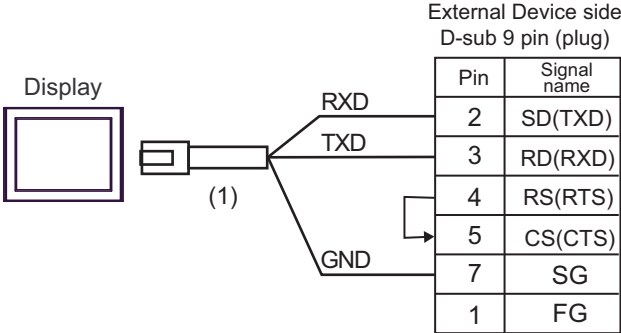
6A)



6B)



6C)



Number	Name	Notes
(1)	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBJR21	

Cable Diagram 7

Display	Cable		Remarks
GP3000 ^{*1} (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000 ^{*2} (COM2) LT3000 (COM1) IPC ^{*3}	7A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	7B	RS422 cable by Pro-face CA3-CBL422/5M-01	
	7C	User-created cable	
GP3000 ^{*4} (COM2)	7D	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	7E	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	7F	User-created cable	The cable length must be 500m or less.
GP4000 ^{*5} (COM2) GP-4201T (COM1) SP5000 ^{*6} (COM1/2) SP-5B00 (COM2) ST6000 ^{*7} (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 ^{*8} (COM2) PS6000 (Basic Box) (COM1/2)	7G	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1 ^{*9} + User-created cable	The cable length must be 500m or less.
	7B	RS422 cable by Pro-face CA3-CBL422/5M-01	
	7C	User-created cable	
PE-4000B ^{*10} PS5000 ^{*10} PS6000 (Optional Interface) ^{*10}	7H	User-created cable	The cable length must be 500m or less.

*1 All GP3000 models except AGP-3302B


*2 Except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)

 "■ IPC COM Port" (page 12)

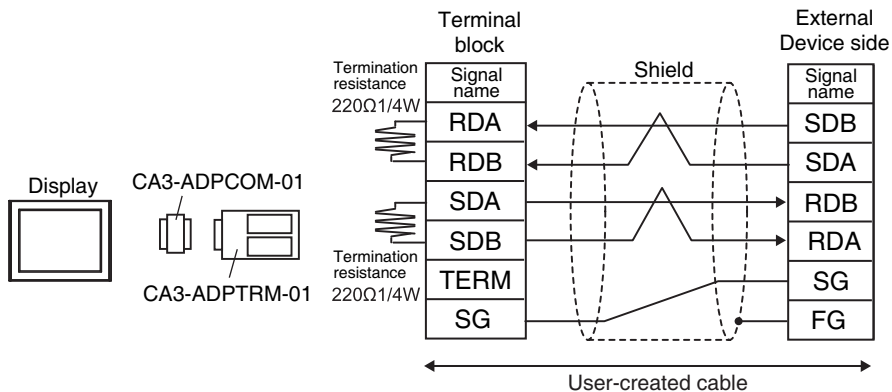
*4 All GP3000 models except GP-3200 series and AGP-3302B

*5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T

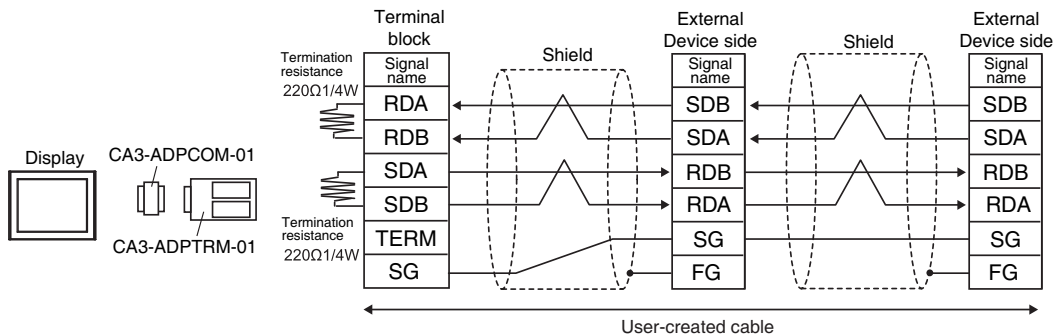
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 7A.
- *10 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

7A)

- 1:1 Connection



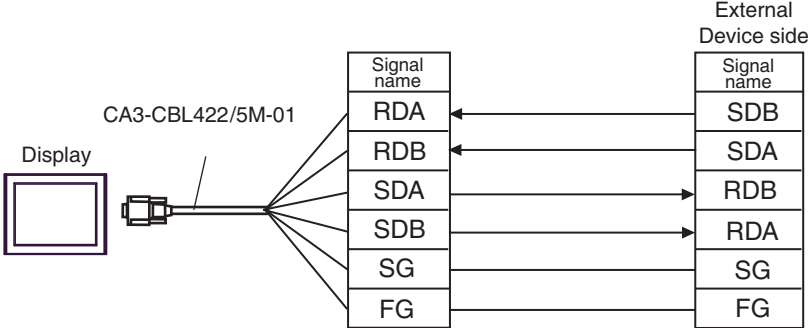
- 1:n Connection

**NOTE**

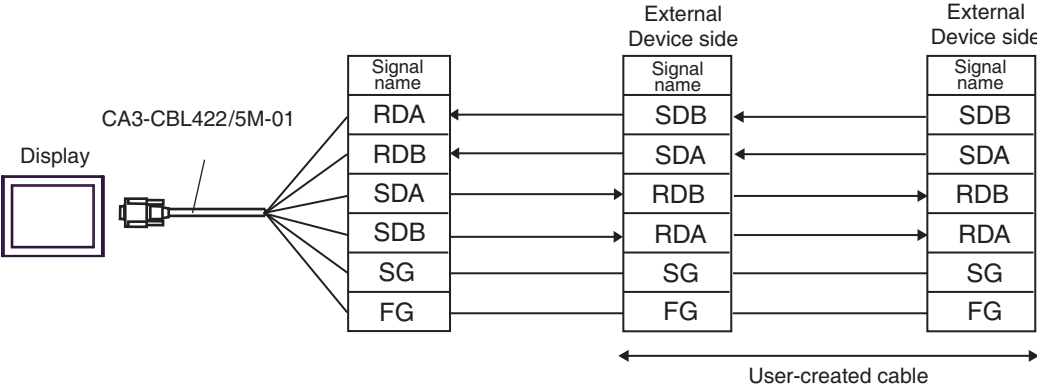
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

7B)

- 1:1 Connection

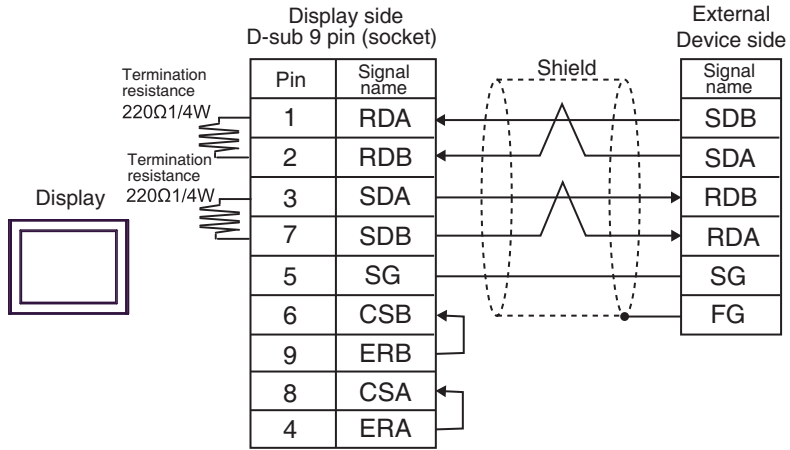


- 1:n Connection

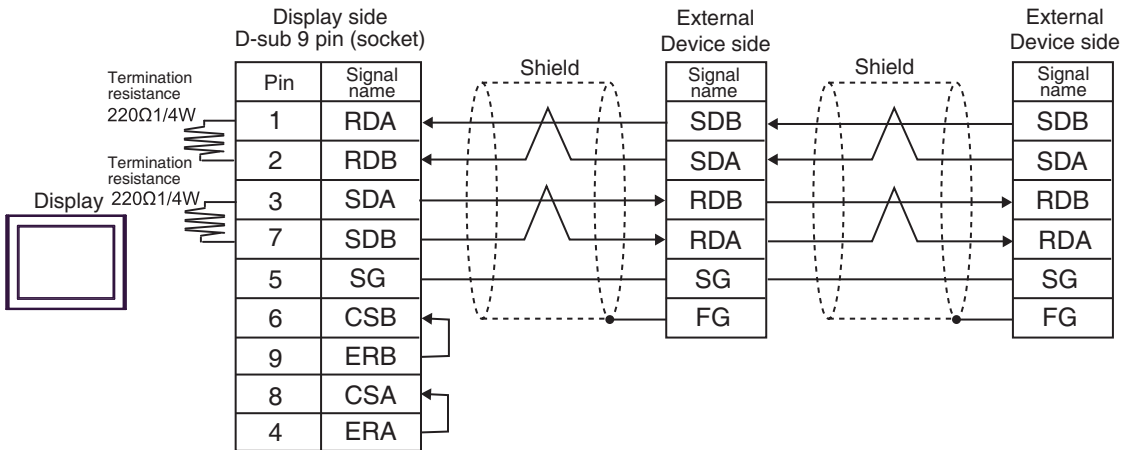


7C)

- 1:1 Connection



- 1:n Connection

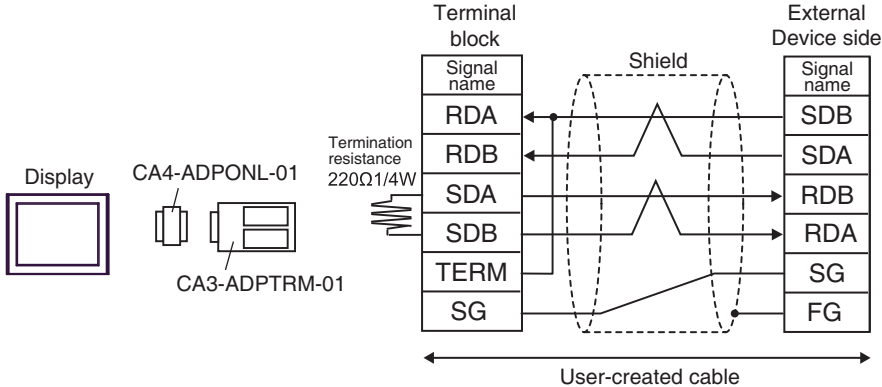


NOTE

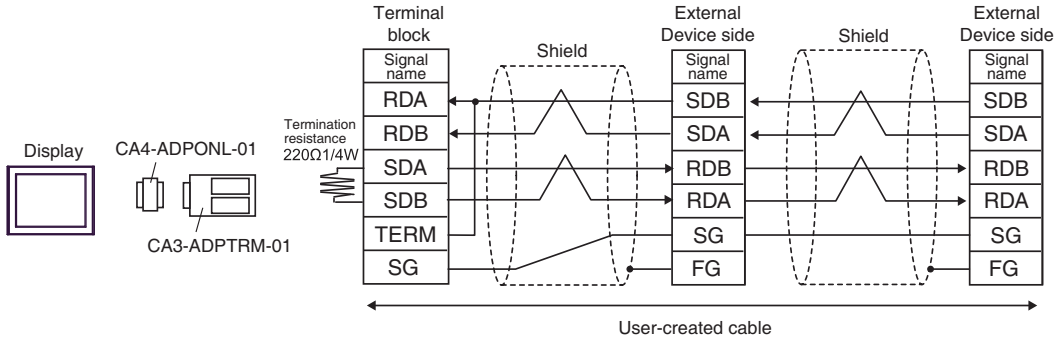
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

7D)

- 1:1 Connection

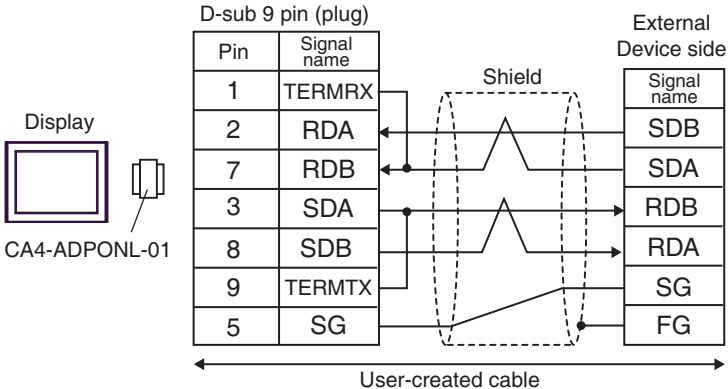


- 1:n Connection

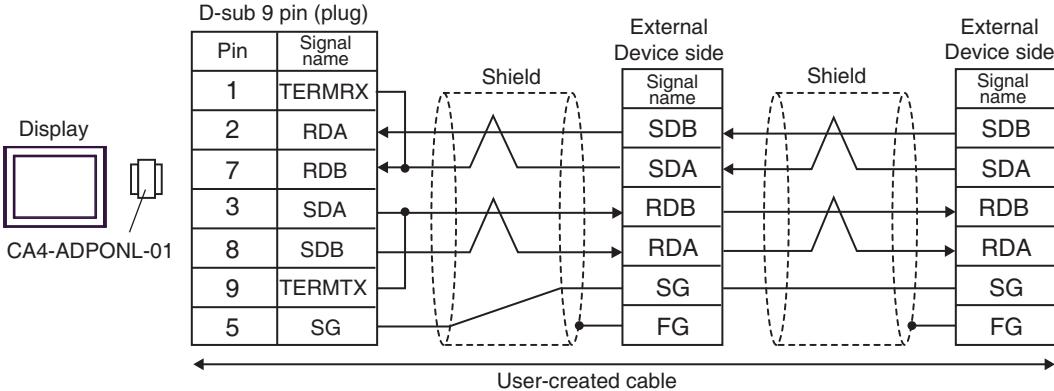


7E)

- 1:1 Connection

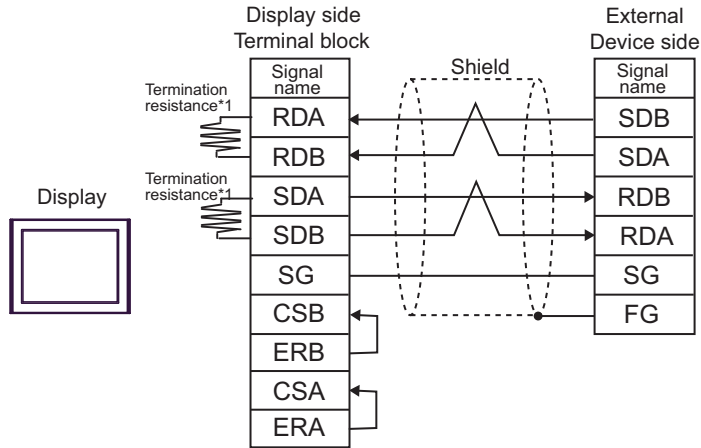


- 1:n Connection

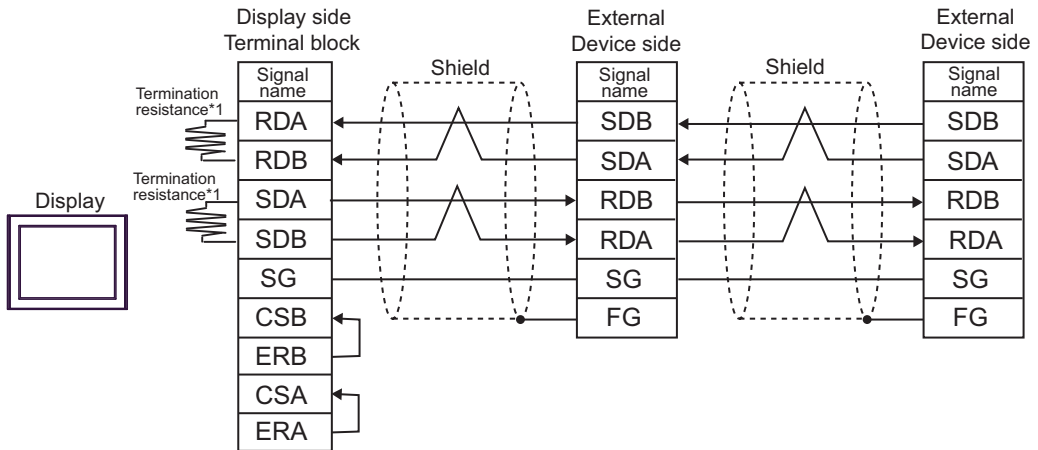


7F)

- 1:1 Connection



- 1:n Connection

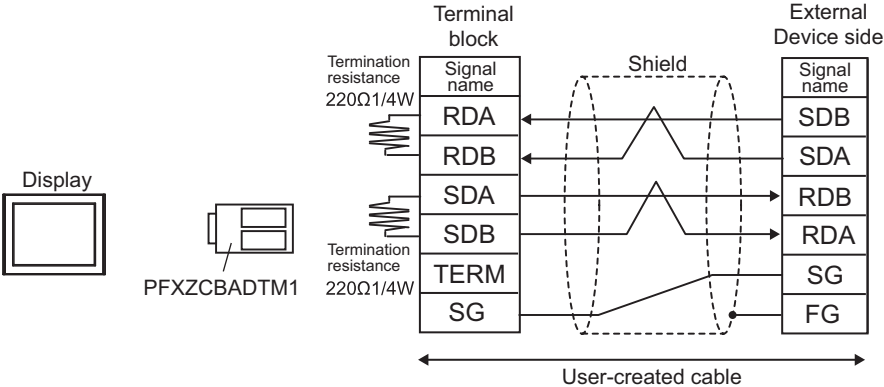


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

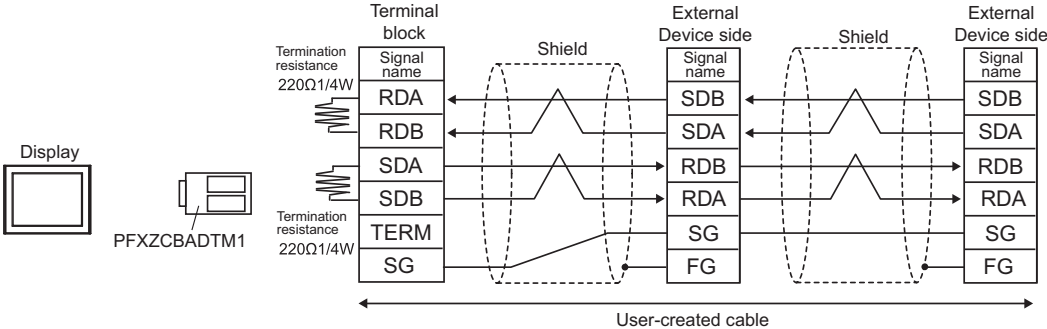
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

7G)

- 1:1 Connection

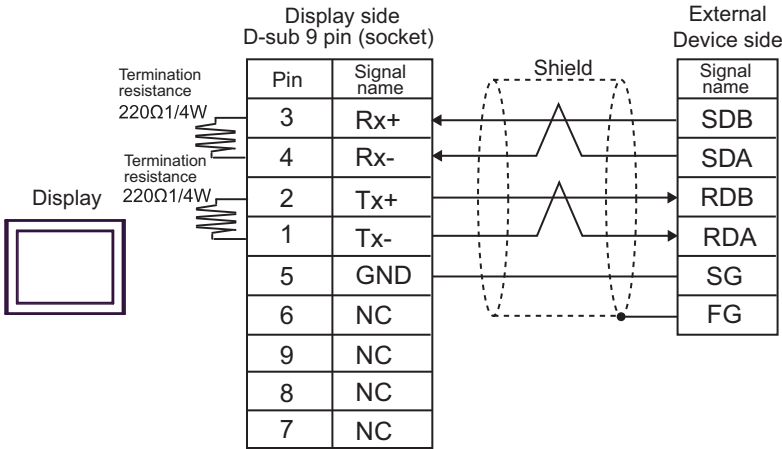


- 1:n Connection

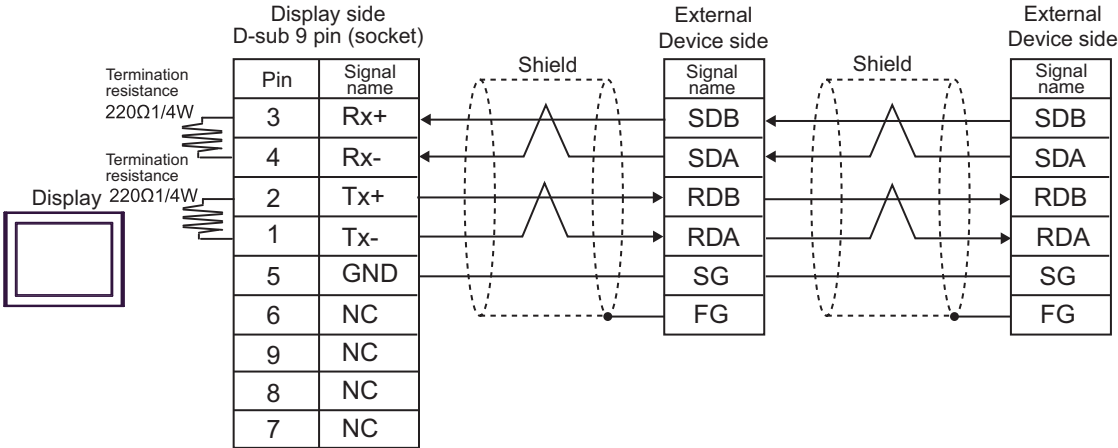


7H)

- 1:1 Connection



- 1:n Connection

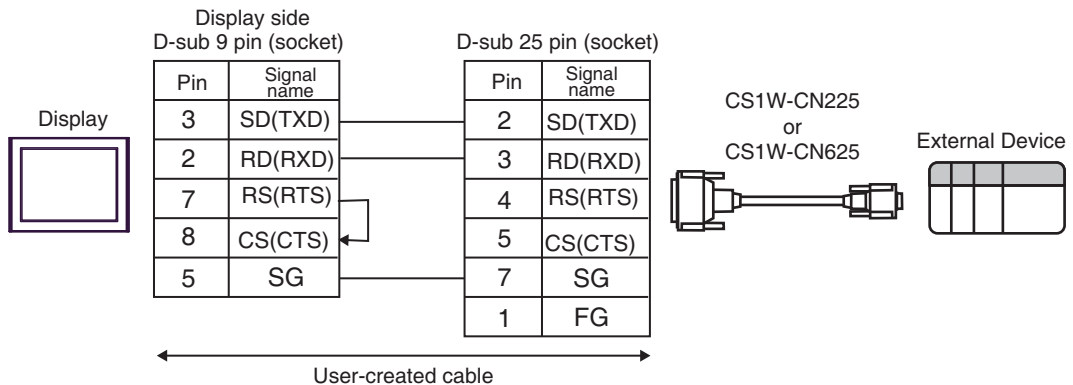


Cable Diagram 8

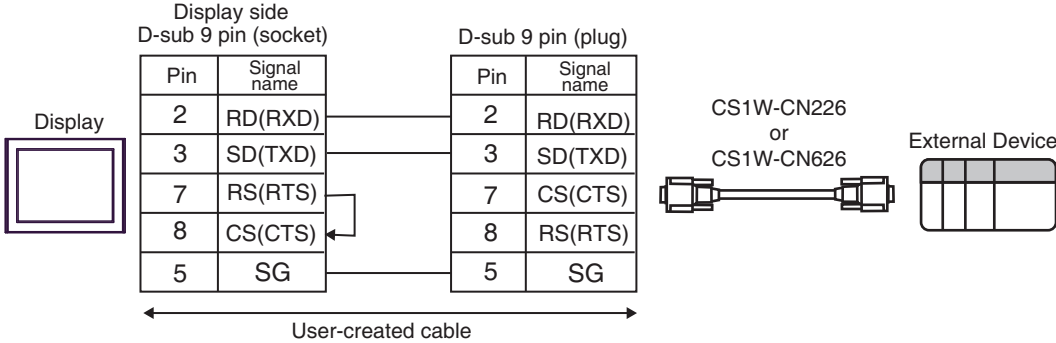
Display	Cable		Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	8A	User-created cable + CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation	The cable length must be 15m or less.
	8B	User-created cable + CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation	
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	8C	User-created cable + CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation	The cable length must be 15m or less.
	8D	User-created cable + CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation	
LT-4*01TM (COM1) LT-Rear Module (COM1)	8E	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJ21 + CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation	The cable length must be 11m or less.
	8F	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJ21 + CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation	

- *1 All GP4000 models except GP-4100 Series and GP-4203T
- *2 Except SP-5B00
- *3 Only the COM port which can communicate by RS-232C can be used.
 "■ IPC COM Port" (page 12)

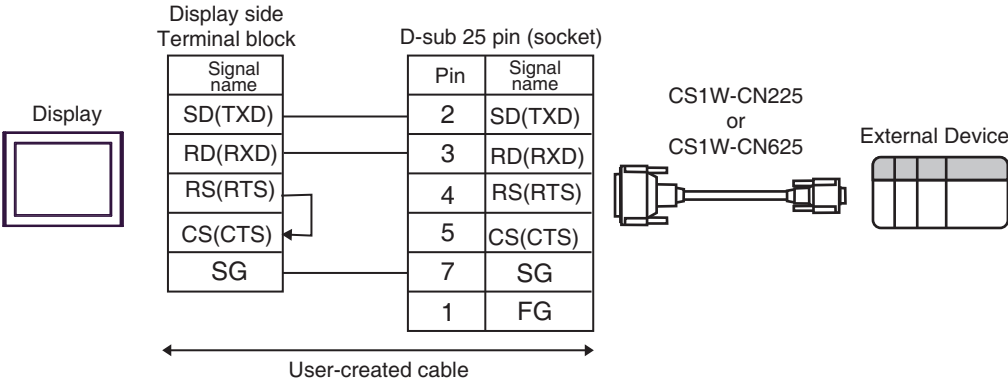
8A)



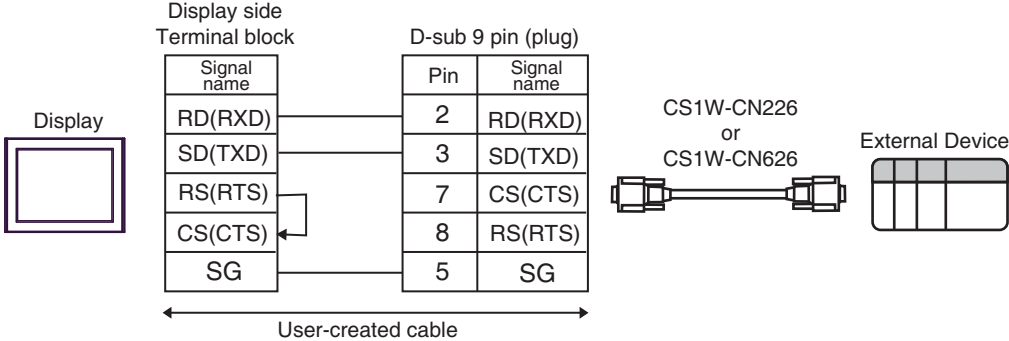
8B)



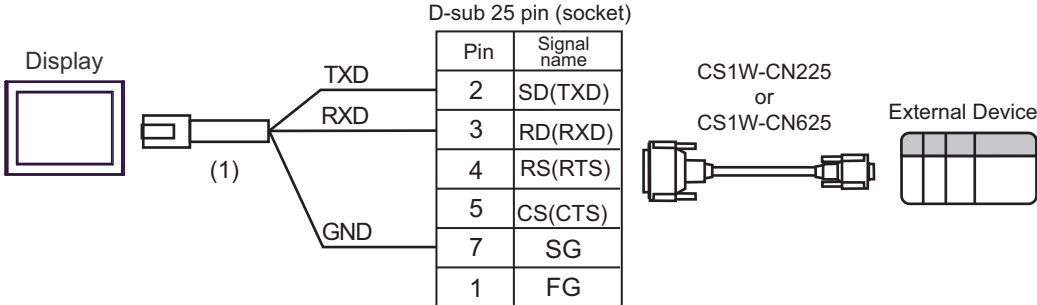
8C)



8D)

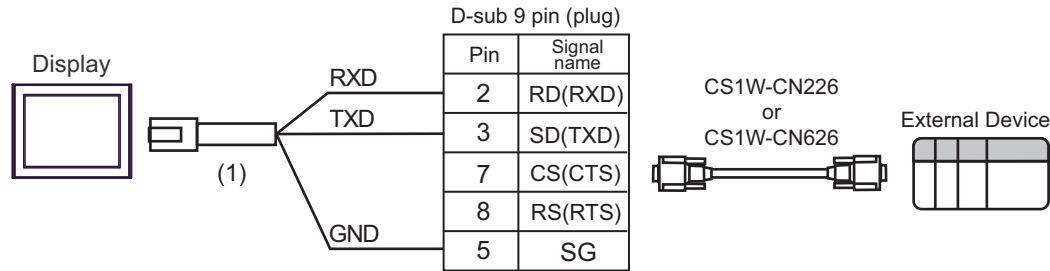


8E)



Number	Name	Notes
(1)	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBJR21	

8F)



Number	Name	Notes
(1)	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBJR21	

Cable Diagram 9

Display	Cable	Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	9A Isolation cable by OMRON Corporation CQM1-CIF01 + Connector conversion cable by OMRON Corporation CS1W-CN114	Commercial 9 pin/25 pin conversion adapter is required.
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	9B User-created cable + Isolation cable by OMRON Corporation CQM1-CIF01 + Connector conversion cable by OMRON Corporation CS1W-CN114	

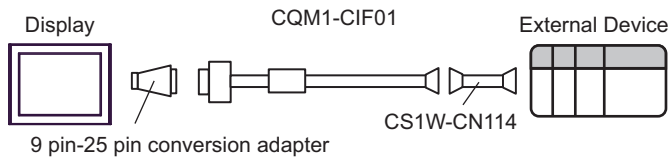
*1 All GP4000 models except GP-4100 Series and GP-4203T

*2 Except SP-5B00

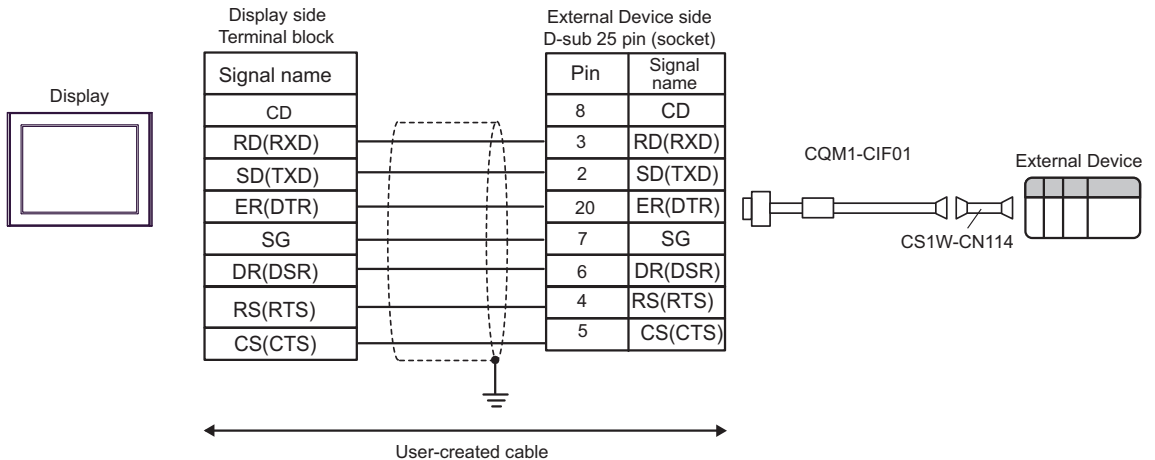
*3 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

9A)



9B)



Cable Diagram 10

Display	Cable		Remarks
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	10A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	10B	RS422 cable by Pro-face CA3-CBL422/5M-01	
	10C	User-created cable	
GP3000* ⁴ (COM2)	10D	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	10E	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	10F	User-created cable	The cable length must be 500m or less.
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	10G	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	The cable length must be 500m or less.
	10B	RS422 cable by Pro-face CA3-CBL422/5M-01	
	10C	User-created cable	
PE-4000B* ¹⁰ PS5000* ¹⁰ PS6000 (Optional Interface)* ¹⁰	10H	User-created cable	The cable length must be 500m or less.


*1 All GP3000 models except AGP-3302B

*2 Except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)

 ■ "IPC COM Port" (page 12)

*4 All GP3000 models except GP-3200 series and AGP-3302B

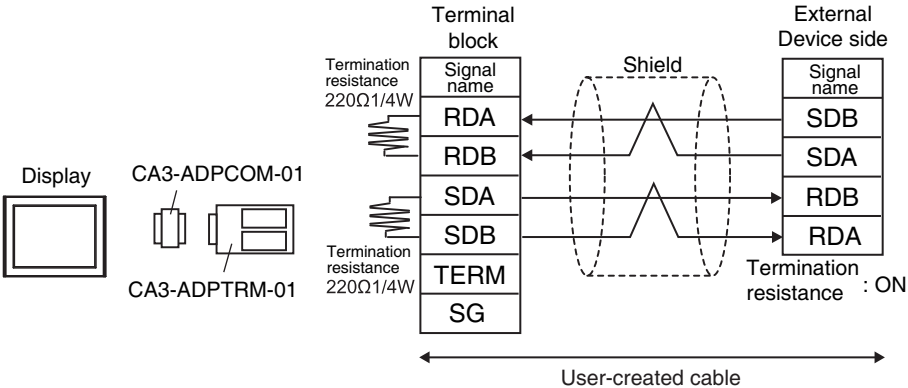
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 10A.
- *10 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

⚠ CAUTION

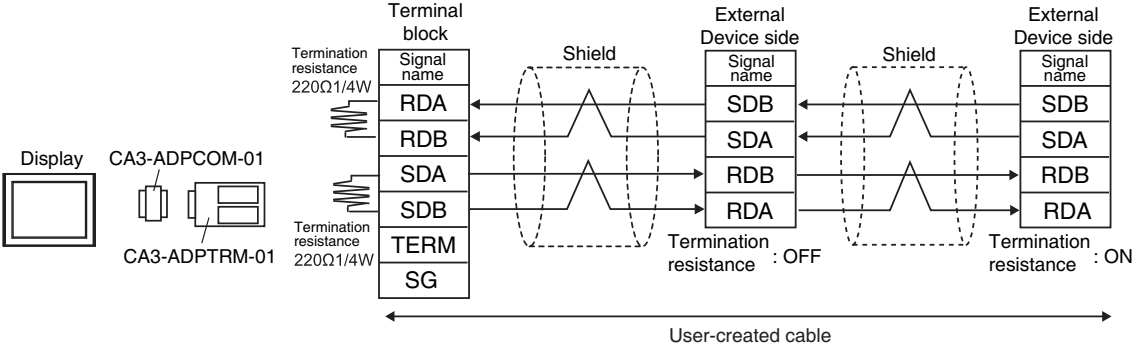
- When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.
-

10A)

- 1:1 Connection



- 1:n Connection

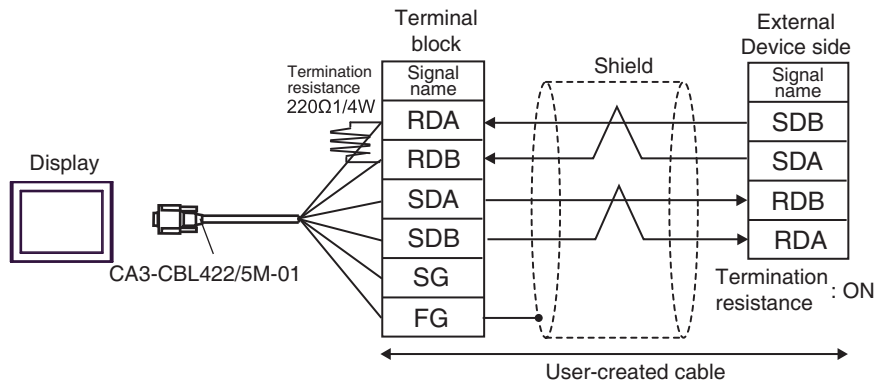


NOTE

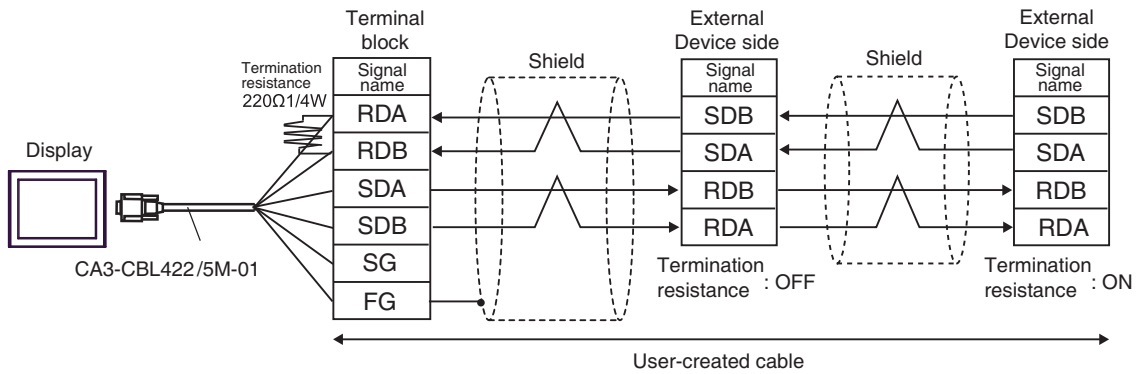
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

10B)

- 1:1 Connection

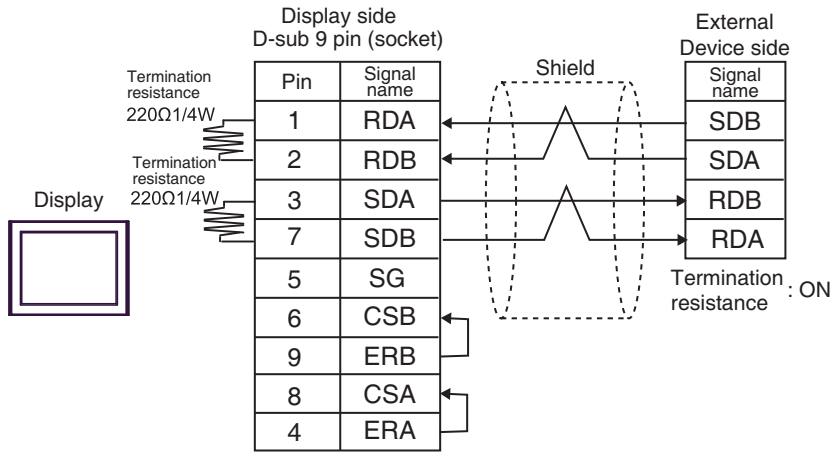


- 1:n Connection

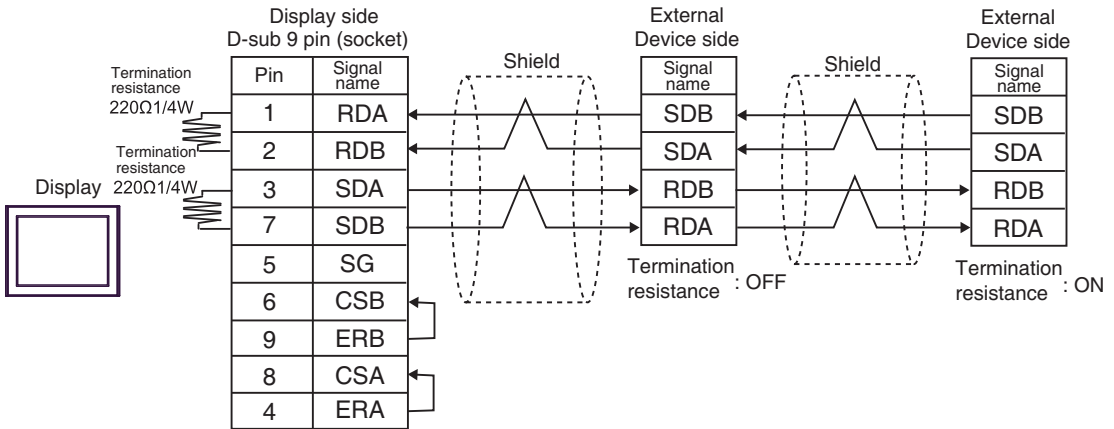


10C)

- 1:1 Connection



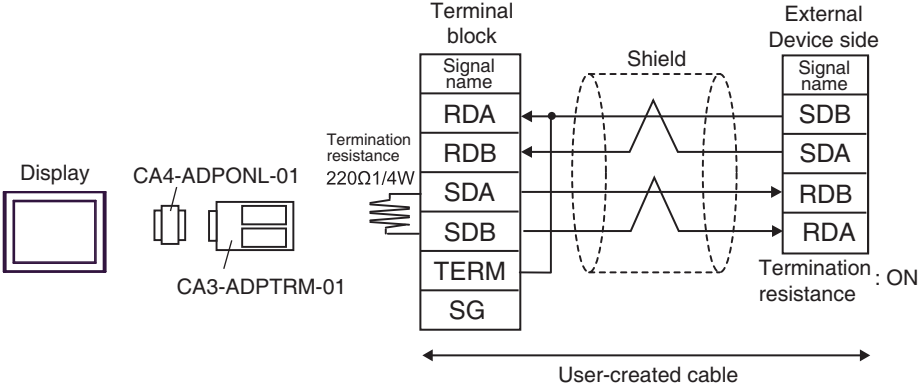
- 1:n Connection



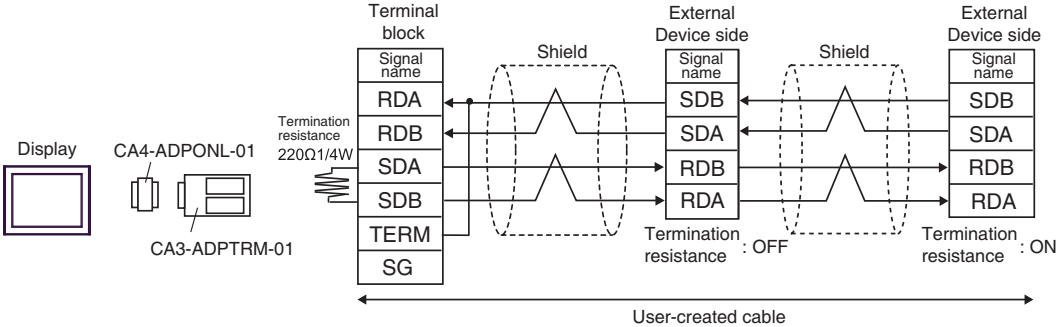
NOTE • When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

10D)

- 1:1 Connection

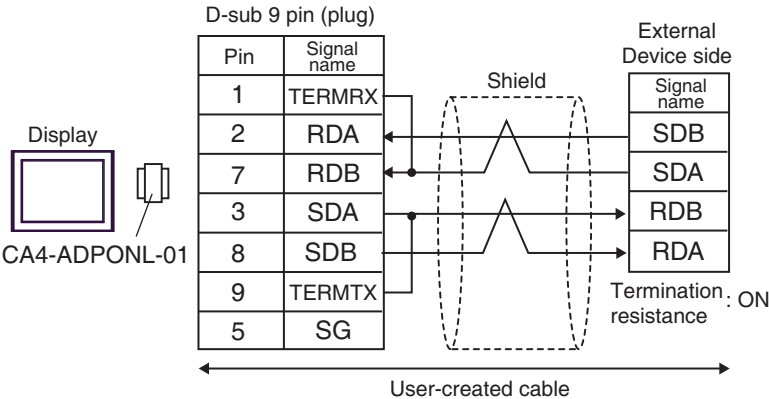


- 1:n Connection

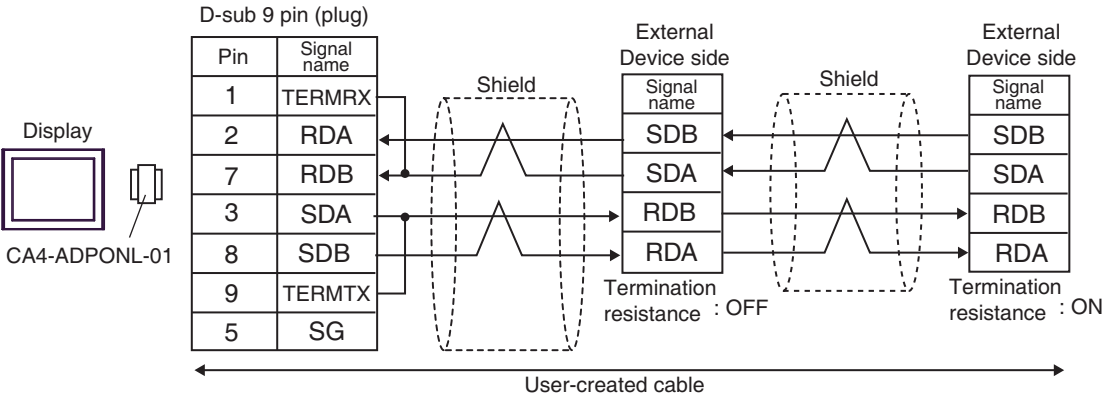


10E)

- 1:1 Connection

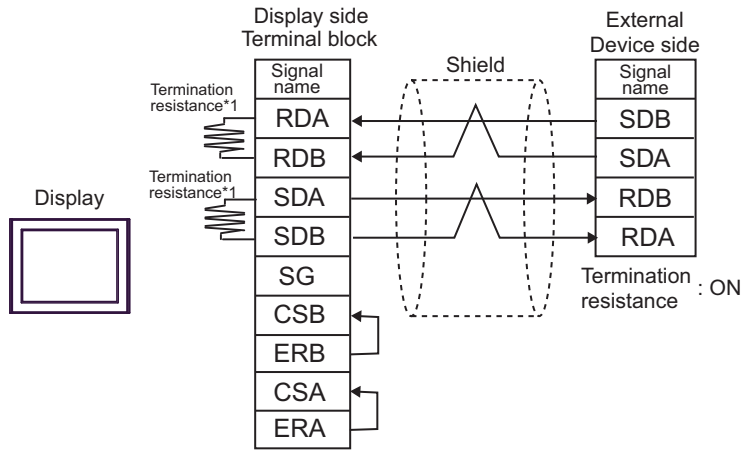


- 1:n Connection

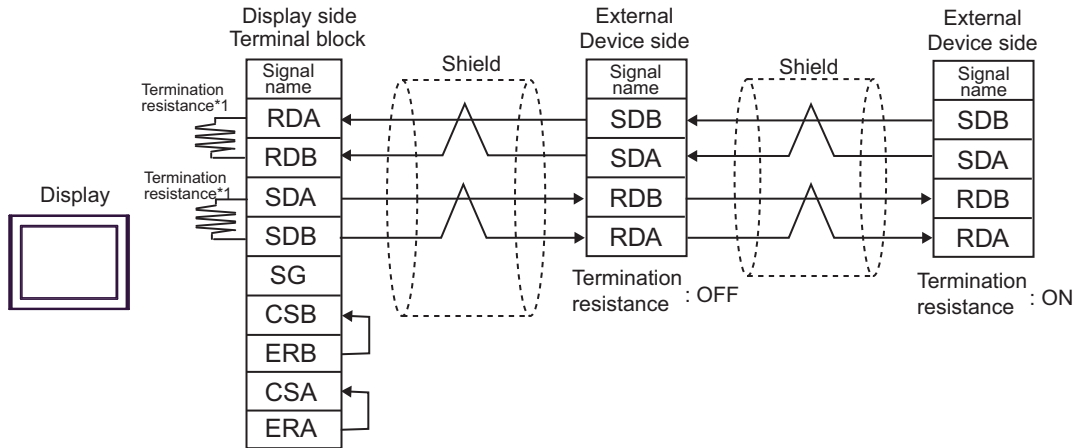


10F)

- 1:1 Connection



- 1:n Connection

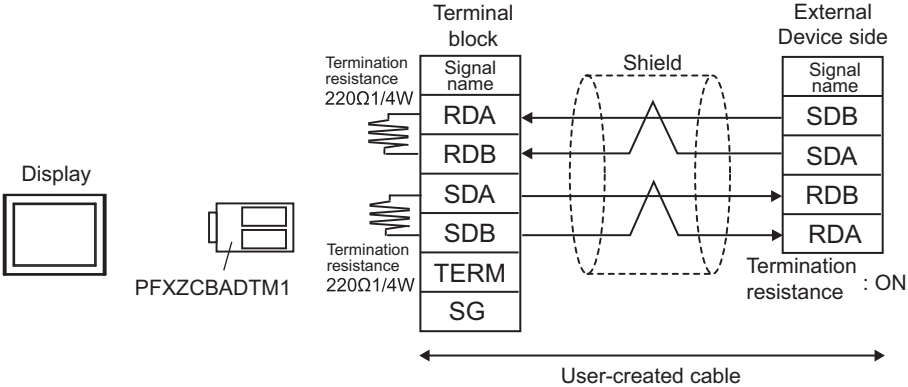


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

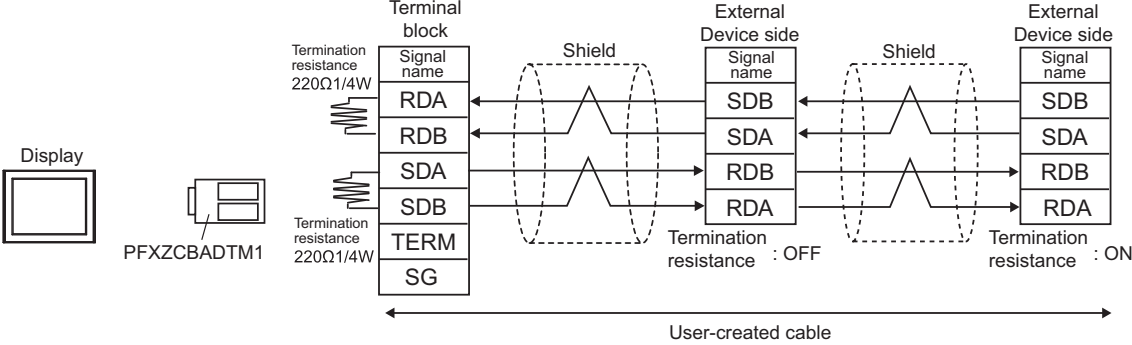
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

10G)

- 1:1 Connection

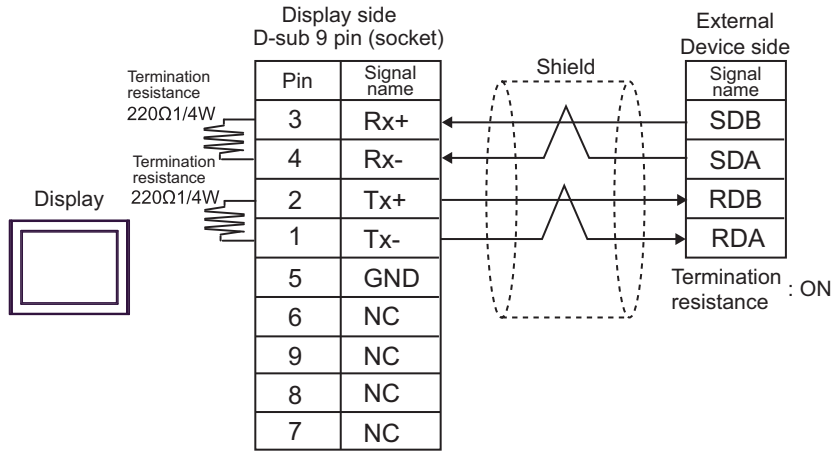


- 1:n Connection

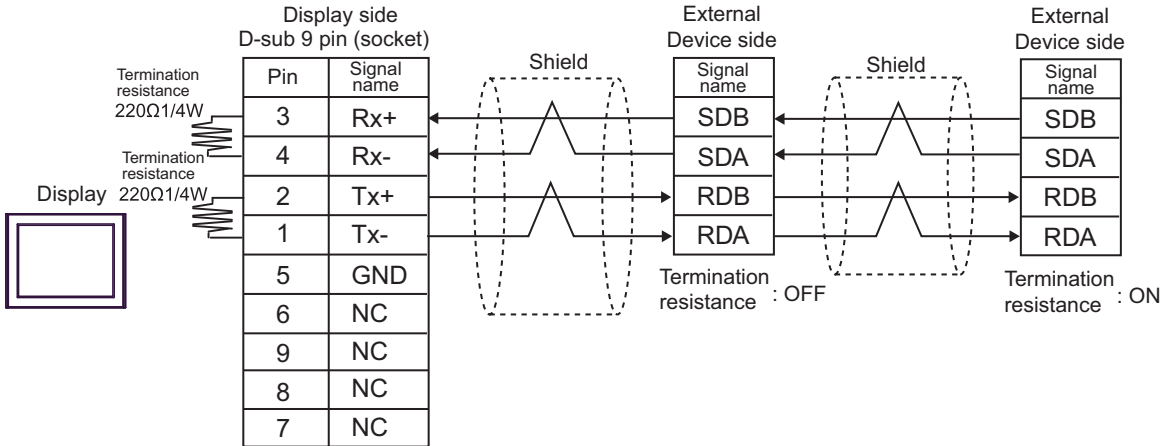


10H)

- 1:1 Connection



- 1:n Connection



Cable Diagram 11

Display	Cable		Remarks
GP3000 ^{*1} (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000 ^{*2} (COM2) LT3000 (COM1) IPC ^{*3}	11A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	11B	RS422 cable by Pro-face CA3-CBL422/5M-01	
	11C	User-created cable	
GP3000 ^{*4} (COM2)	11D	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	11E	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	11F	User-created cable	The cable length must be 500m or less.
GP4000 ^{*5} (COM2) GP-4201T (COM1) SP5000 ^{*6} (COM1/2) SP-5B00 (COM2) ST6000 ^{*7} (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 ^{*8} (COM2) PS6000 (Basic Box) (COM1/2)	11G	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1 ^{*9} + User-created cable	The cable length must be 500m or less.
	11B	RS422 cable by Pro-face CA3-CBL422/5M-01	
	11C	User-created cable	
PE-4000B ^{*10} PS5000 ^{*10} PS6000 (Optional Interface) ^{*10}	11H	User-created cable	The cable length must be 500m or less.

*1 All GP3000 models except AGP-3302B

*2 Except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)

 "■ IPC COM Port" (page 12)

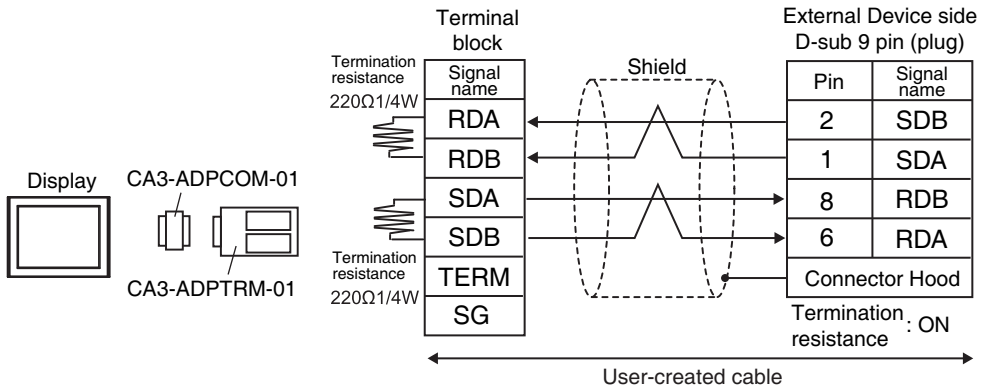
*4 All GP3000 models except GP-3200 series and AGP-3302B

*5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T

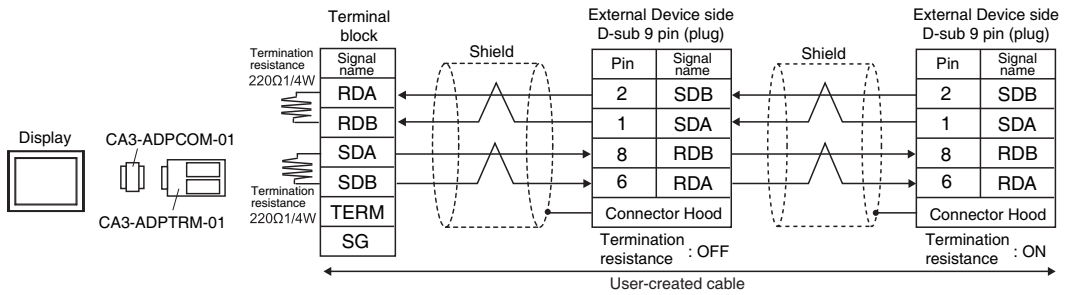
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 11A.
- *10 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 - ☞ "■ IPC COM Port" (page 12)
- * When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

11A)

- 1:1 Connection



- 1:n Connection

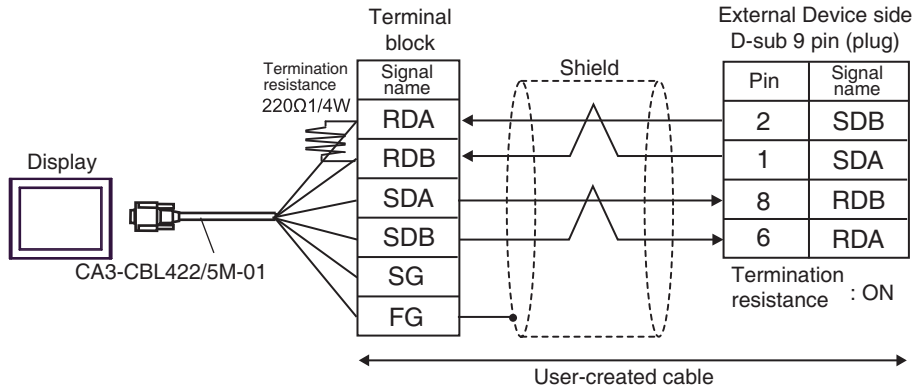


NOTE

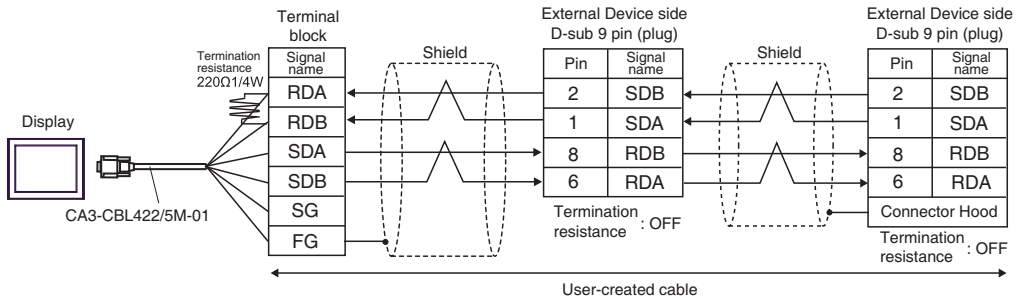
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

11B)

- 1:1 Connection

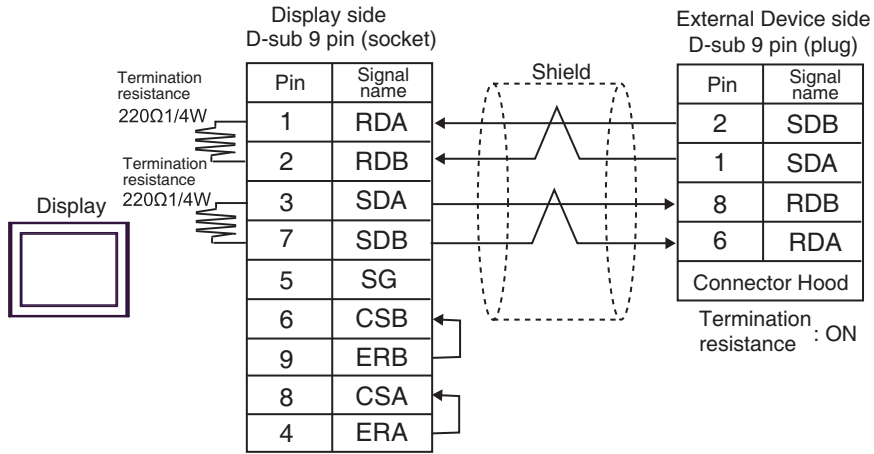


- 1:n Connection

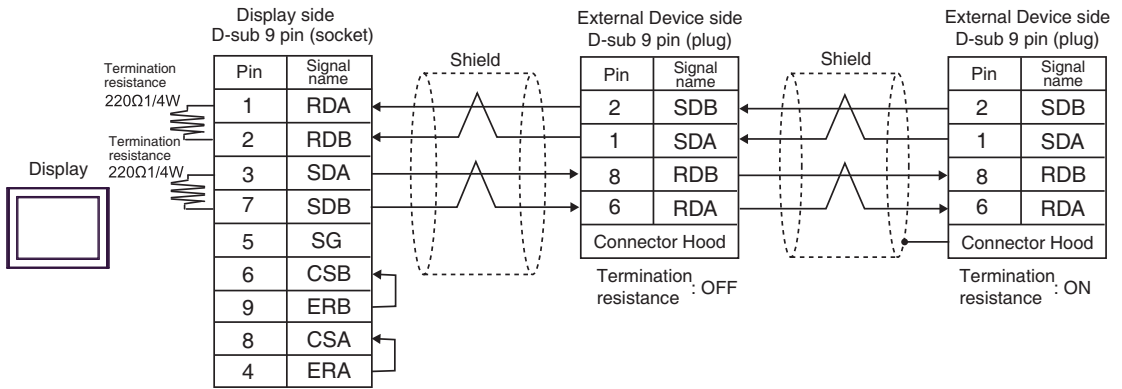


11C)

- 1:1 Connection



- 1:n Connection

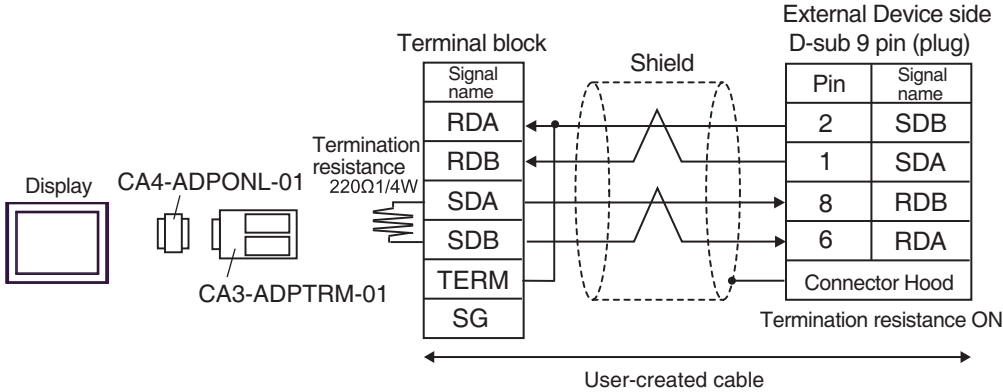


NOTE

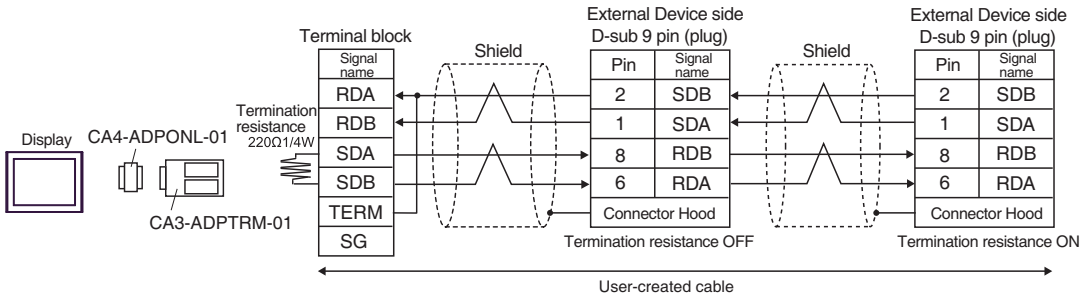
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

11D)

- 1:1 Connection

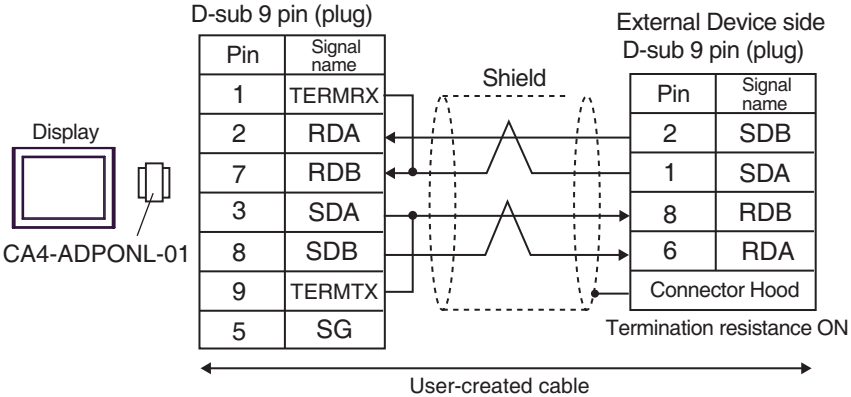


- 1:n Connection

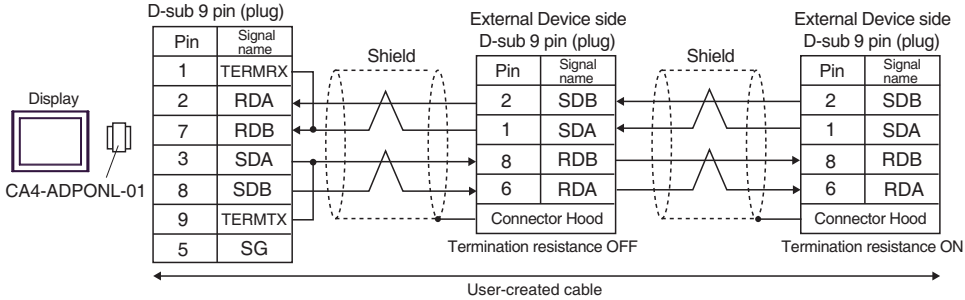


11E)

- 1:1 Connection

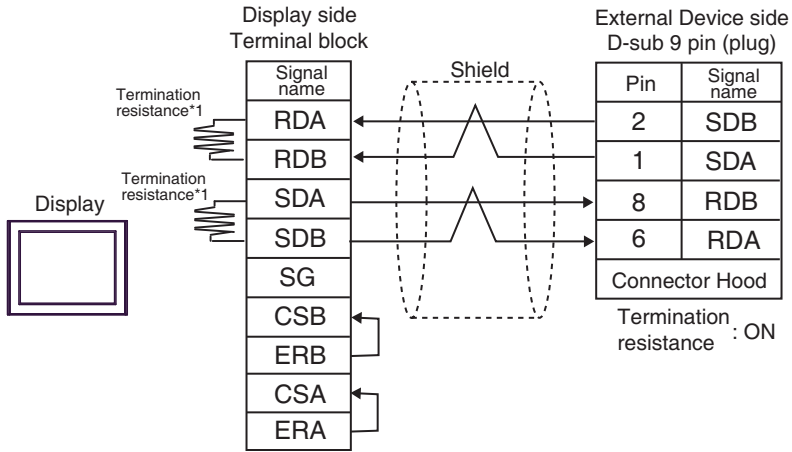


- 1:n Connection

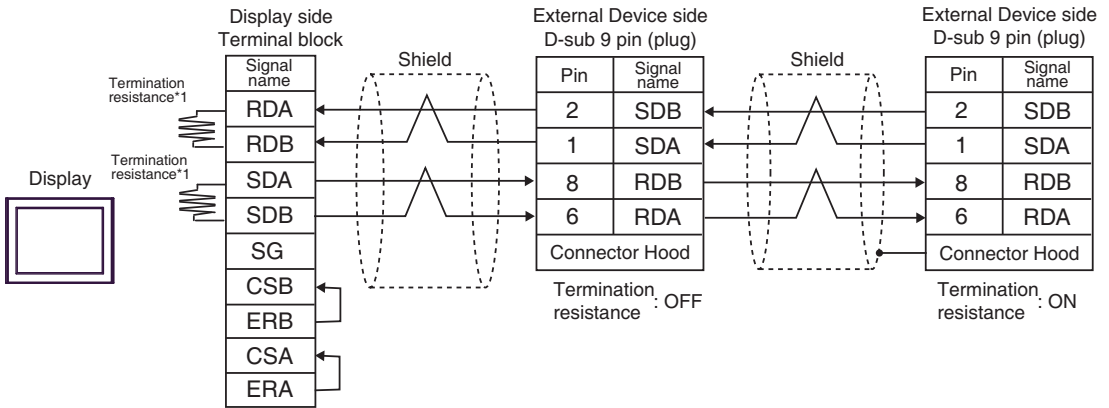


11F)

- 1:1 Connection



- 1:n Connection

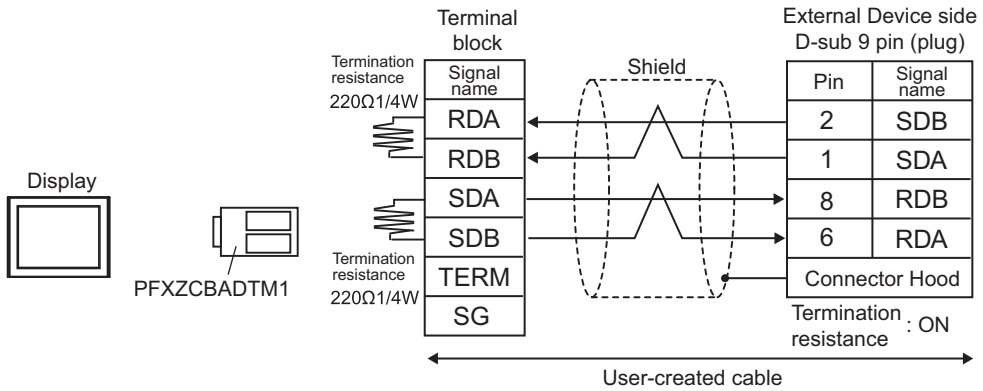


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

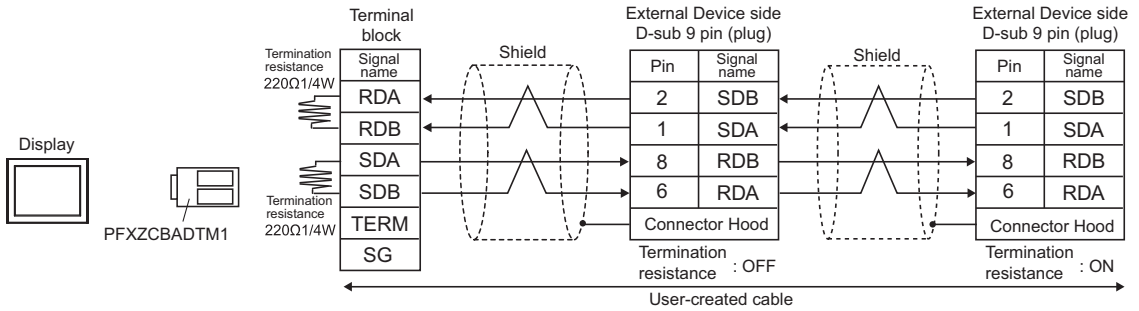
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

11G)

- 1:1 Connection

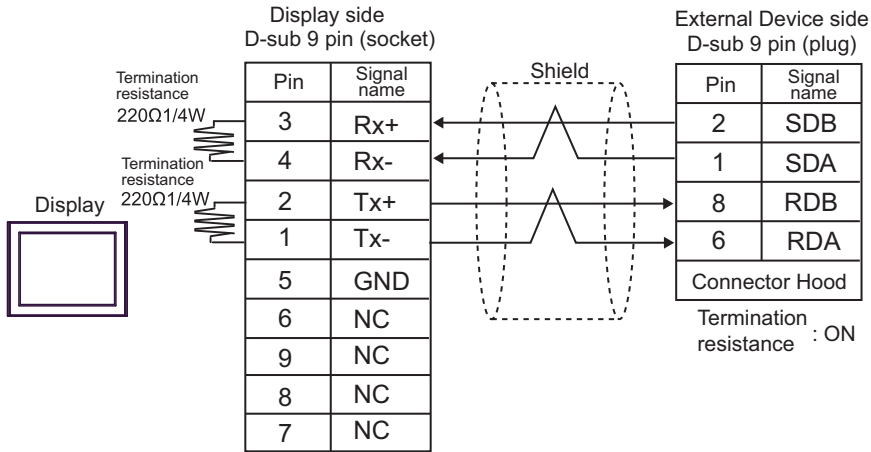


- 1:n Connection

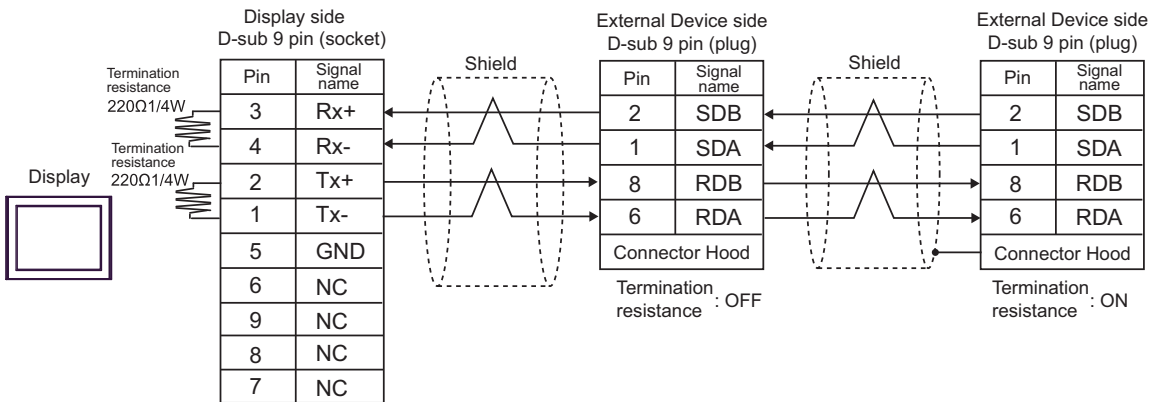


11H)

- 1:1 Connection



- 1:n Connection



Cable Diagram 12

Display	Cable		Remarks
GP3000 (COM1) GP4000* ¹ (COM1) SP5000* ² (COM1/2) SP-5B00 (COM1) ST3000 (COM1) ST6000 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000 (COM1) LT3000 (COM1) IPC* ³ PC/AT	12A	User-created cable	The cable length must be 15m or less.
GP-4105 (COM1) GP-4115T (COM1) GP-4115T3 (COM1)	12B	User-created cable	The cable length must be 15m or less.
LT-4*01TM (COM1) LT-Rear Module (COM1)	12C	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBJR21	The cable length must be 5m or less.

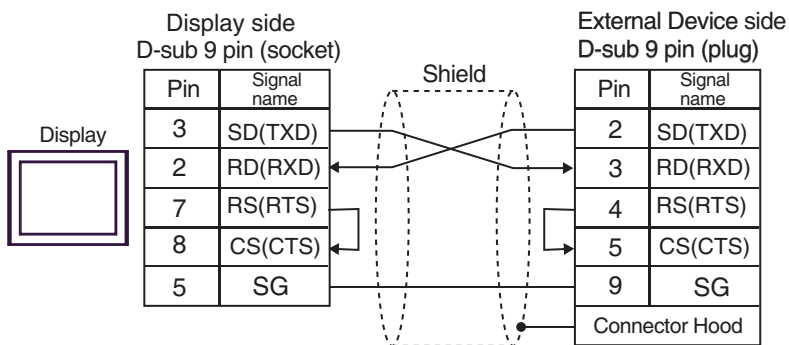
*1 All GP4000 models except GP-4100 Series and GP-4203T

*2 Except SP-5B00

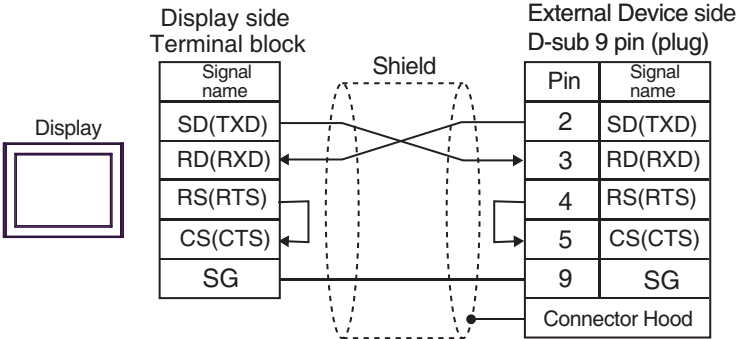
*3 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

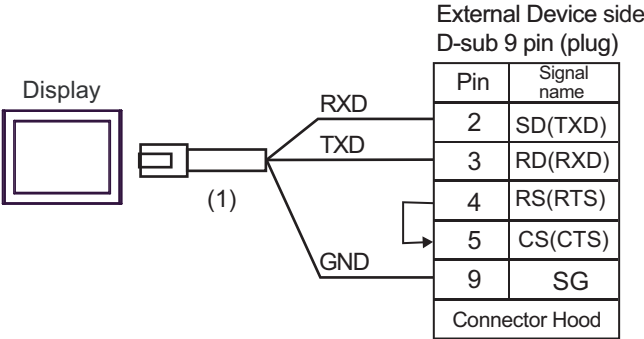
12A)



12B)



12C)



Number	Name	Notes
(1)	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJ21	

Cable Diagram 13

Display	Cable		Remarks
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	13A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	13B	User-created cable	
GP3000* ⁴ (COM2)	13C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 500m or less.
	13D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	13E	User-created cable	The cable length must be 500m or less.
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	13F	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	The cable length must be 500m or less.
	13B	User-created cable	
PE-4000B* ¹⁰ PS5000* ¹⁰ PS6000 (Optional Interface)* ¹⁰	13G	User-created cable	The cable length must be 500m or less.

*1 All GP3000 models except AGP-3302B

*2 Except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)

 ■ IPC COM Port" (page 12)

*4 All GP3000 models except GP-3200 series and AGP-3302B

*5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T

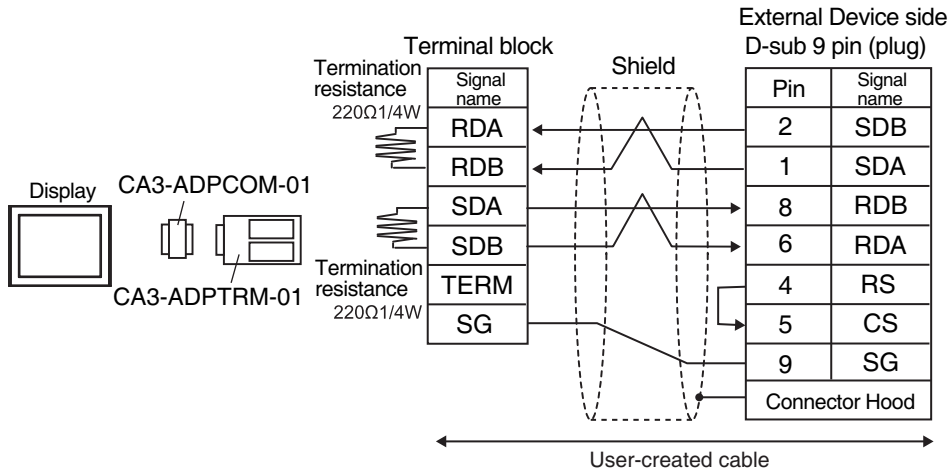
*6 Except SP-5B00

*7 Except ST-6200

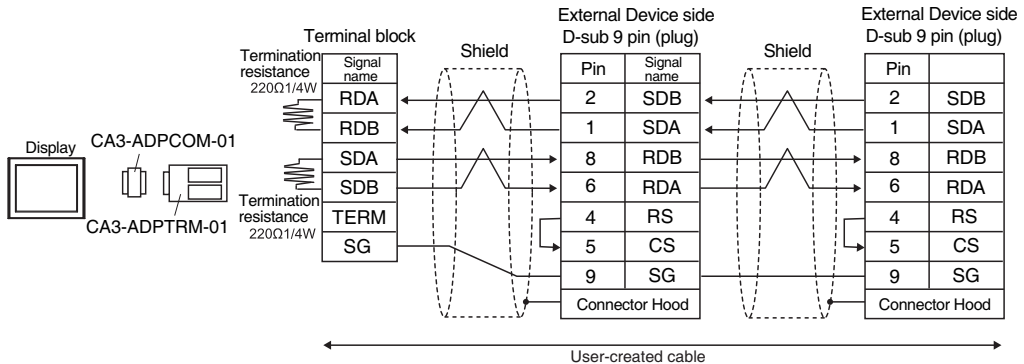
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 13A.
- *10 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 ☞ "■ IPC COM Port" (page 12)

13A)

- 1:1 Connection



- 1:n Connection

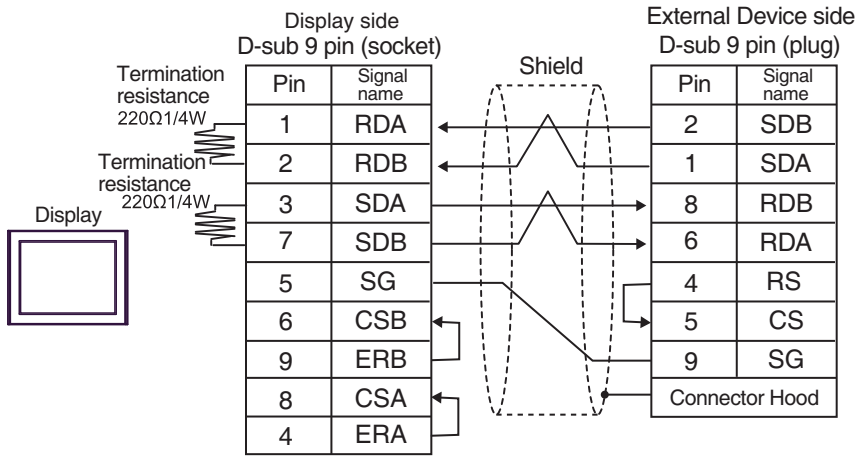


NOTE

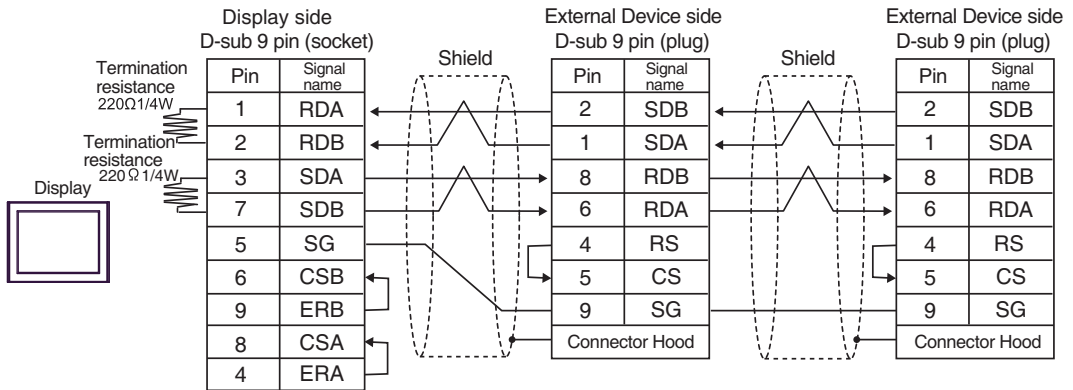
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.
- When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

13B)

- 1:1 Connection



- 1:n Connection

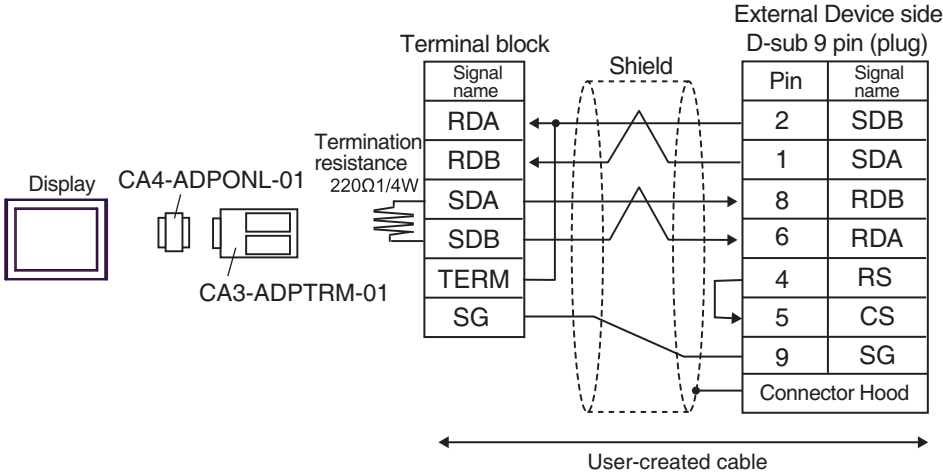


NOTE

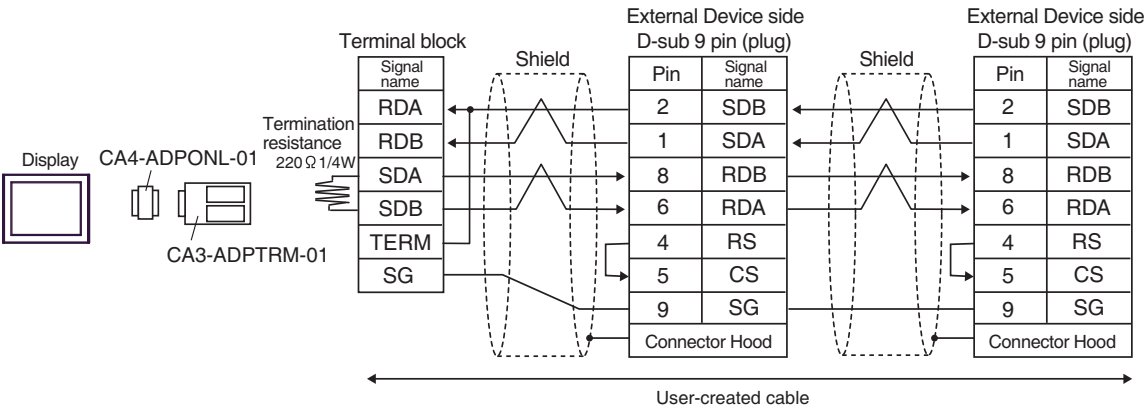
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.
- When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

13C)

- 1:1 Connection



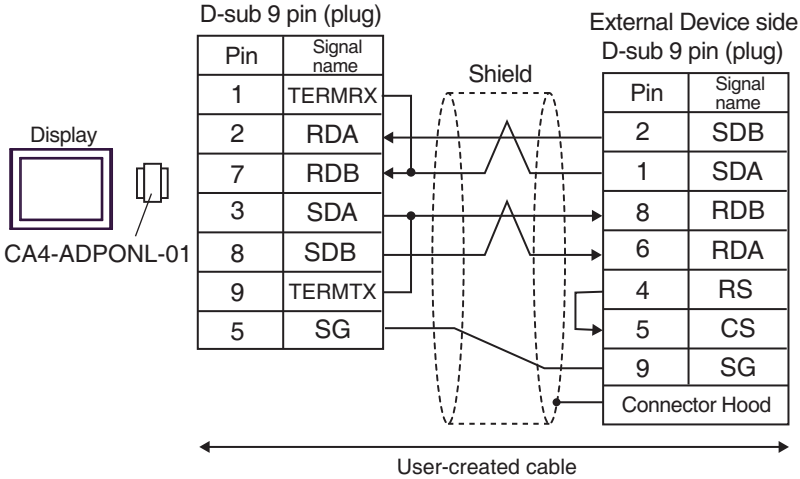
- 1:n Connection



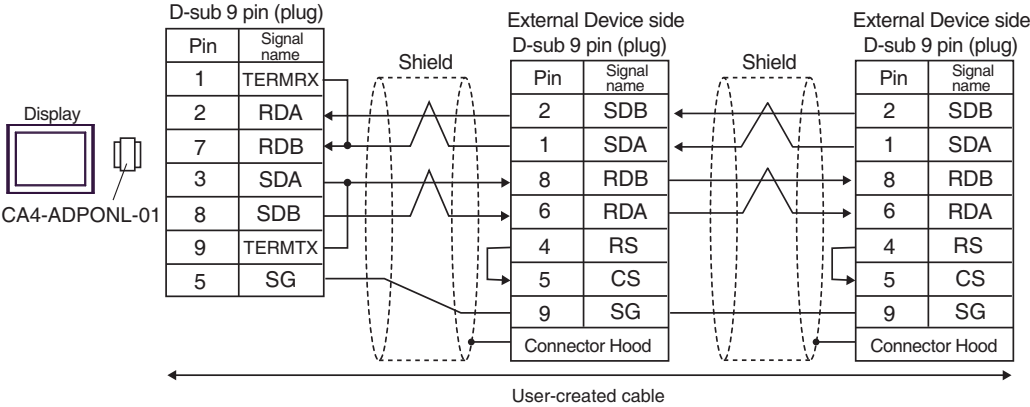
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

13D)

- 1:1 Connection



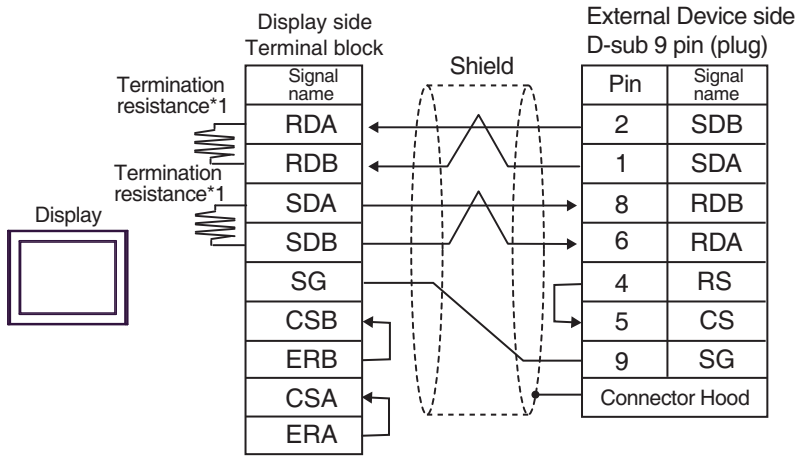
- 1:n Connection



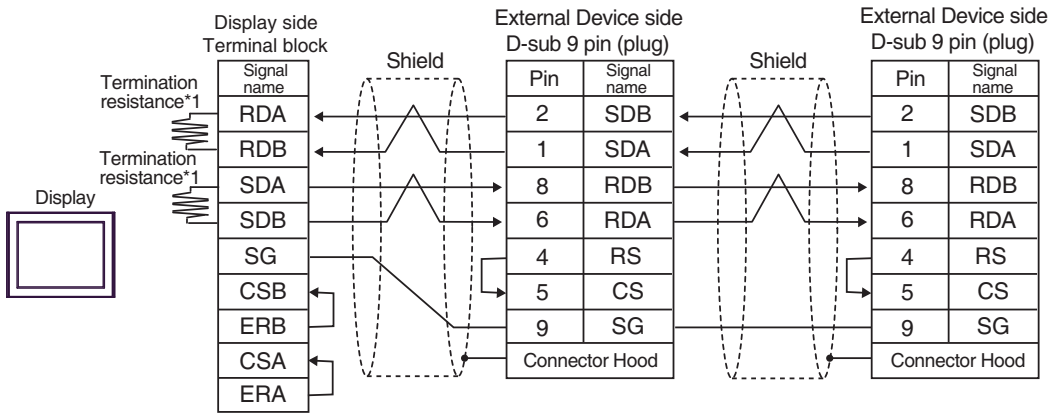
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

13E)

- 1:1 Connection



- 1:n Connection



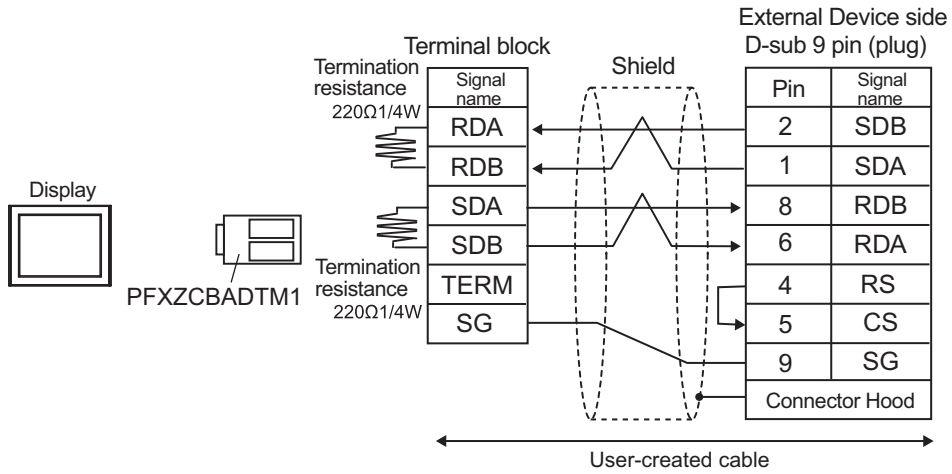
*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

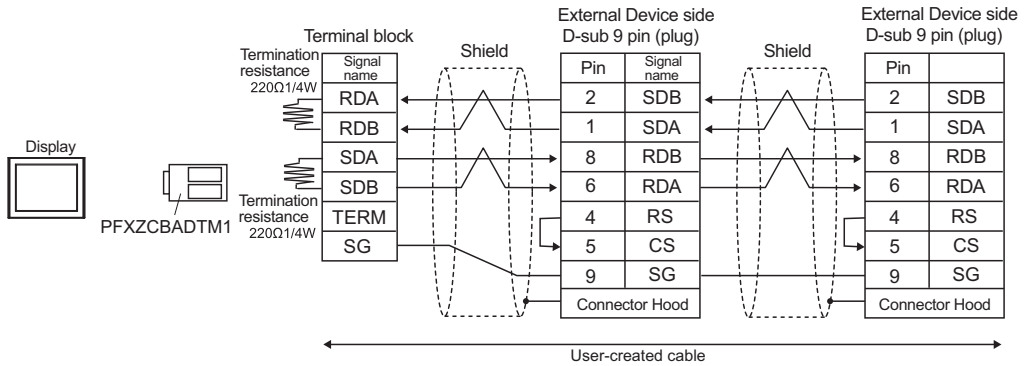
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

13F)

- 1:1 Connection



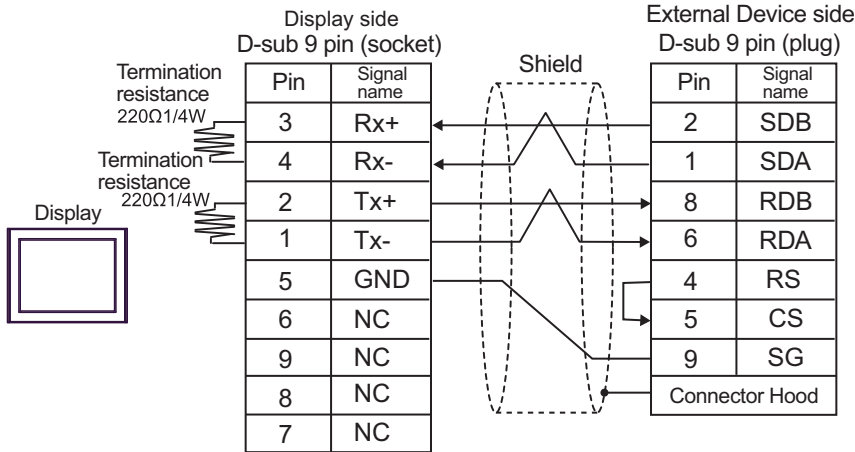
- 1:n Connection



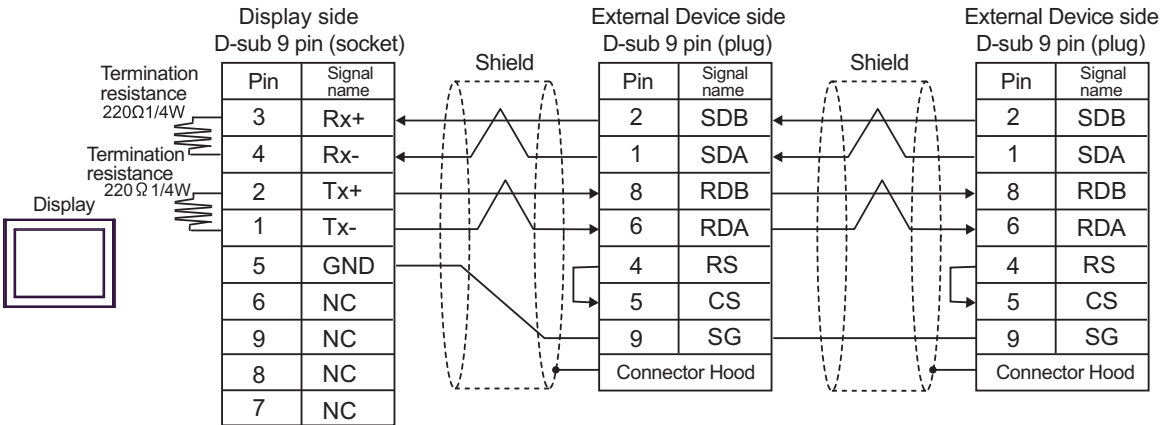
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

13G)

- 1:1 Connection



- 1:n Connection



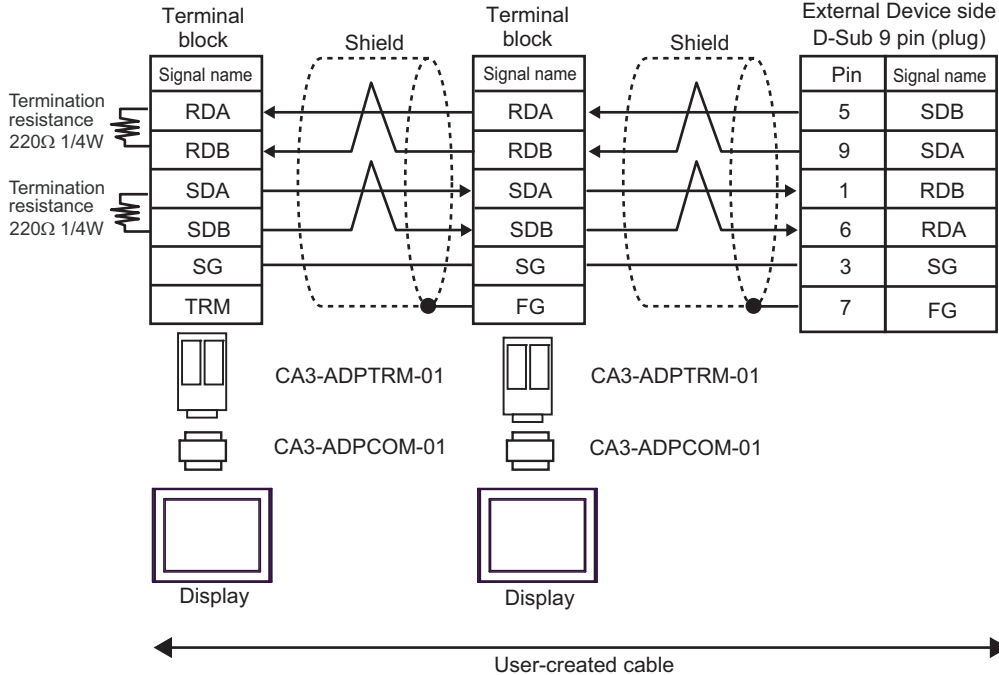
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

Cable Diagram 14

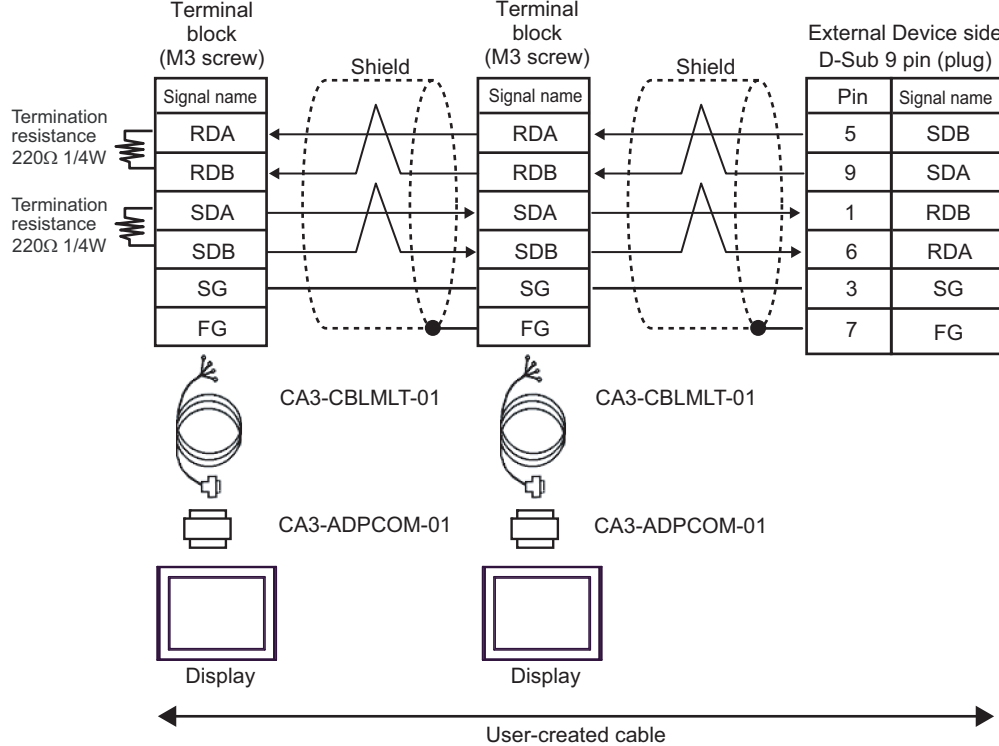
Display (Connection Port)	Cable		Notes
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	14A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m max
	14B	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	14C	User-created cable	
GP3000* ⁴ (COM2)	14D	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + User-created cable	Cable length: 500m max
	14E	Online adapter by Pro-face CA4-ADPONL-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	14F	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	14G	User-created cable	Cable length: 500m max
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	14H	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	Cable length: 500m max
	14I	Multilink cable by Pro-face PFXZCBCBML1* ¹⁰ + User-created cable	
	14C	User-created cable	
PE-4000B* ¹¹ PS5000* ¹¹ PS6000 (Optional Interface)* ¹¹	14J	User-created cable	Cable length: 500m max

- *1 All GP3000 models except AGP-3302B
- *2 Except AST-3211A and AST-3302B
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)
 ☞ "■ IPC COM Port" (page 12)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 14A.
- *10 When using a Multilink Cable (CA3-CBLMLT-01) instead of the Multilink Cable, refer to Cable Diagram 14B.
- *11 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 ☞ "■ IPC COM Port" (page 12)

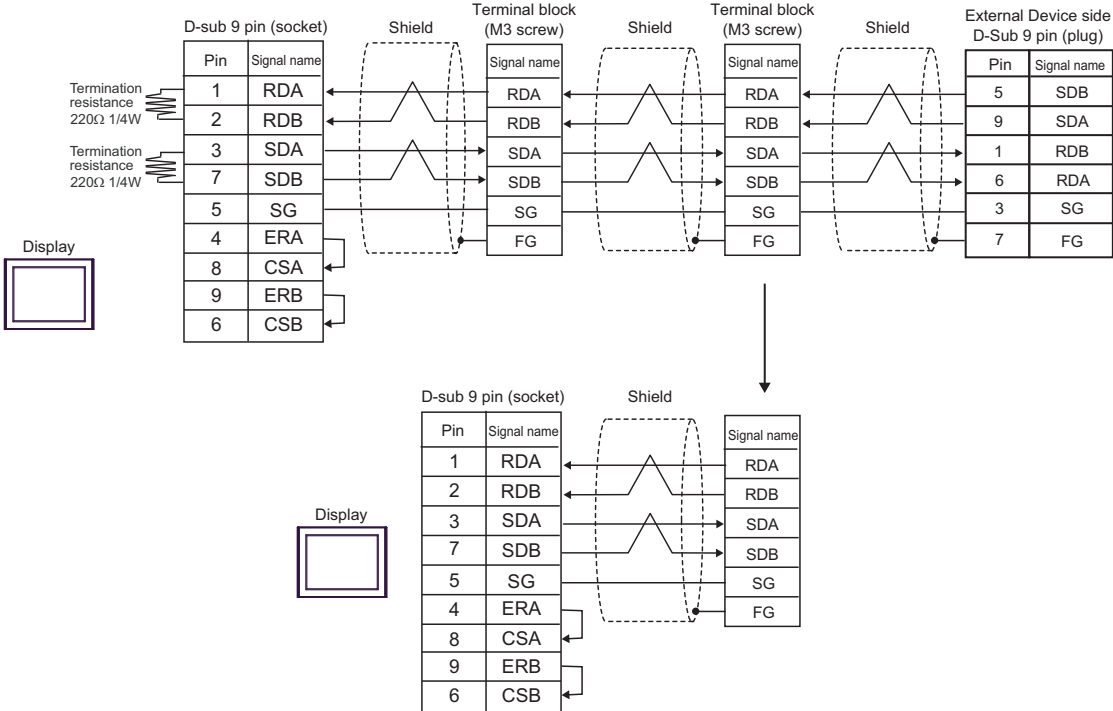
14A)



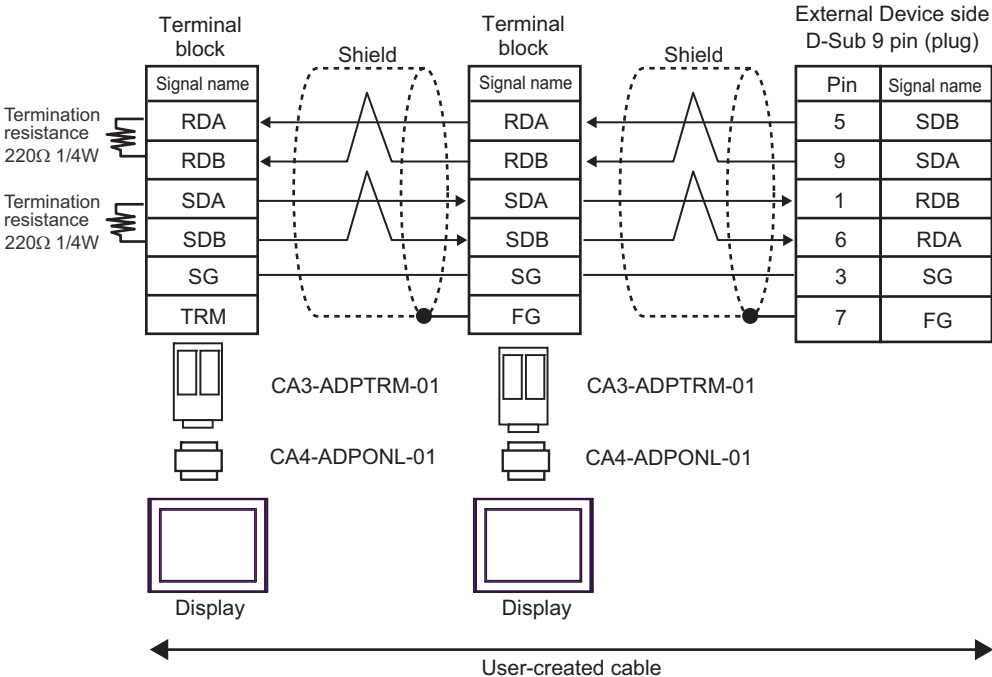
14B)



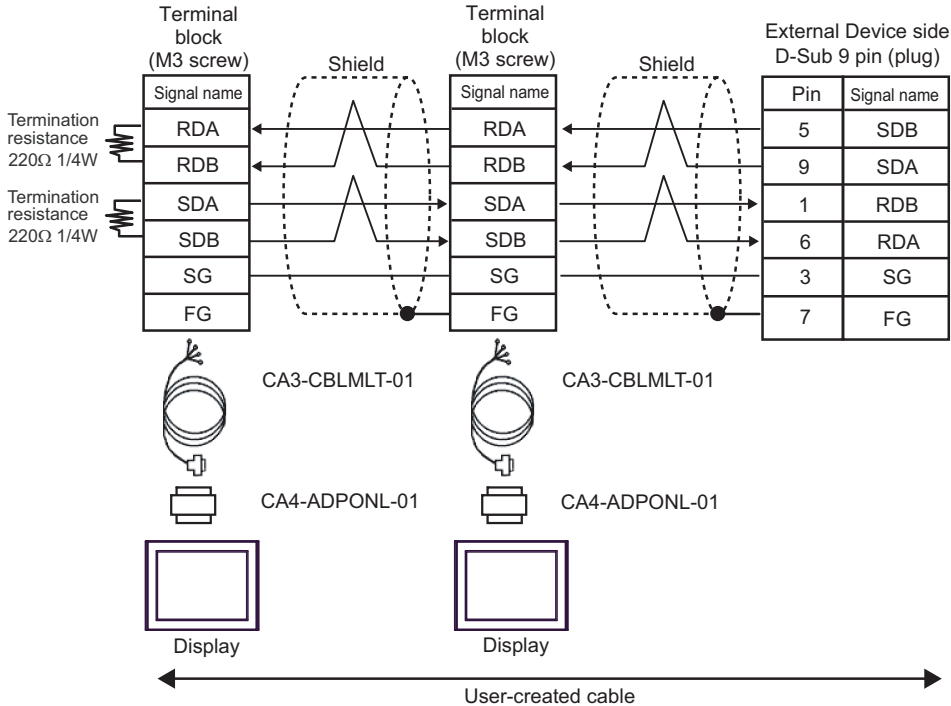
14C)



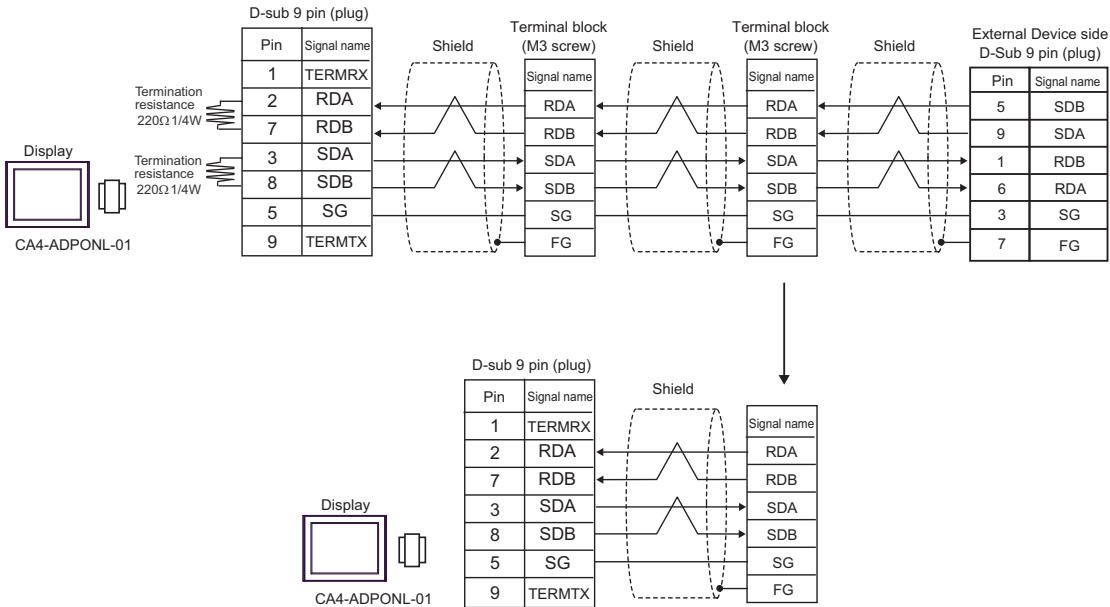
14D)



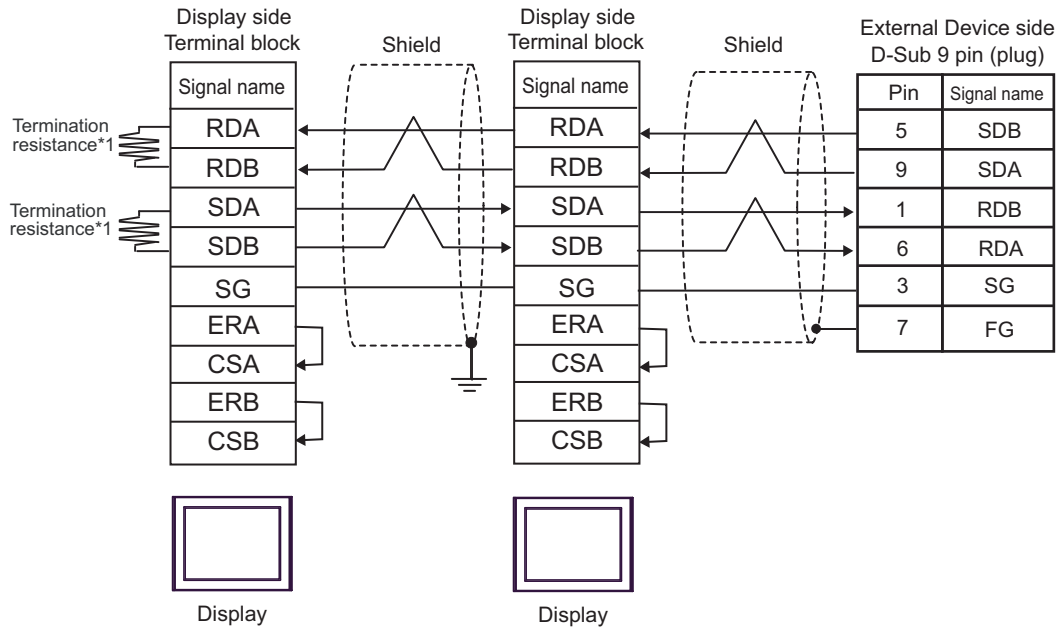
14E)



14F)



14G)

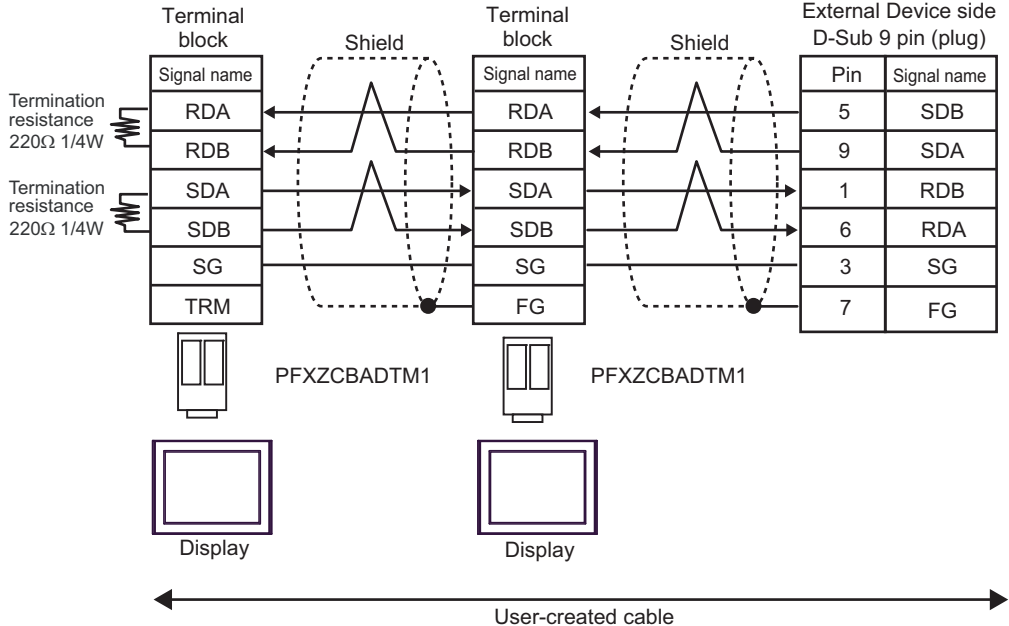


- *1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

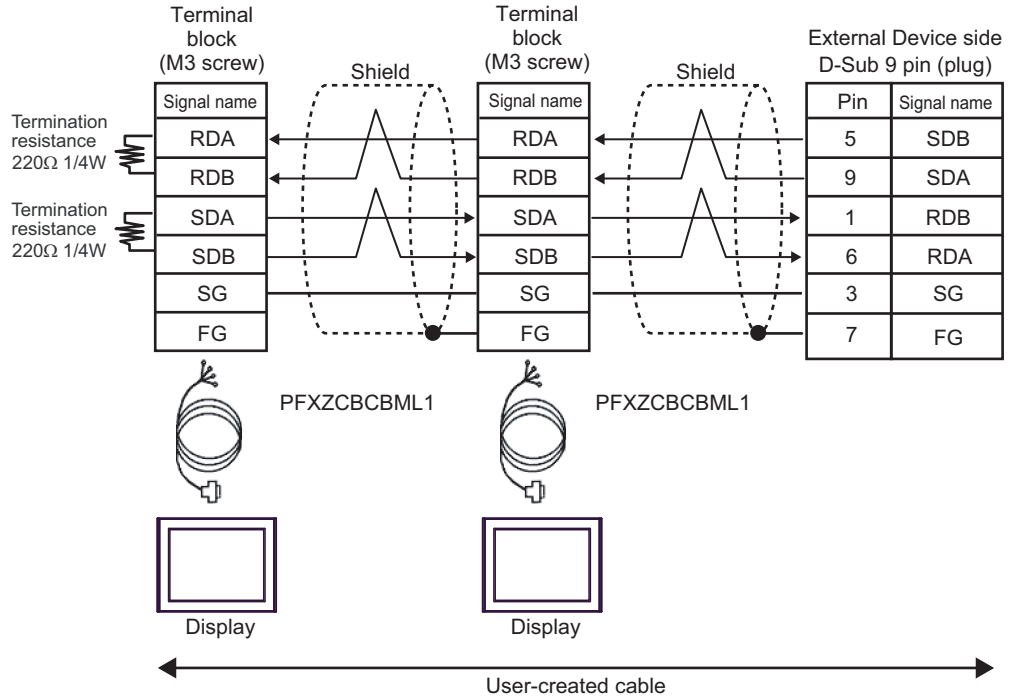
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:1 connection.

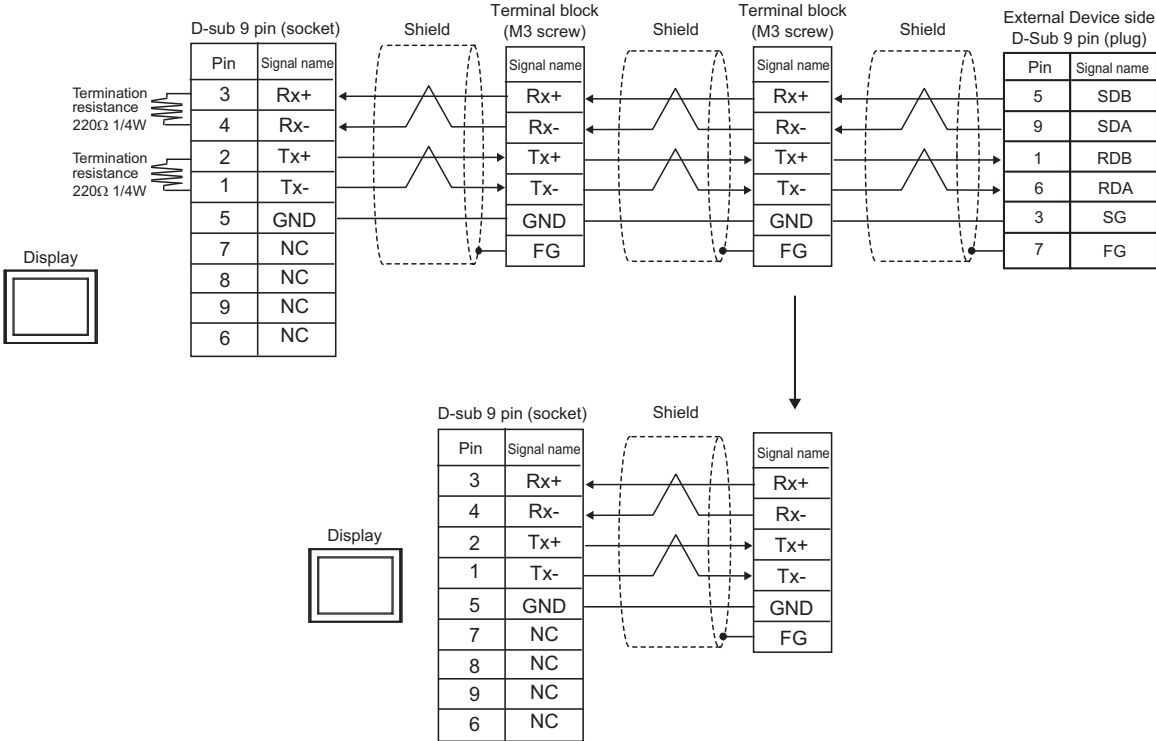
14H)



14I)



14J)

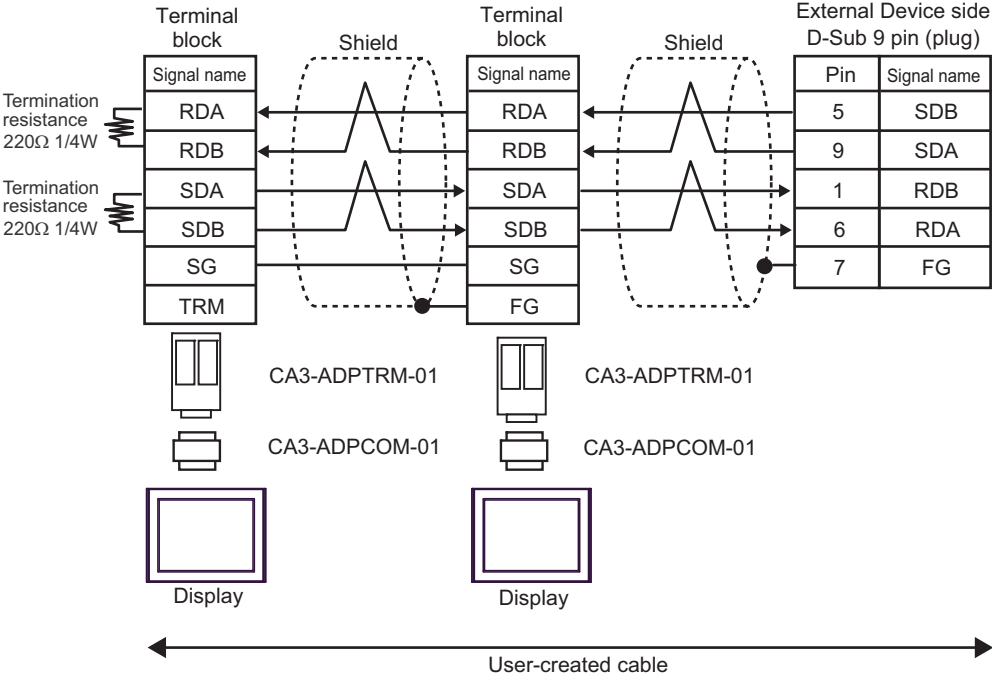


Cable Diagram 15

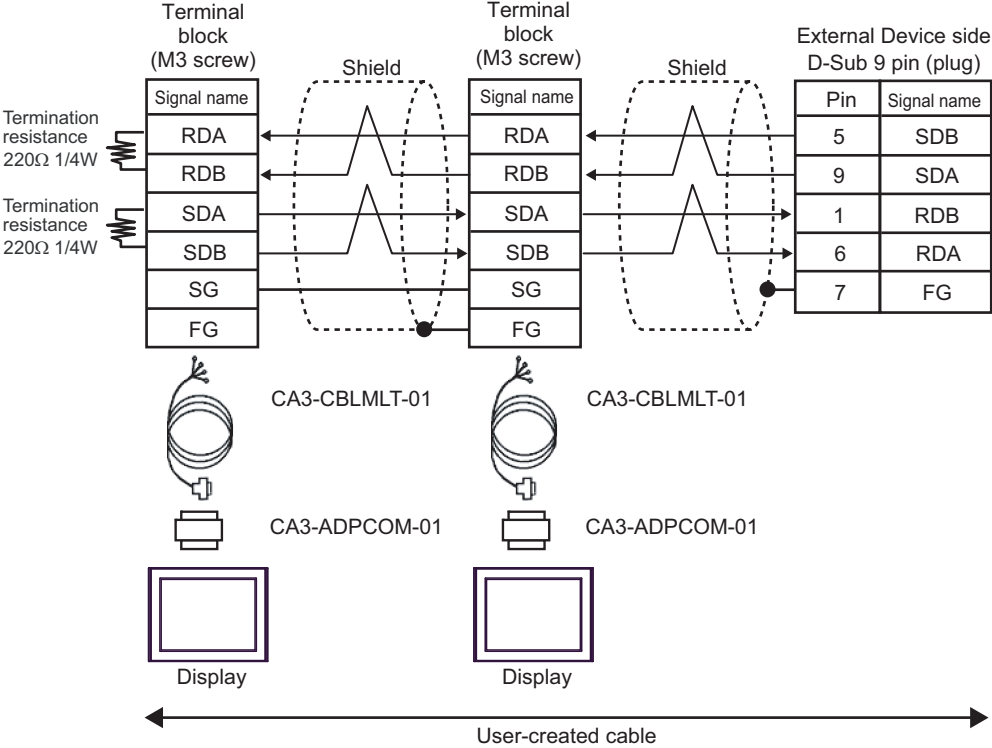
Display (Connection Port)	Cable		Notes
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	15A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m max
	15B	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	15C	User-created cable	
GP3000* ⁴ (COM2)	15D	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + User-created cable	Cable length: 500m max
	15E	Online adapter by Pro-face CA4-ADPONL-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	15F	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	15G	User-created cable	Cable length: 500m max
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	15H	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	Cable length: 500m max
	15I	Multilink cable by Pro-face PFXZCBCBML1* ¹⁰ + User-created cable	
	15C	User-created cable	
PE-4000B* ¹¹ PS5000* ¹¹ PS6000 (Optional Interface)* ¹¹	15J	User-created cable	Cable length: 500m max

- *1 All GP3000 models except AGP-3302B
- *2 Except AST-3211A and AST-3302B
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)
☞ "■ IPC COM Port" (page 12)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 15A.
- *10 When using a Multilink Cable (CA3-CBLMLT-01) instead of the Multilink Cable, refer to Cable Diagram 15B.
- *11 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
☞ "■ IPC COM Port" (page 12)

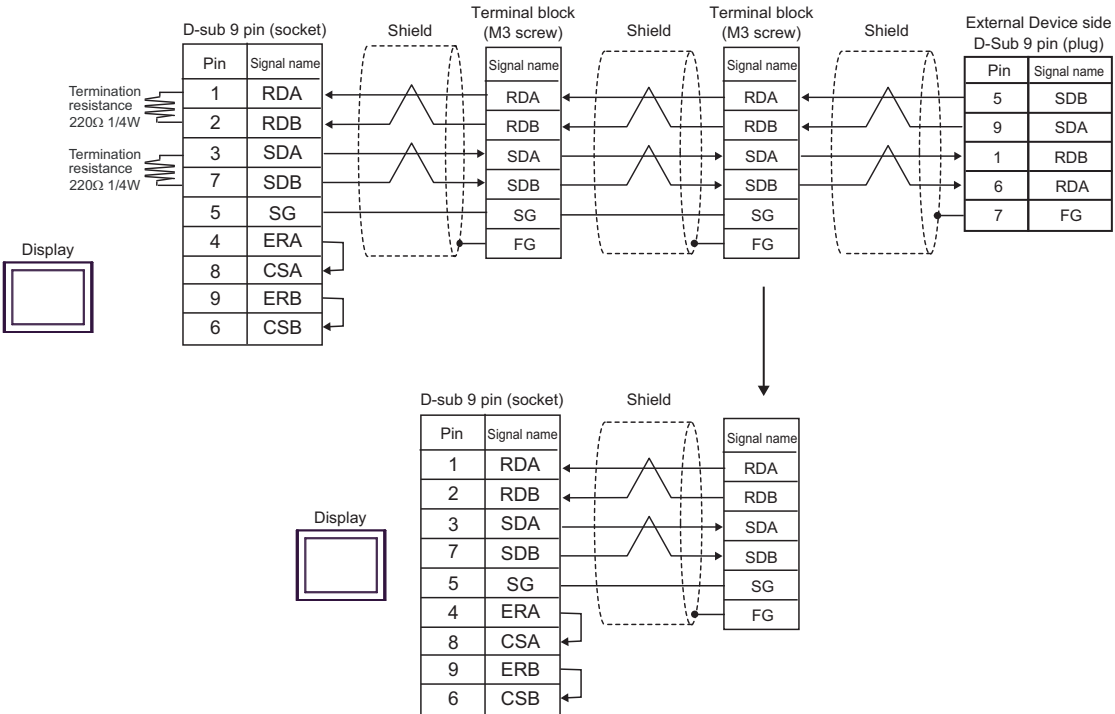
15A)



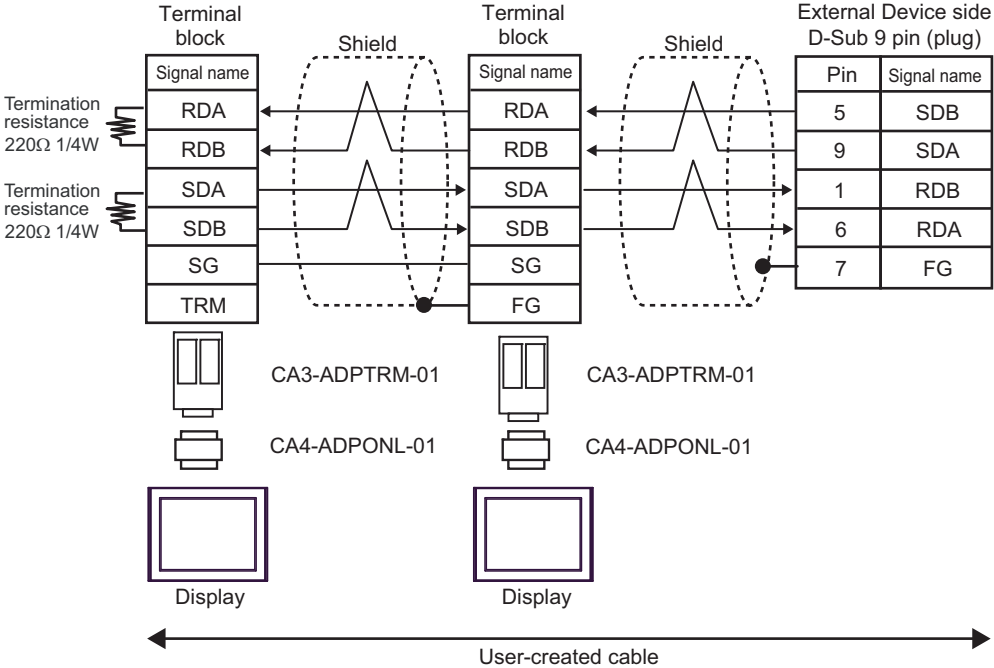
15B)



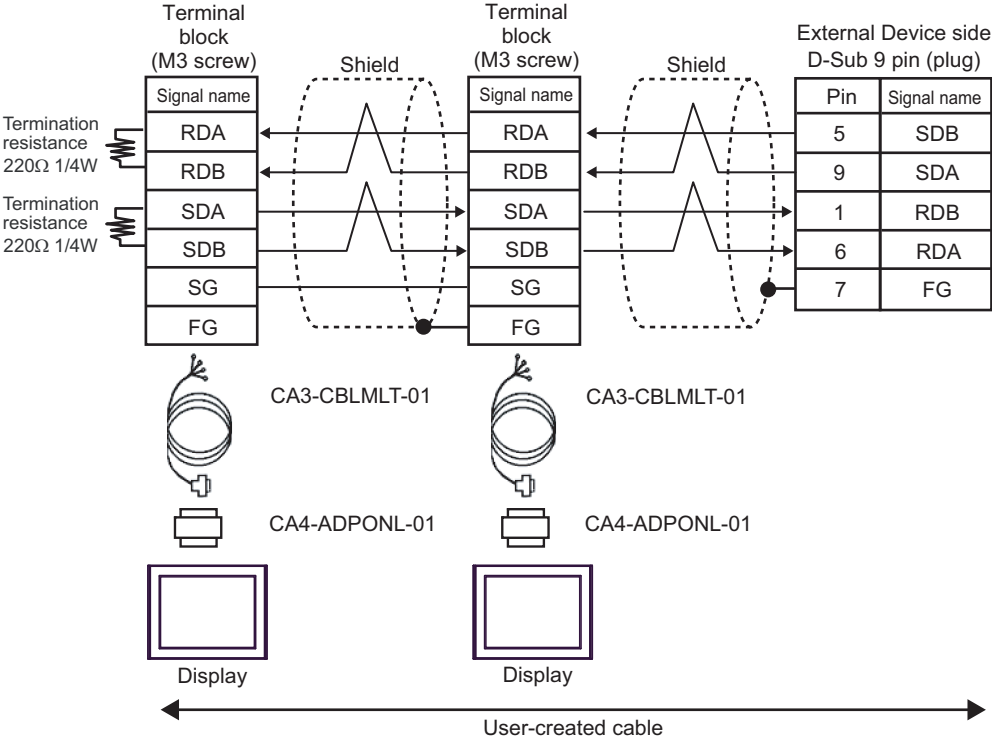
15C)



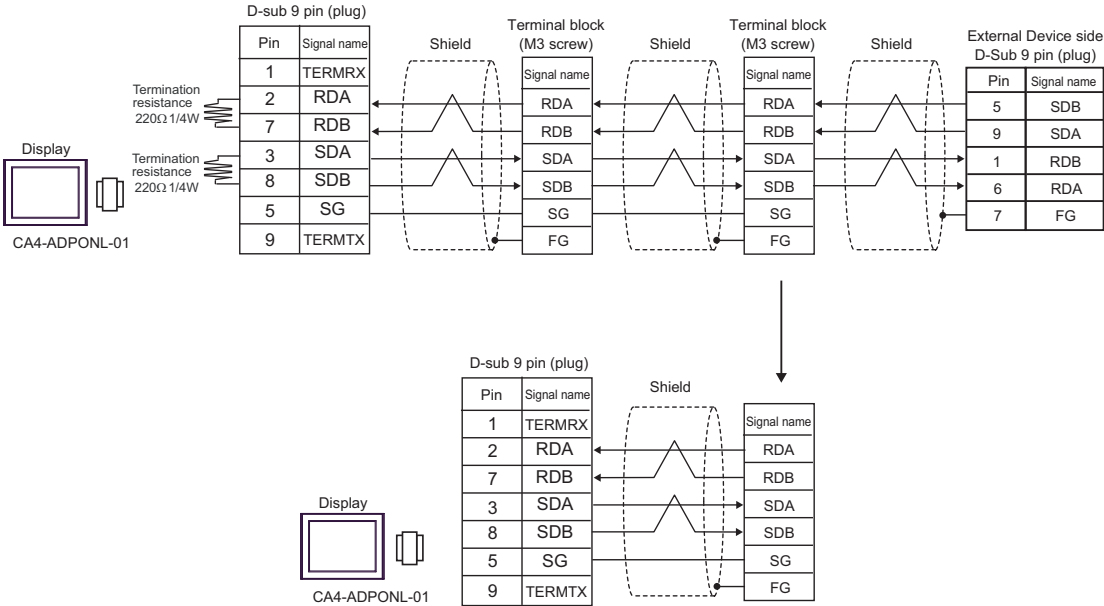
15D)



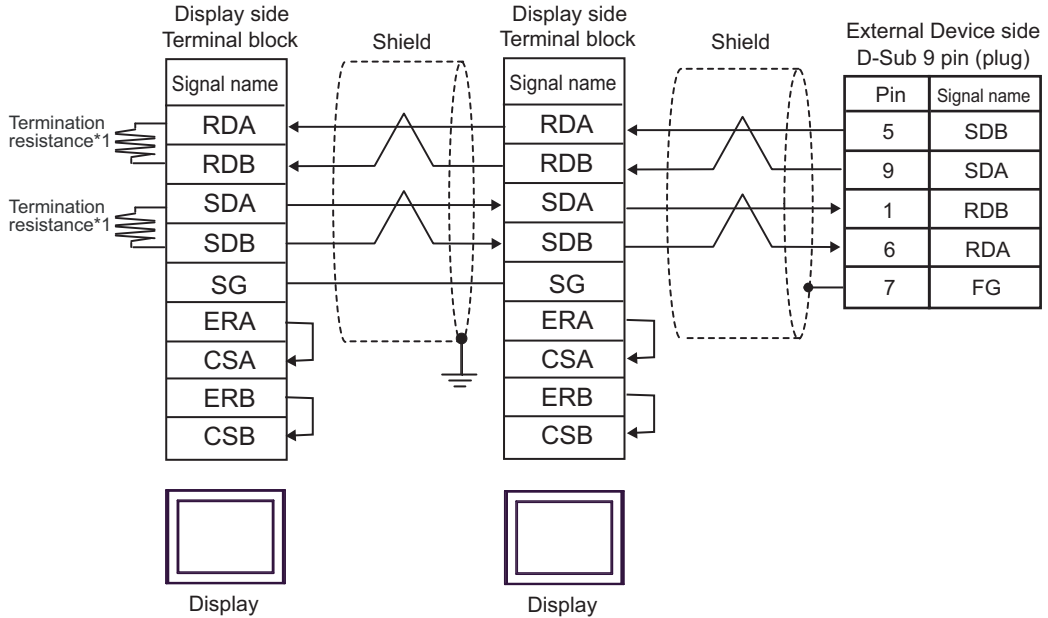
15E)



15F)



15G)

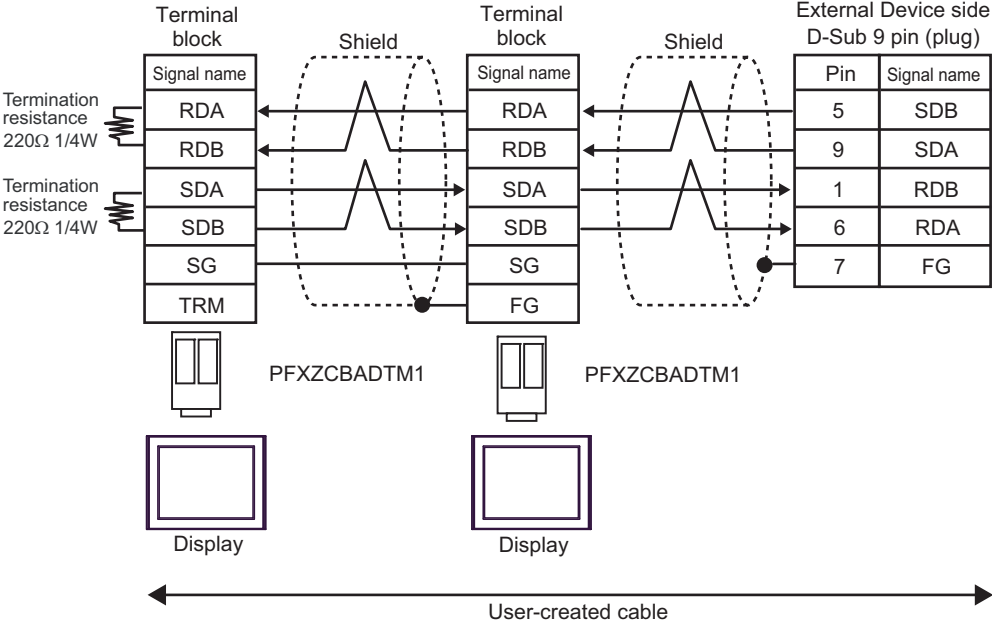


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

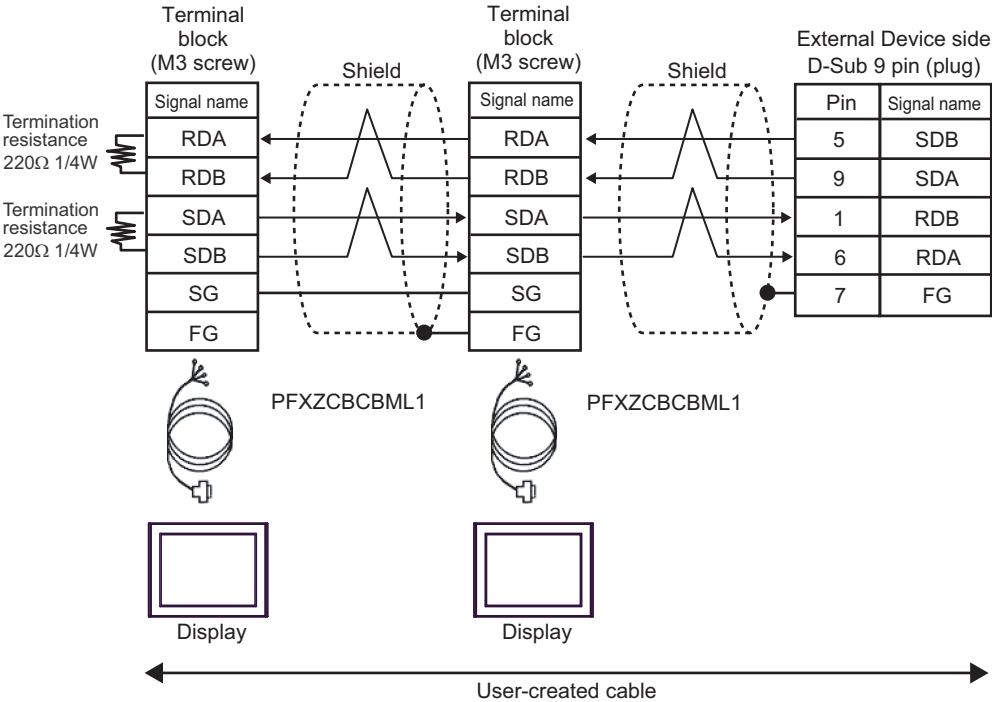
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:l connection.

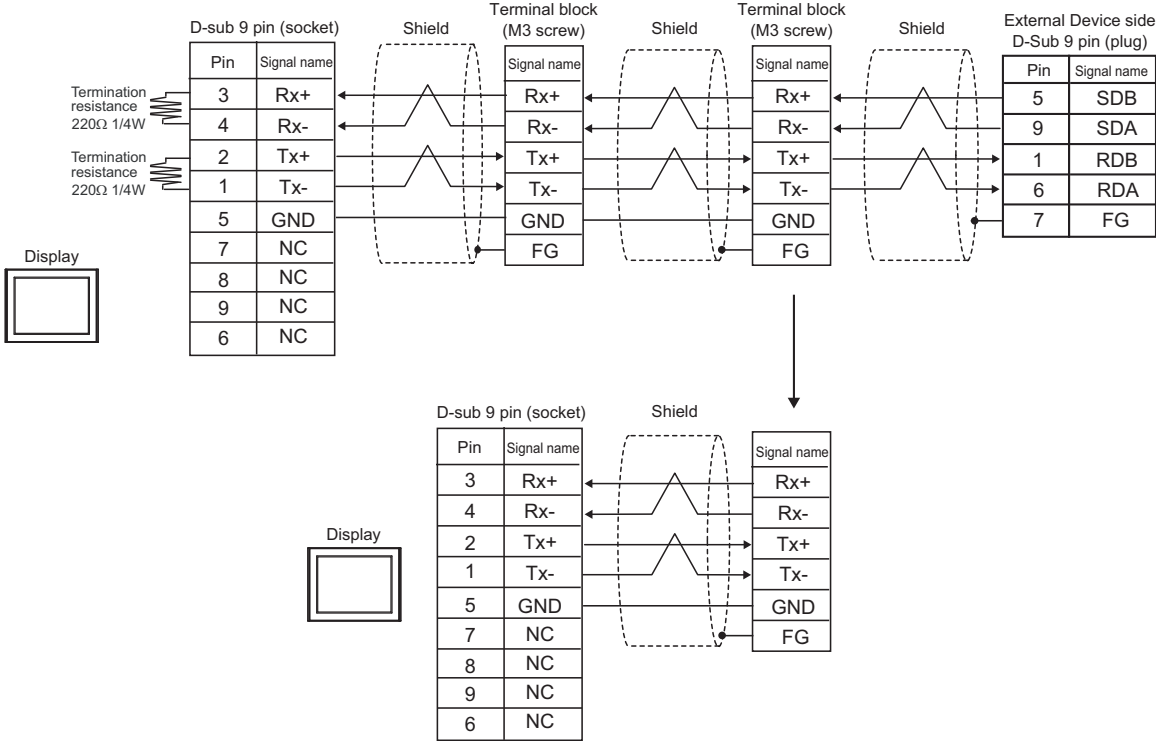
15H)



15I)



15J)

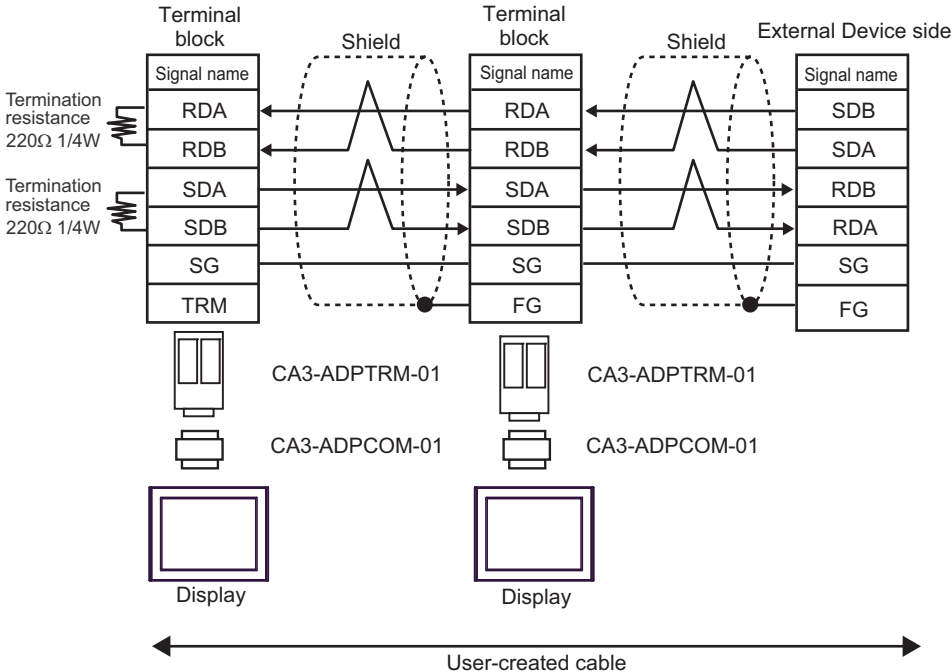


Cable Diagram 16

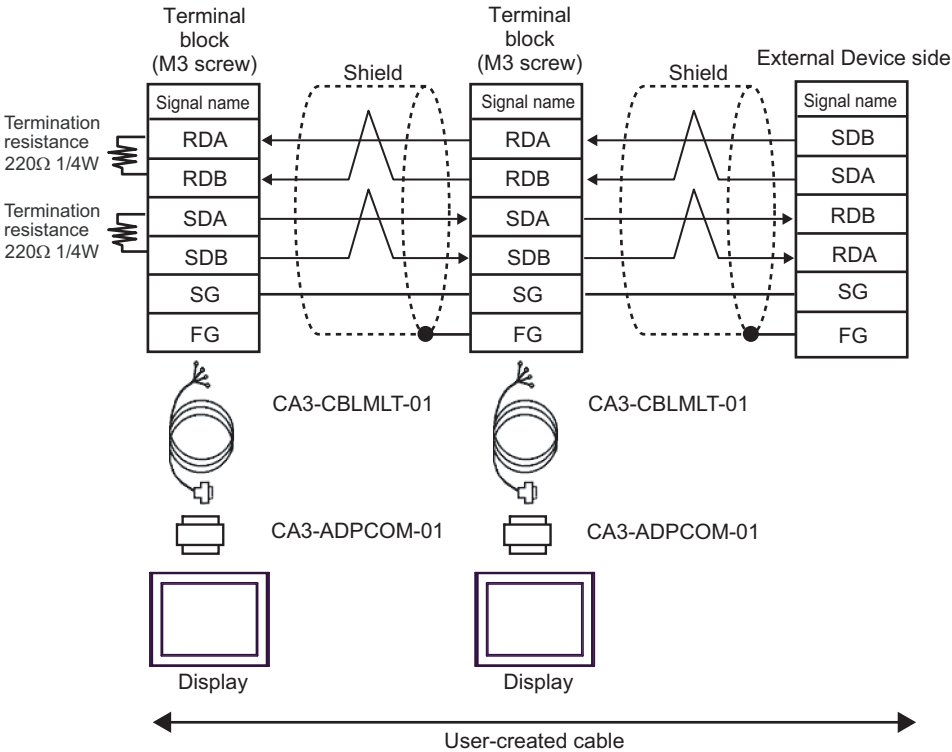
Display (Connection Port)	Cable		Notes
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	16A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m max
	16B	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	16C	User-created cable	
GP3000 * ⁴ (COM2)	16D	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + User-created cable	Cable length: 500m max
	16E	Online adapter by Pro-face CA4-ADPONL-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	16F	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	16G	User-created cable	Cable length: 500m max
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	16H	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	Cable length: 500m max
	16I	Multilink cable by Pro-face PFXZCBCBML1* ¹⁰ + User-created cable	
	16C	User-created cable	
PE-4000B* ¹¹ PS5000* ¹¹ PS6000 (Optional Interface)* ¹¹	16J	User-created cable	Cable length: 500m max

- *1 All GP3000 models except AGP-3302B
- *2 Except AST-3211A and AST-3302B
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)
☞ "■ IPC COM Port" (page 12)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 16A.
- *10 When using a Multilink Cable (CA3-CBLMLT-01) instead of the Multilink Cable, refer to Cable Diagram 16B.
- *11 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
☞ "■ IPC COM Port" (page 12)

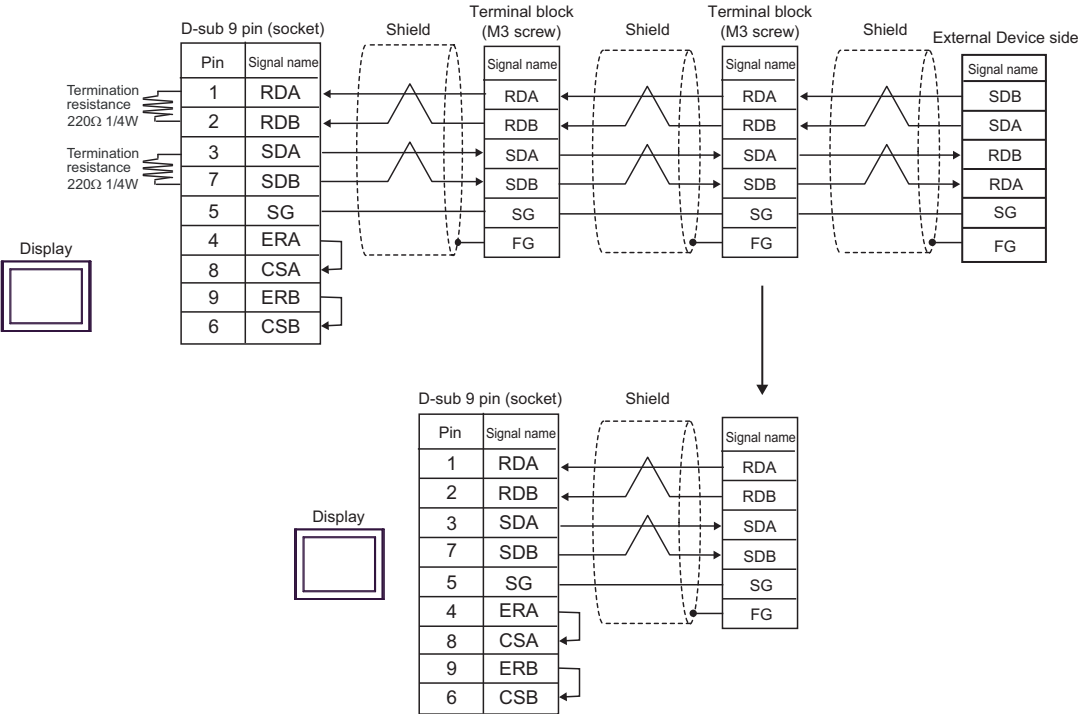
16A)



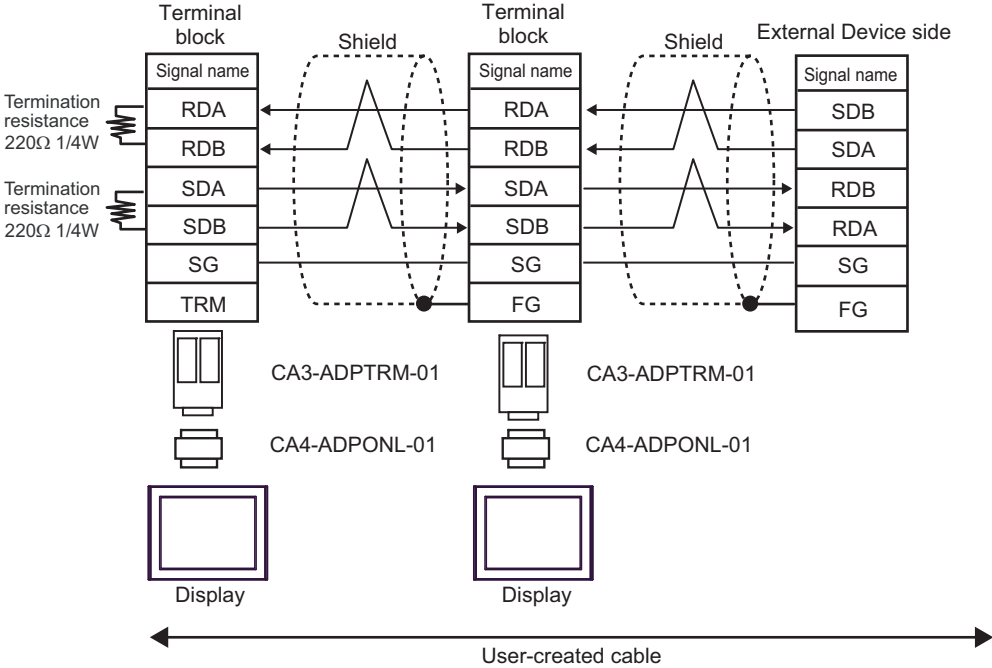
16B)



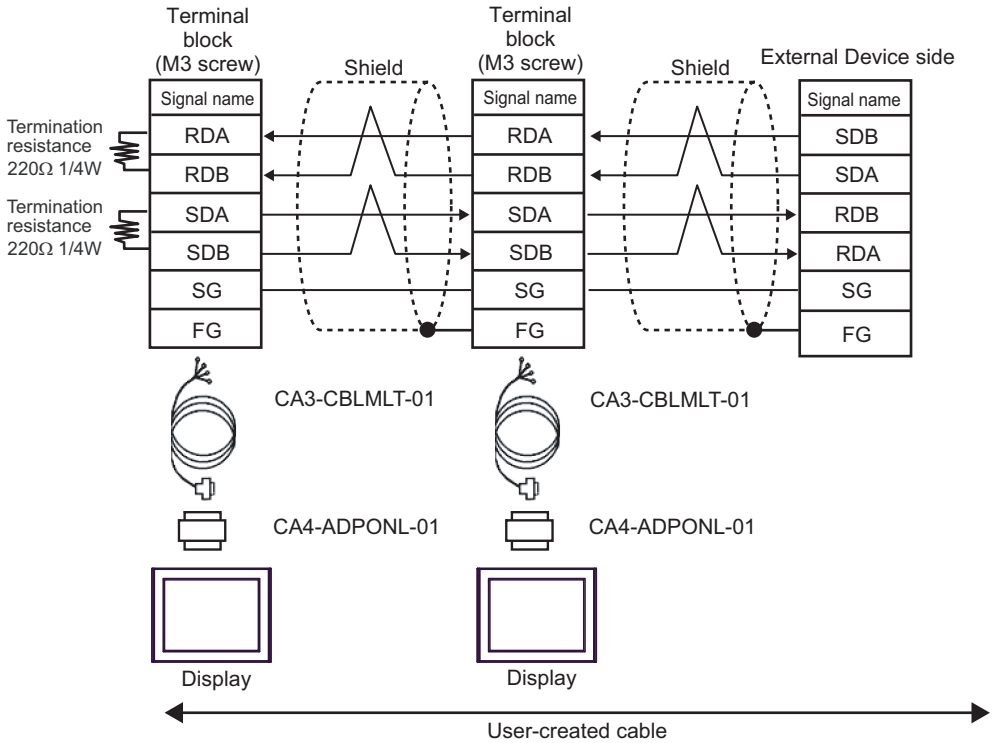
16C)



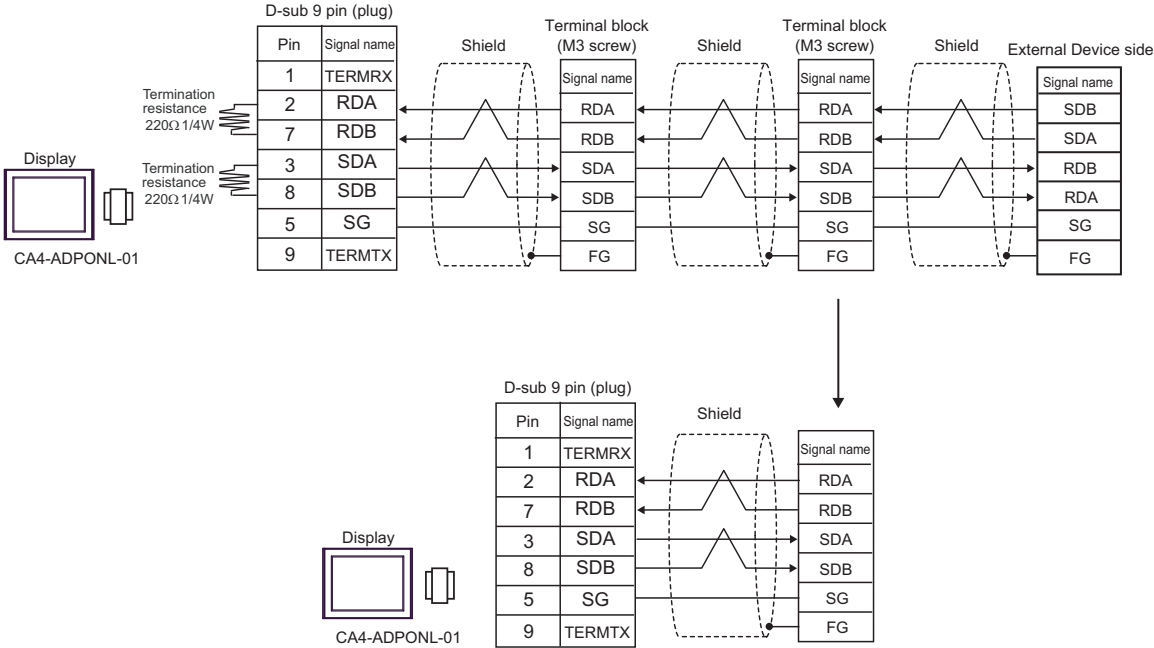
16D)



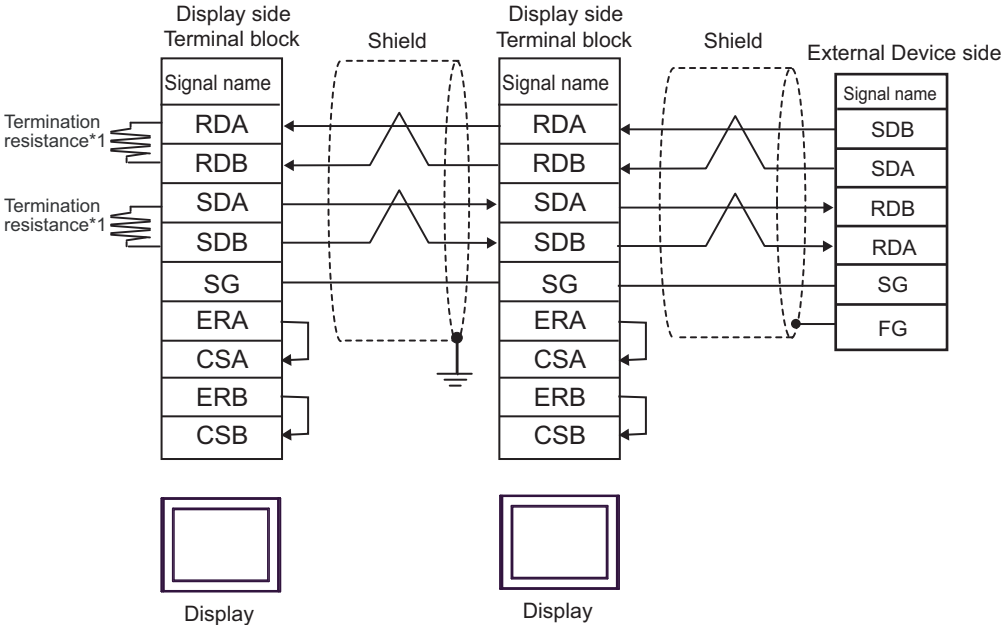
16E)



16F)



16G)

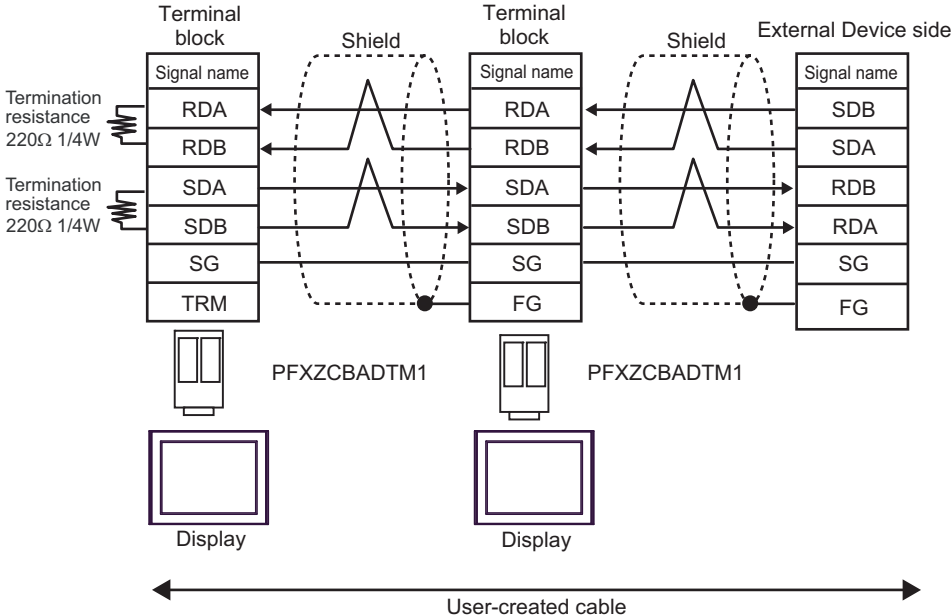


*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

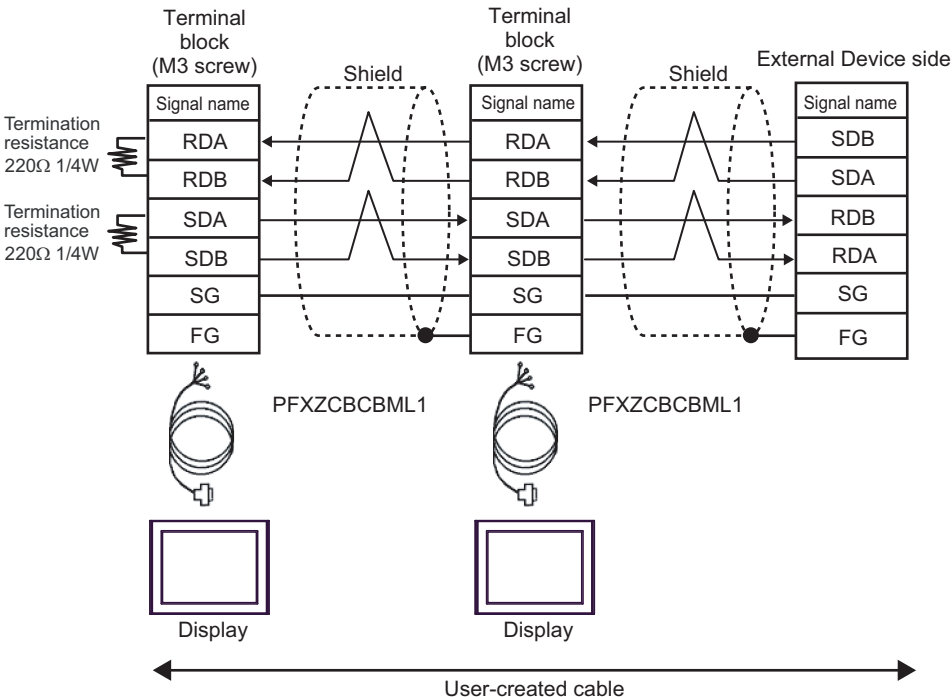
DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:1 connection.

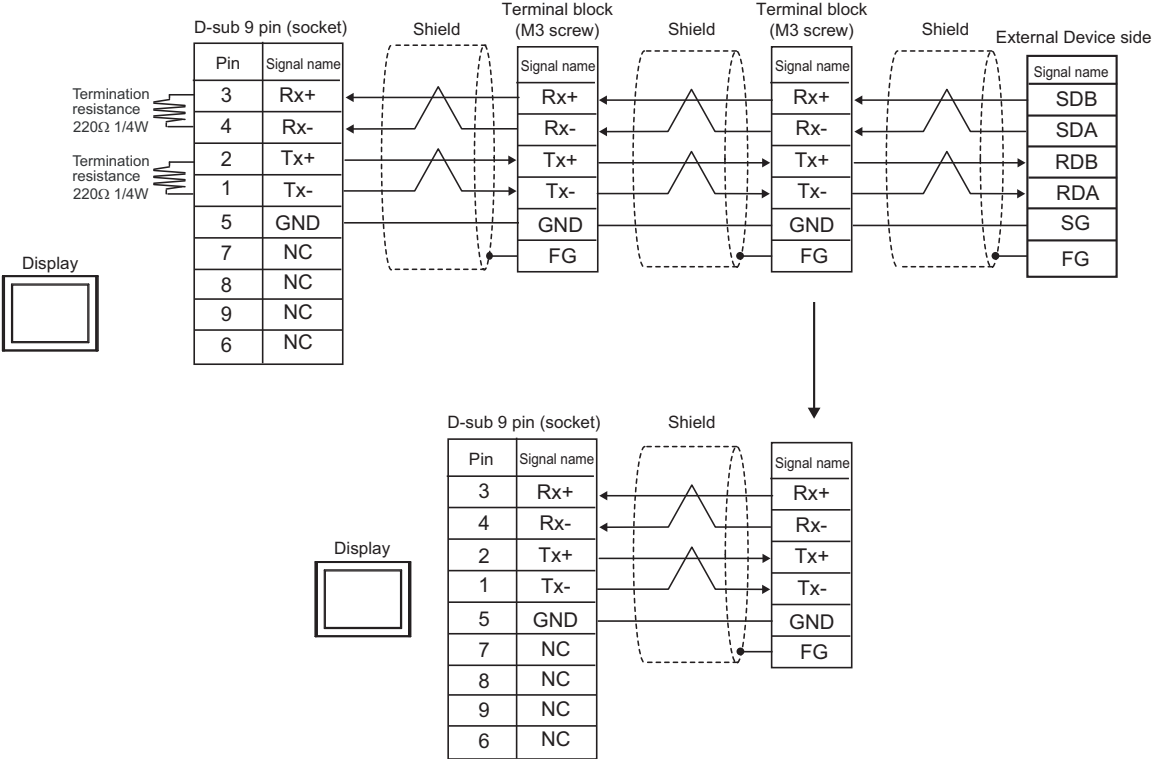
16H)



16I)



16J)



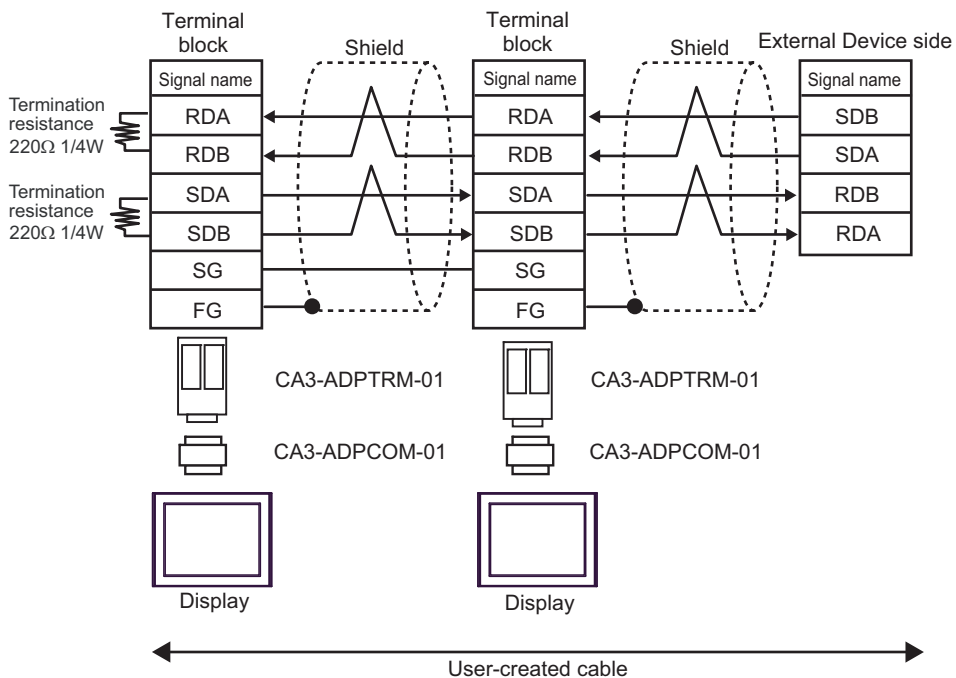
Cable Diagram 17

Display (Connection Port)	Cable		Notes
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	17A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m max
	17B	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	17C	User-created cable	
GP3000 * ⁴ (COM2)	17D	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + User-created cable	Cable length: 500m max
	17E	Online adapter by Pro-face CA4-ADPONL-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	17F	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	17G	User-created cable	Cable length: 500m max
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	17H	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	Cable length: 500m max
	17I	Multilink cable by Pro-face PFXZCBCBML1* ¹⁰ + User-created cable	
	17C	User-created cable	
PE-4000B* ¹¹ PS5000* ¹¹ PS6000 (Optional Interface)* ¹¹	17J	User-created cable	Cable length: 500m max

- *1 All GP3000 models except AGP-3302B
- *2 Except AST-3211A and AST-3302B
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)
 ☞ "■ IPC COM Port" (page 12)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 17A.
- *10 When using a Multilink Cable (CA3-CBLMLT-01) instead of the Multilink Cable, refer to Cable Diagram 17B.
- *11 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 ☞ "■ IPC COM Port" (page 12)

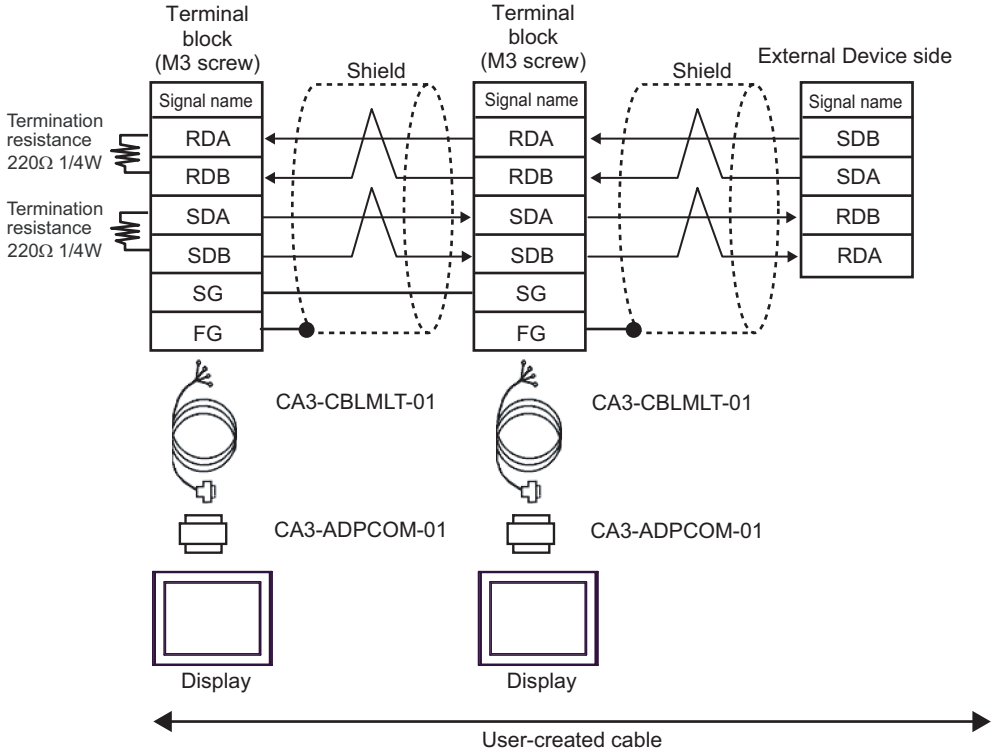
NOTE • When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

17A)



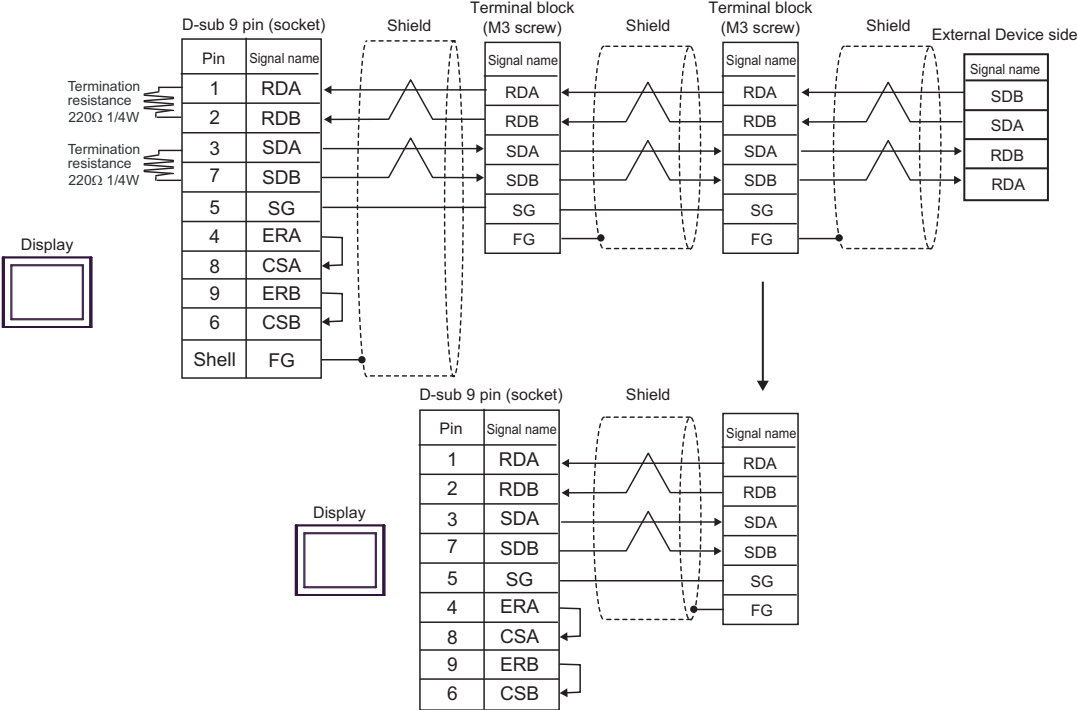
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17B)



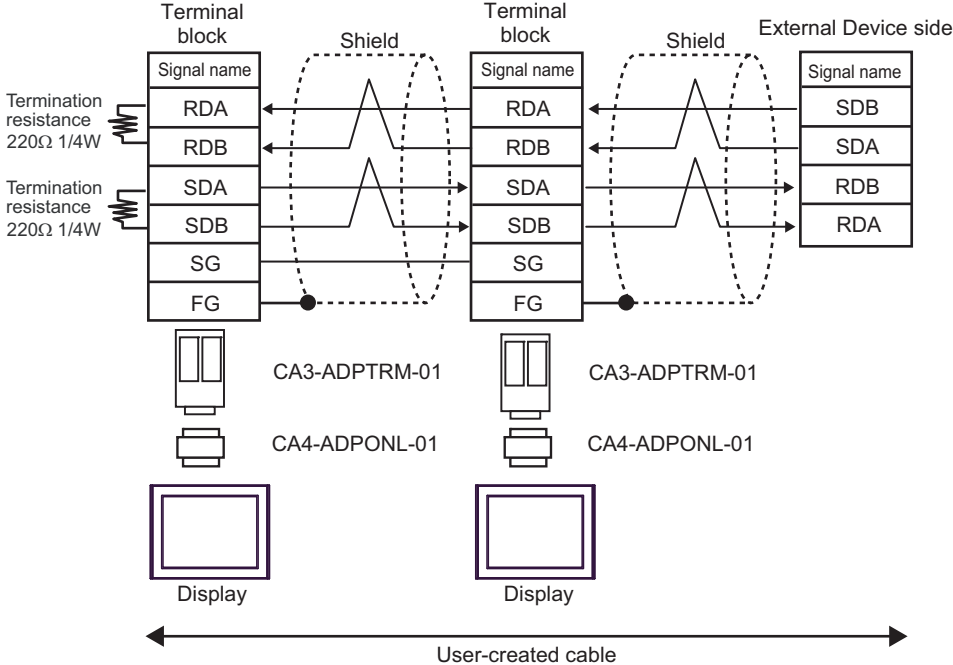
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17C)



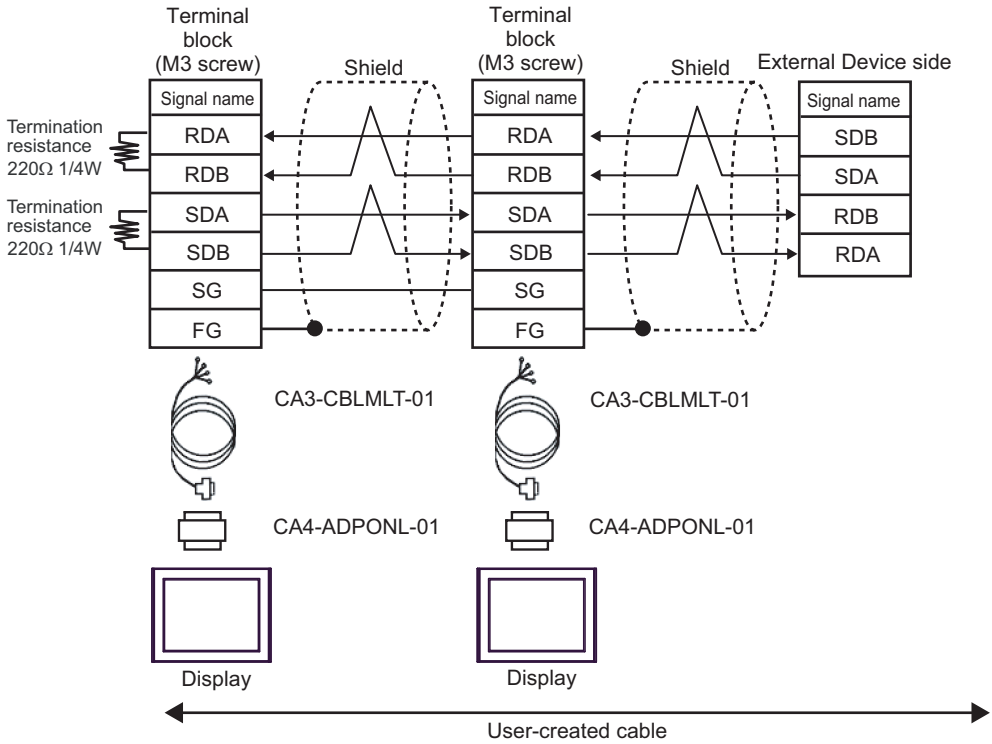
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17D)



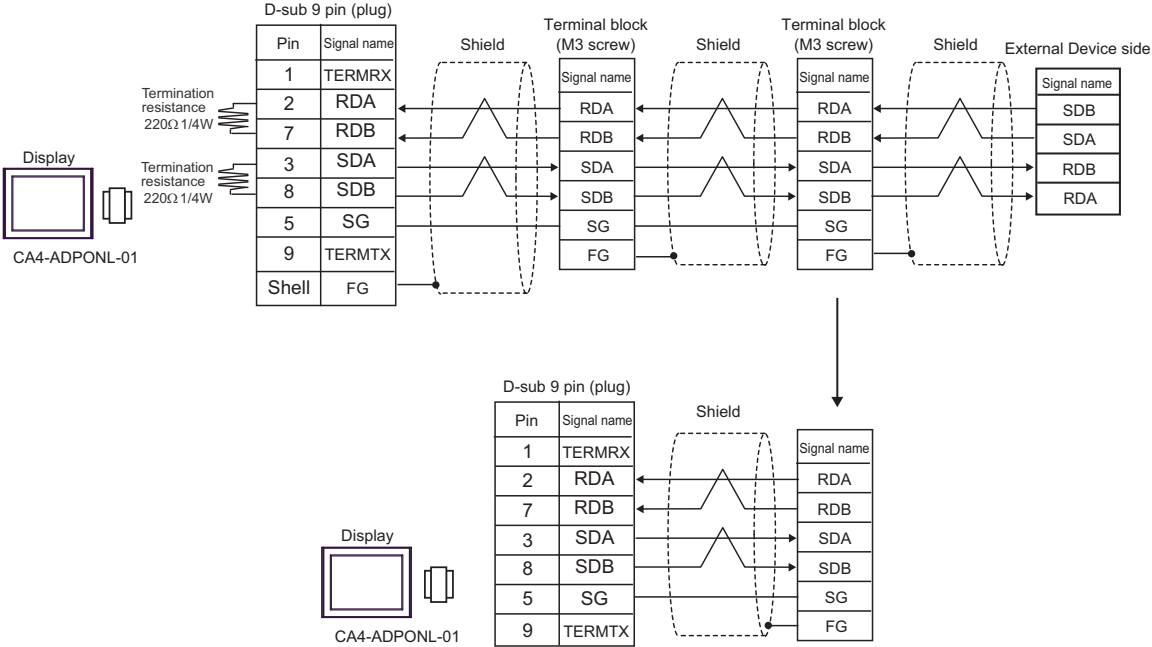
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17E)



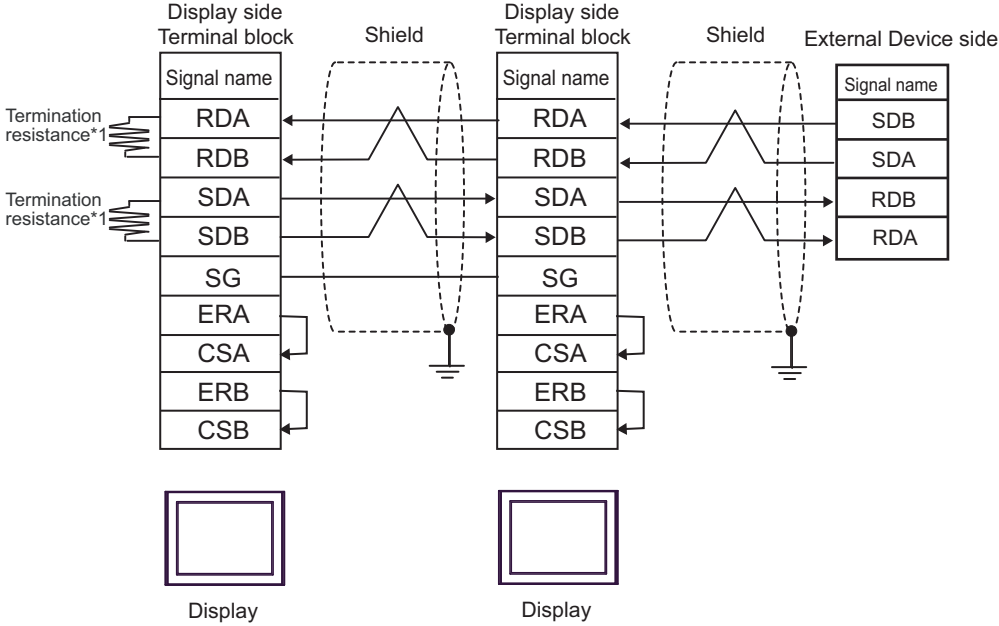
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17F)



NOTE • Turn on the termination resistor switch on the External Device located at the end.

17G)



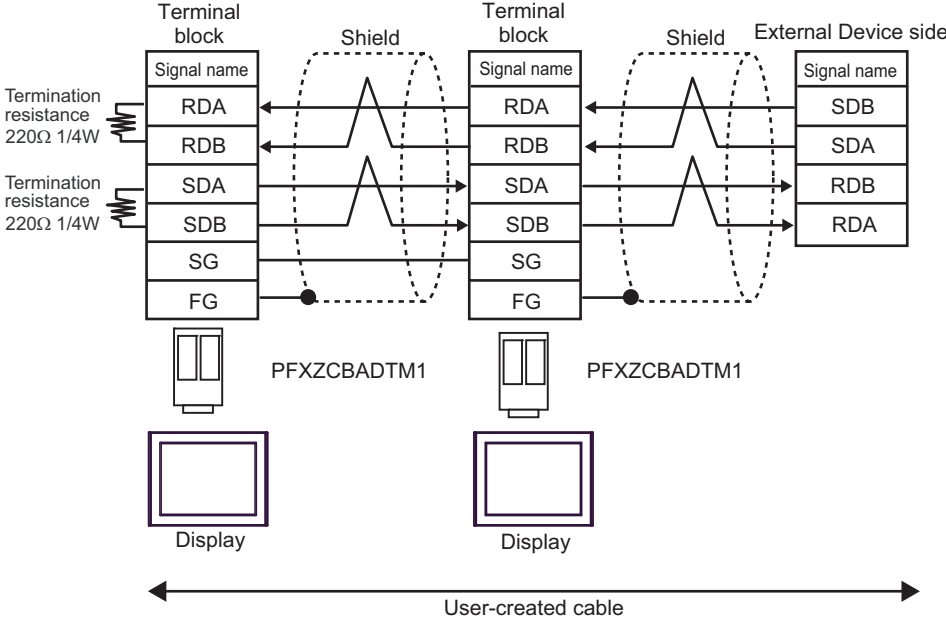
NOTE • Turn on the termination resistor switch on the External Device located at the end.

*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

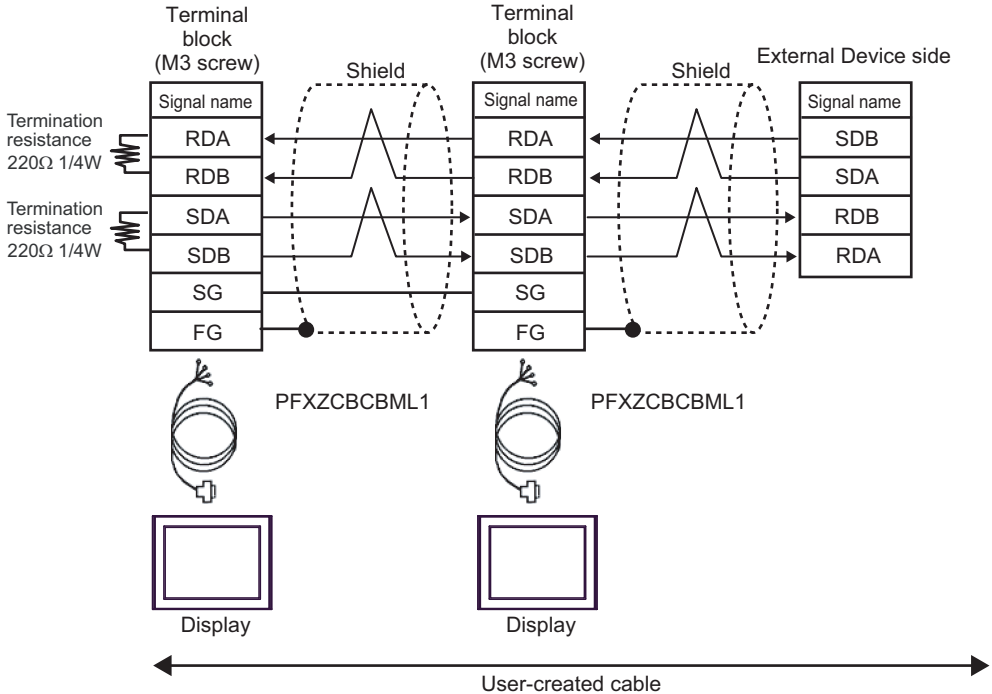
For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:1 connection.

17H)



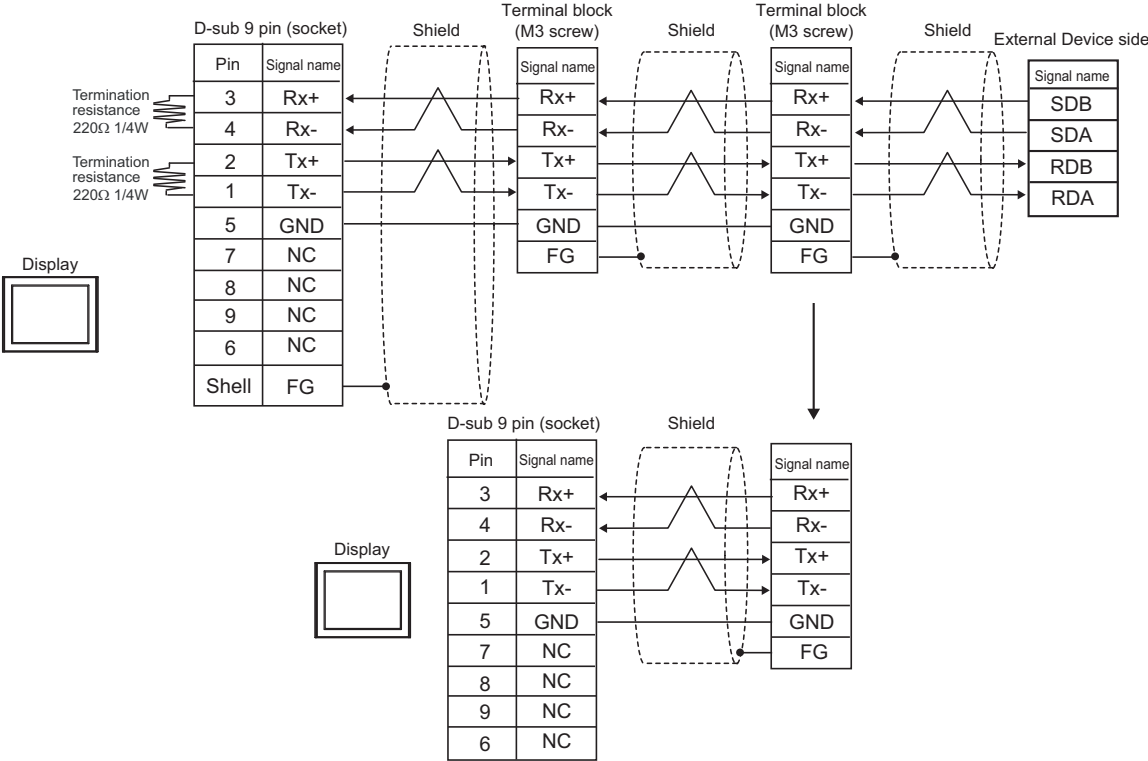
NOTE • Turn on the termination resistor switch on the External Device located at the end.

171)



NOTE • Turn on the termination resistor switch on the External Device located at the end.

17J)



NOTE • Turn on the termination resistor switch on the External Device located at the end.

Cable Diagram 18

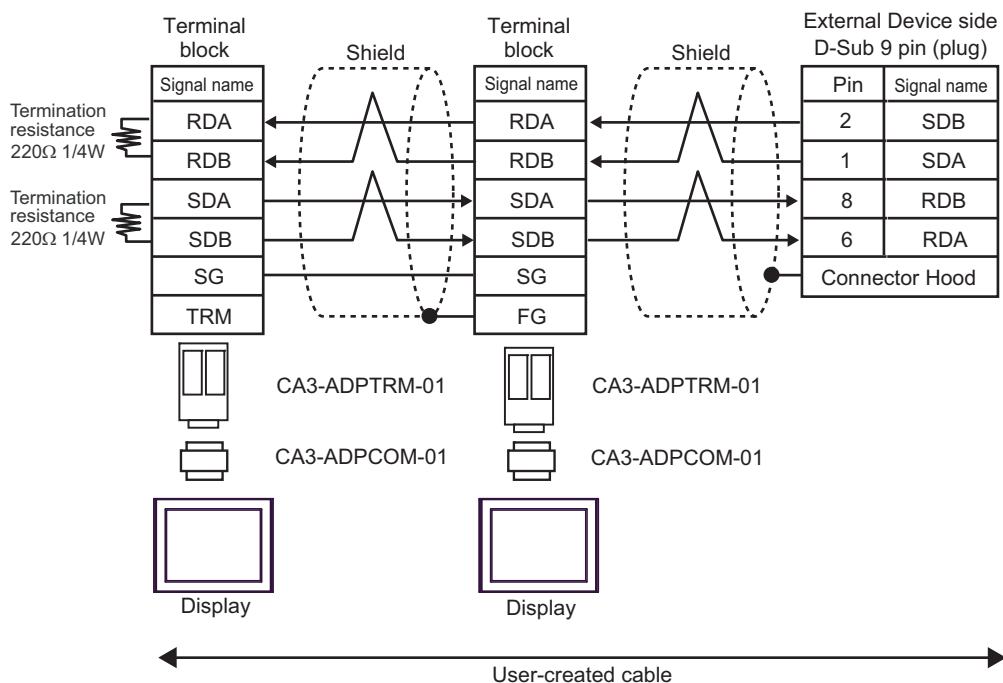
Display (Connection Port)	Cable		Notes
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	18A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m max
	18B	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	18C	User-created cable	
GP3000 * ⁴ (COM2)	18D	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + User-created cable	Cable length: 500m max
	18E	Online adapter by Pro-face CA4-ADPONL-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	18F	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	18G	User-created cable	Cable length: 500m max
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	18H	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	Cable length: 500m max
	18I	Multilink cable by Pro-face PFXZCBCBMLI* ¹⁰ + User-created cable	
	18C	User-created cable	
PE-4000B* ¹¹ PS5000* ¹¹ PS6000 (Optional Interface)* ¹¹	18J	User-created cable	Cable length: 500m max

- *1 All GP3000 models except AGP-3302B
- *2 Except AST-3211A and AST-3302B
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)
 ☞ "■ IPC COM Port" (page 12)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 18A.
- *10 When using a Multilink Cable (CA3-CBLMLT-01) instead of the Multilink Cable, refer to Cable Diagram 18B.
- *11 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 ☞ "■ IPC COM Port" (page 12)

NOTE

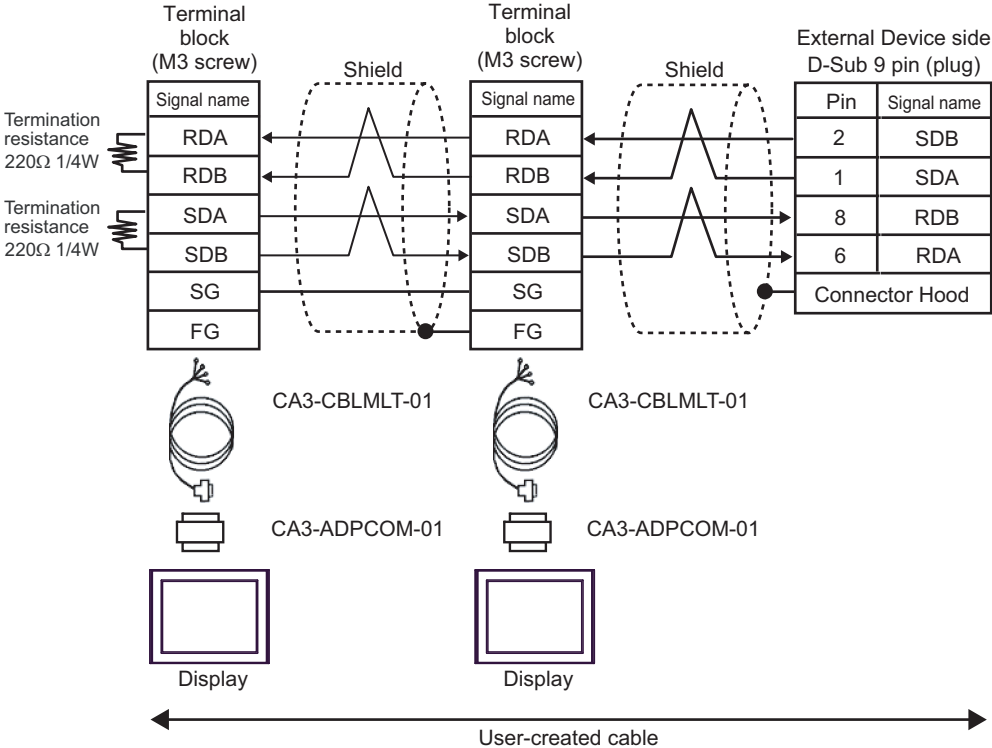
- When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

18A)

**NOTE**

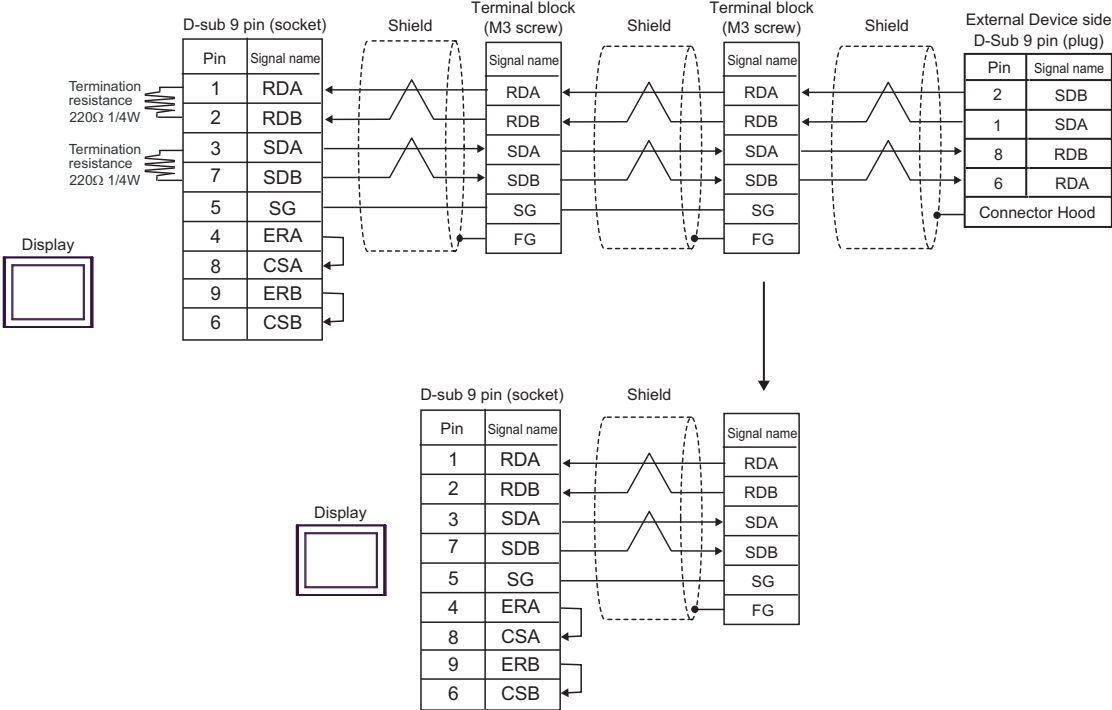
- Turn on the termination resistor switch on the External Device located at the end.

18B)



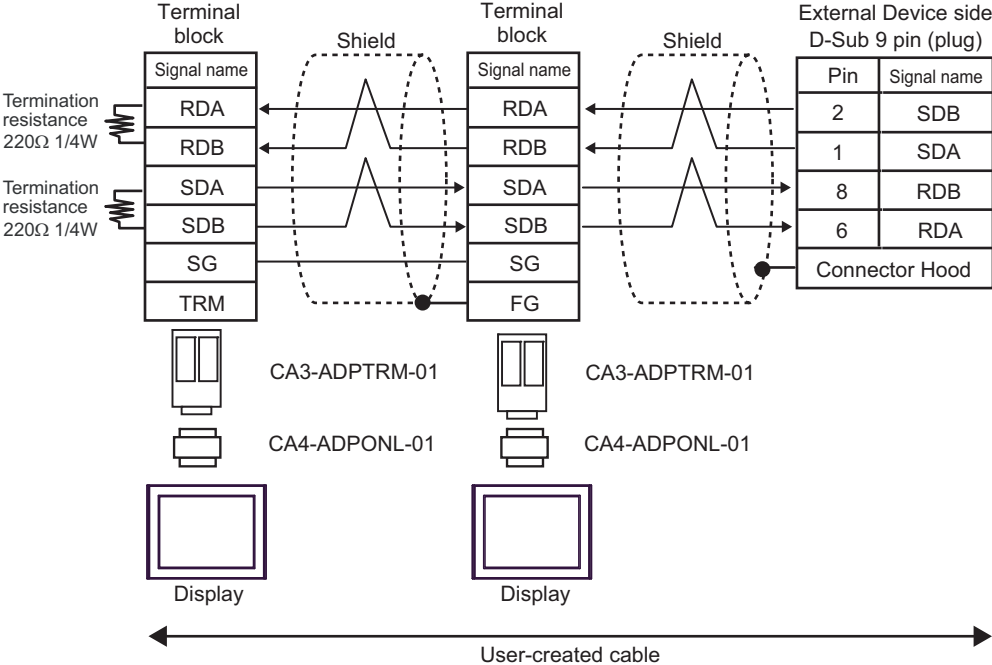
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18C)



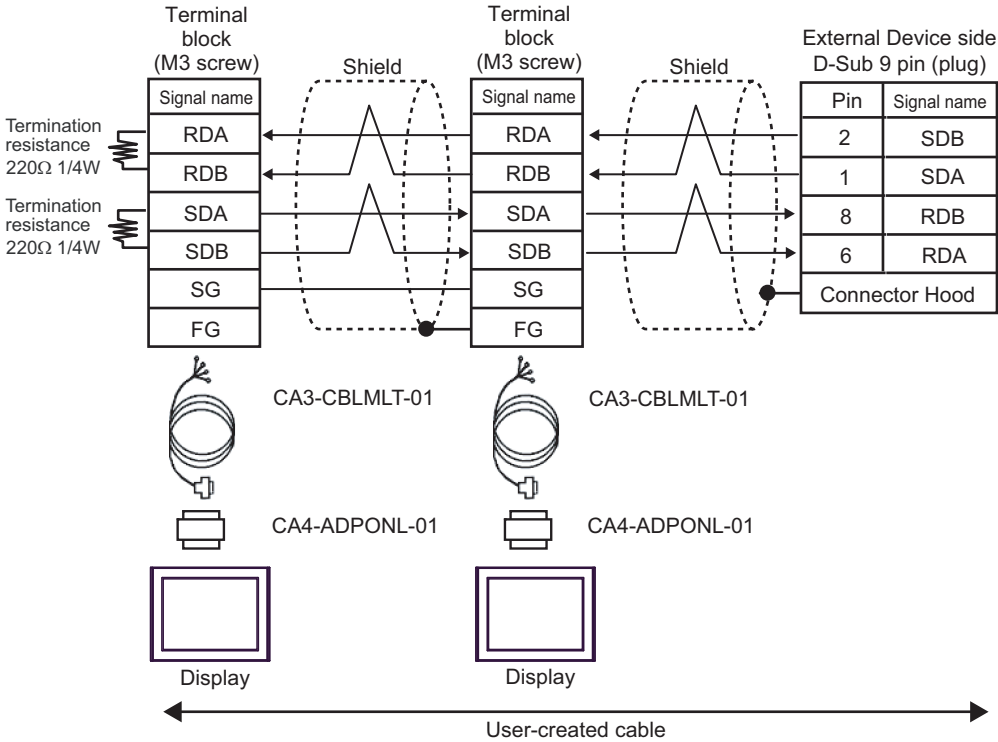
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18D)



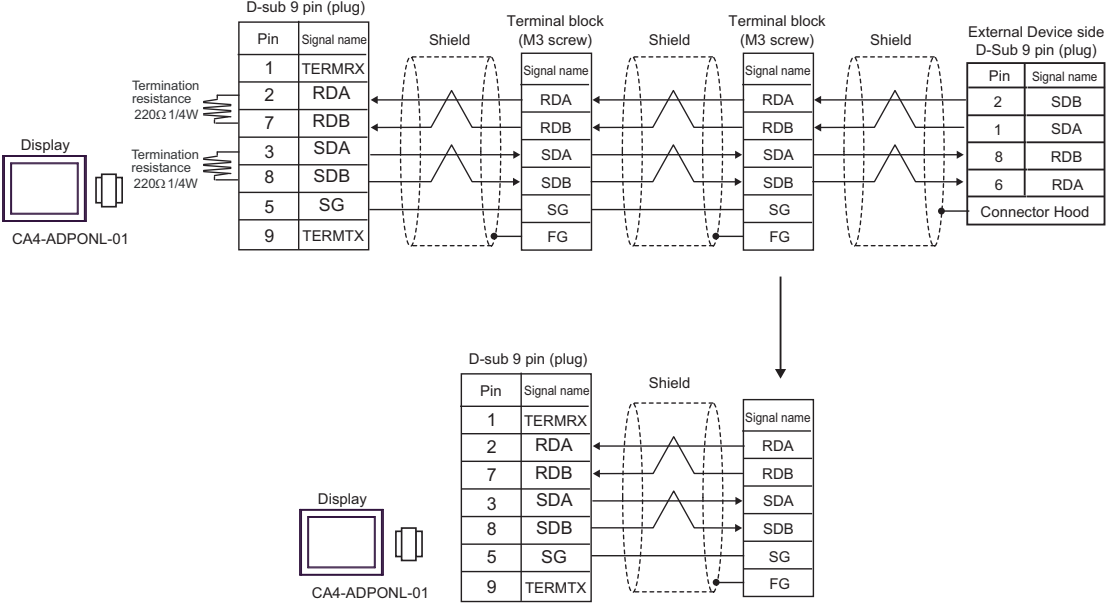
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18E)



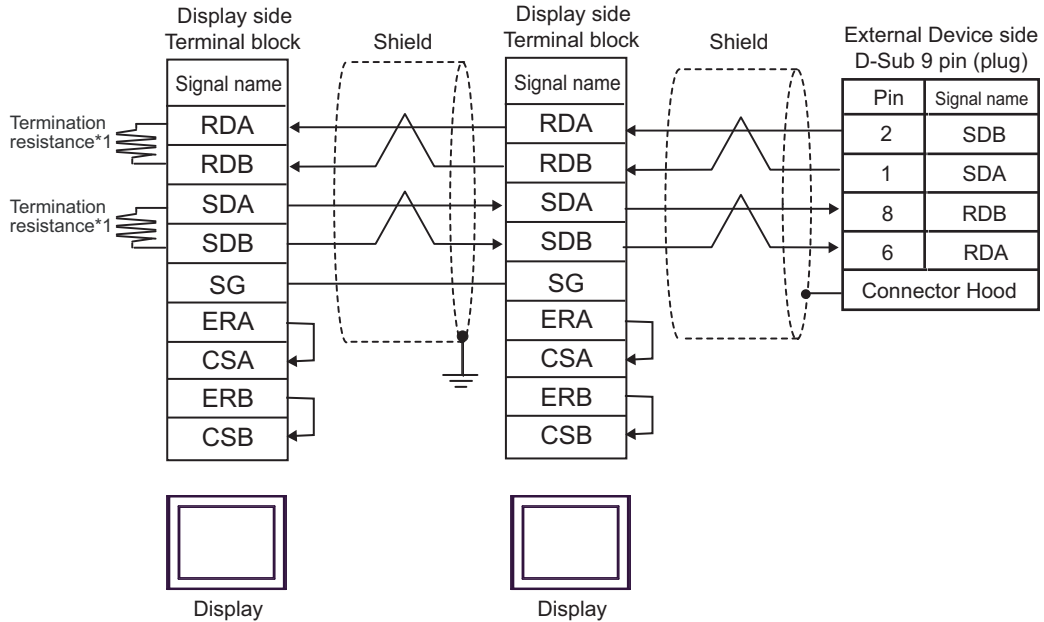
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18F)



NOTE • Turn on the termination resistor switch on the External Device located at the end.

18G)

**NOTE**

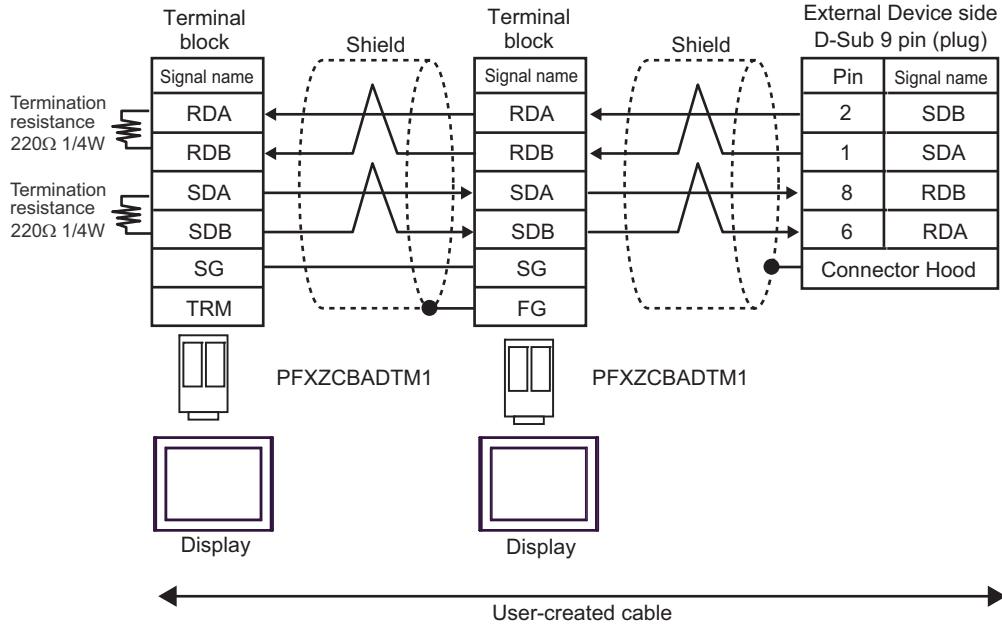
- Turn on the termination resistor switch on the External Device located at the end.

*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

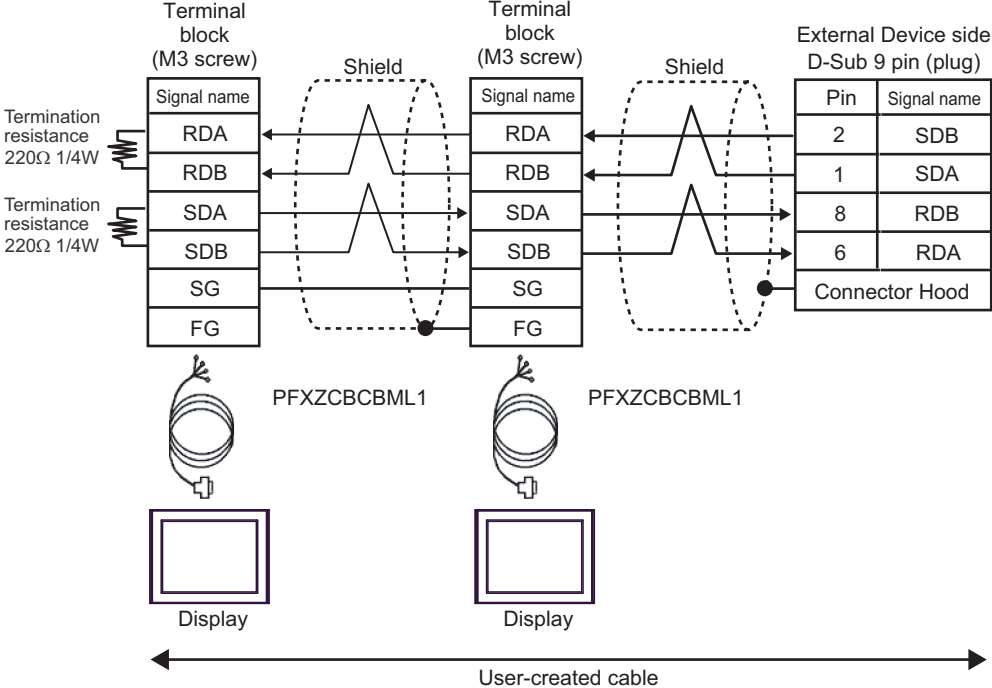
For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:l connection.

18H)



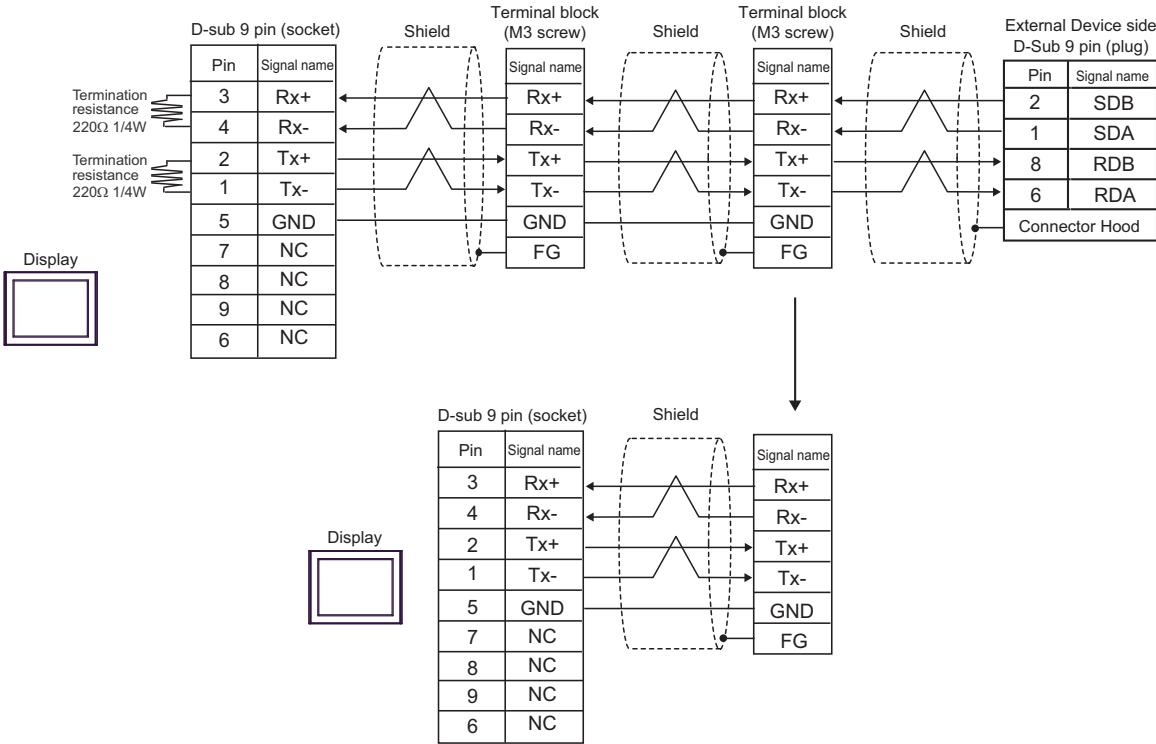
NOTE • Turn on the termination resistor switch on the External Device located at the end.

181)



NOTE • Turn on the termination resistor switch on the External Device located at the end.

18J)



NOTE • Turn on the termination resistor switch on the External Device located at the end.

Cable Diagram 19

Display (Connection Port)	Cable		Notes
GP3000* ¹ (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) GP-Rear Module (COM1) ST3000* ² (COM2) LT3000 (COM1) IPC* ³	19A	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m max
	19B	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	19C	User-created cable	
GP3000 * ⁴ (COM2)	19D	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-0 + User-created cable	Cable length: 500m max
	19E	Online adapter by Pro-face CA4-ADPONL-01 + Multilink cable by Pro-face CA3-CBLMLT-01 + User-created cable	
	19F	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1) GP-4116T (COM1)	19G	User-created cable	Cable length: 500m max
GP4000* ⁵ (COM2) GP-4201T (COM1) SP5000* ⁶ (COM1/2) SP-5B00 (COM2) ST6000* ⁷ (COM2) ST-6200 (COM1) STM6000 (COM1) STC6000 (COM1) ET6000* ⁸ (COM2) PS6000 (Basic Box) (COM1/2)	19H	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1* ⁹ + User-created cable	Cable length: 500m max
	19I	Multilink cable by Pro-face PFXZCBCBML1* ¹⁰ + User-created cable	
	19C	User-created cable	
PE-4000B* ¹¹ PS5000* ¹¹ PS6000 (Optional Interface)* ¹¹	19J	User-created cable	Cable length: 500m max

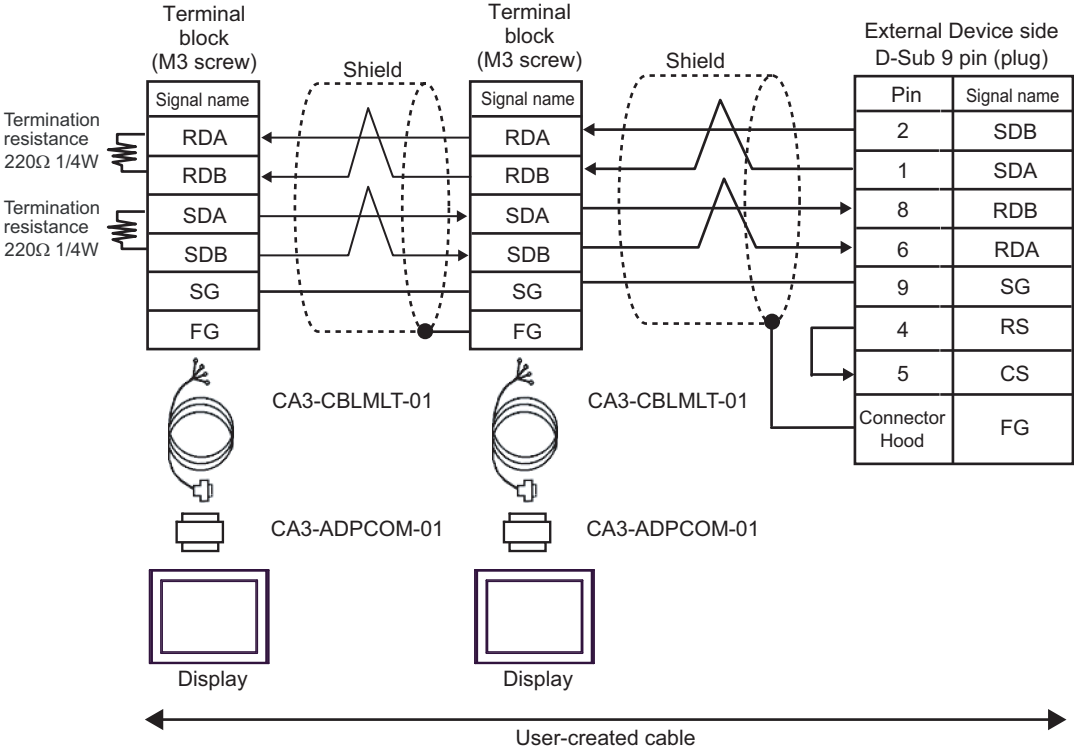
- *1 All GP3000 models except AGP-3302B
- *2 Except AST-3211A and AST-3302B
- *3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used. (Except PE-4000B, PS5000, and PS6000)
☞ "■ IPC COM Port" (page 12)
- *4 All GP3000 models except GP-3200 series and AGP-3302B
- *5 All GP4000 models except GP-4100 series, GP-4*01TM, GP-Rear Module, GP-4201T and GP-4*03T
- *6 Except SP-5B00
- *7 Except ST-6200
- *8 Due to the COM port specifications, flow control is not possible. Omit wiring the control pins on the Display side of the cable diagram.
- *9 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 19A.
- *10 When using a Multilink Cable (CA3-CBLMLT-01) instead of the Multilink Cable, refer to Cable Diagram 19B.
- *11 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
☞ "■ IPC COM Port" (page 12)

19A)



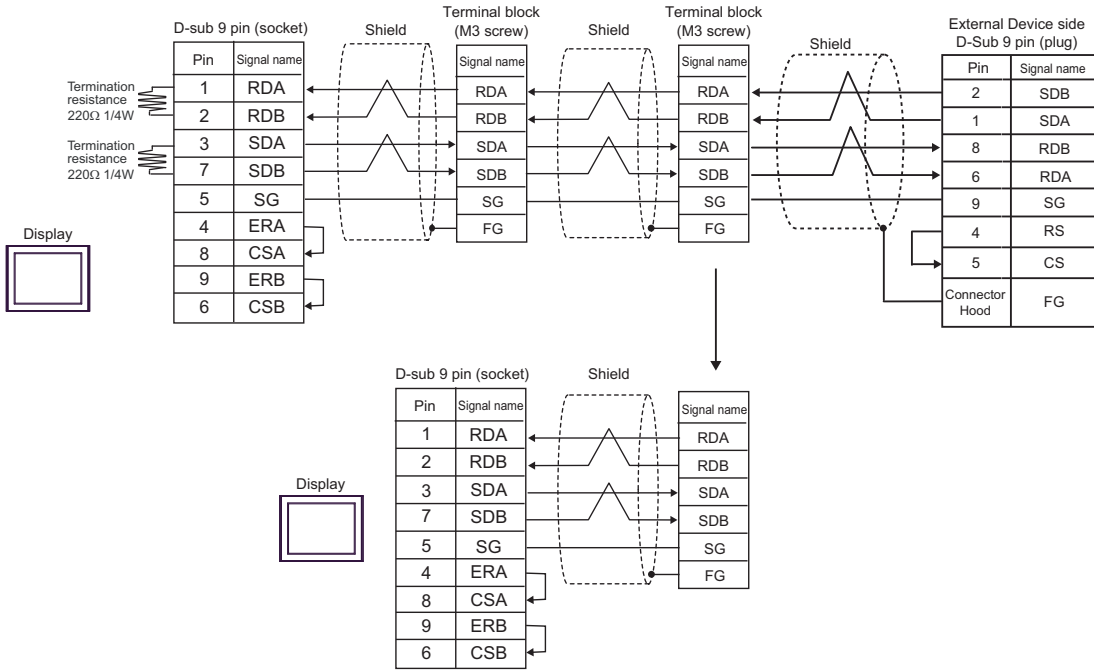
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19B)



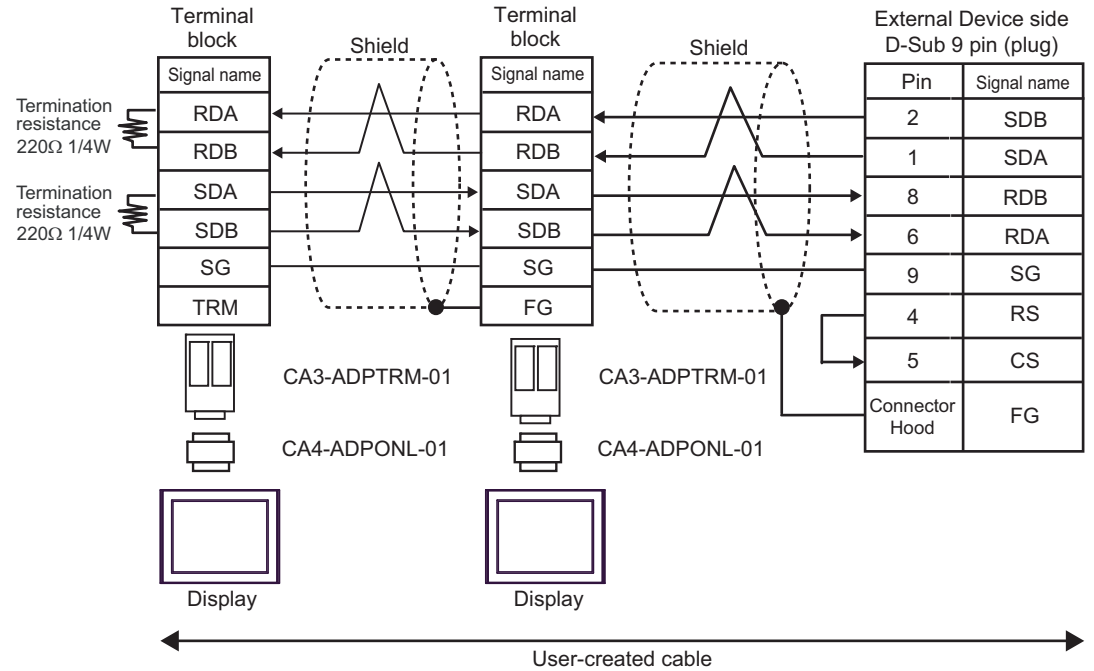
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19C)



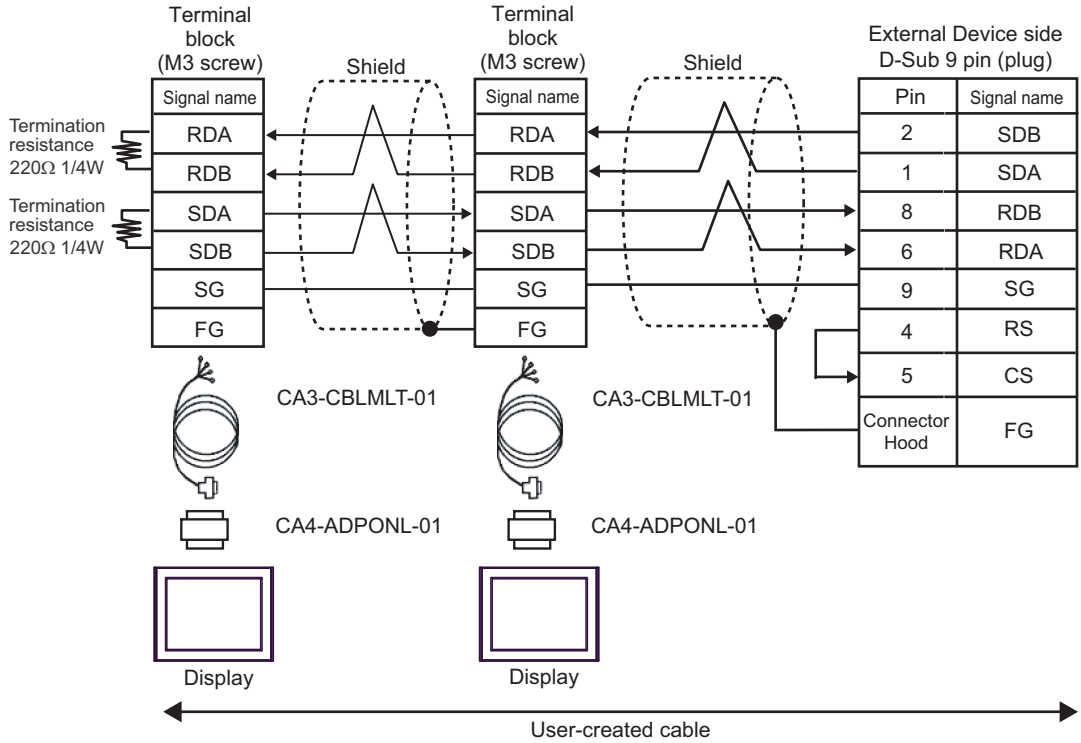
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19D)



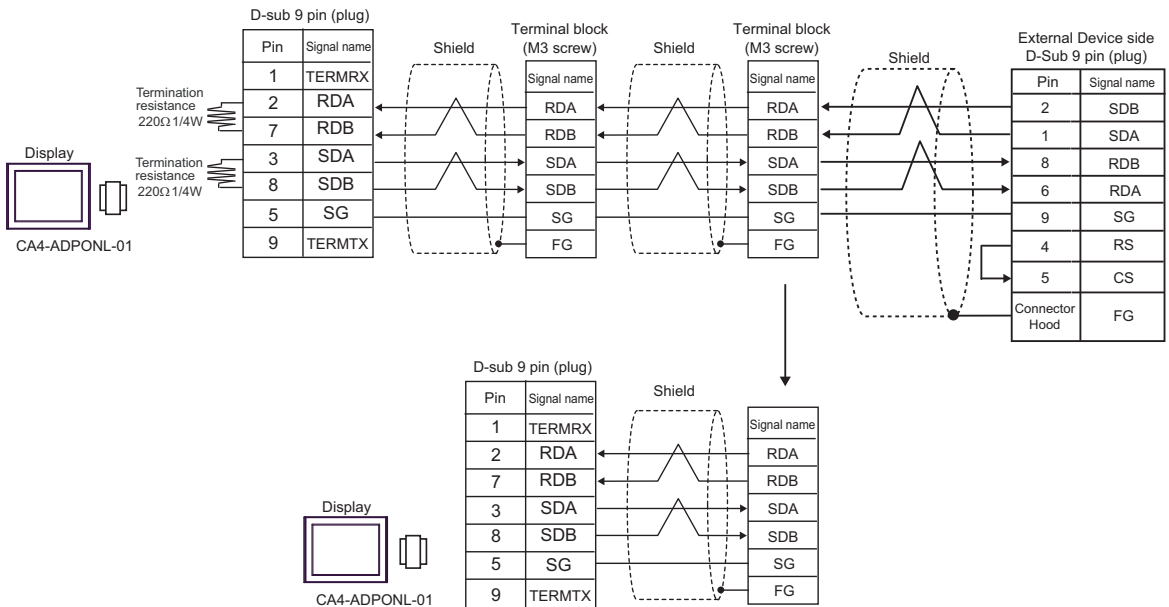
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19E)



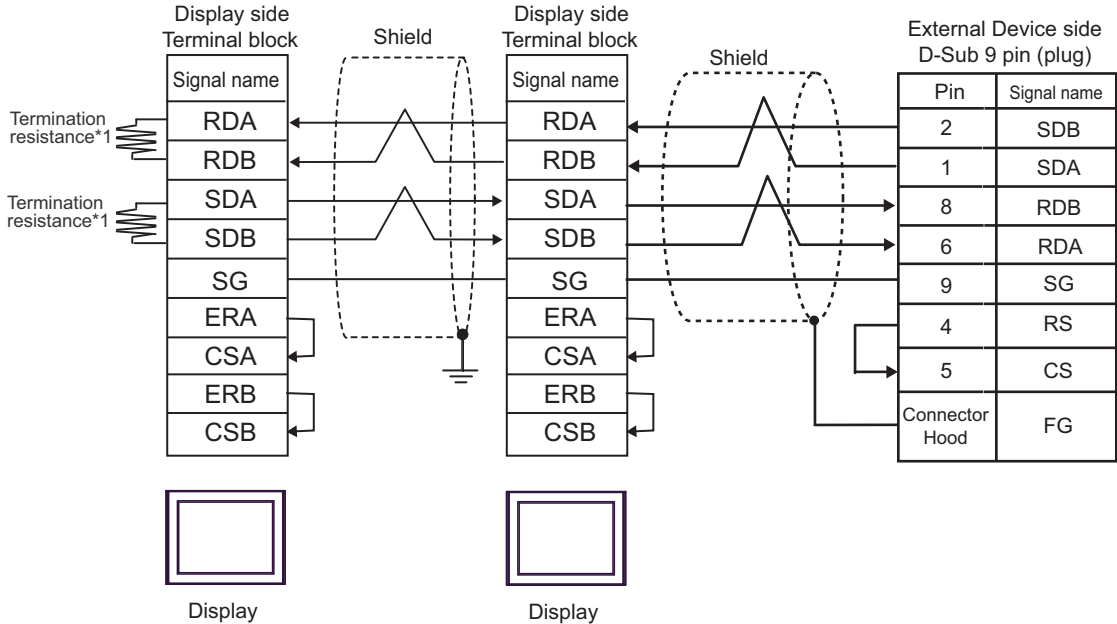
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19F)



NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19G)



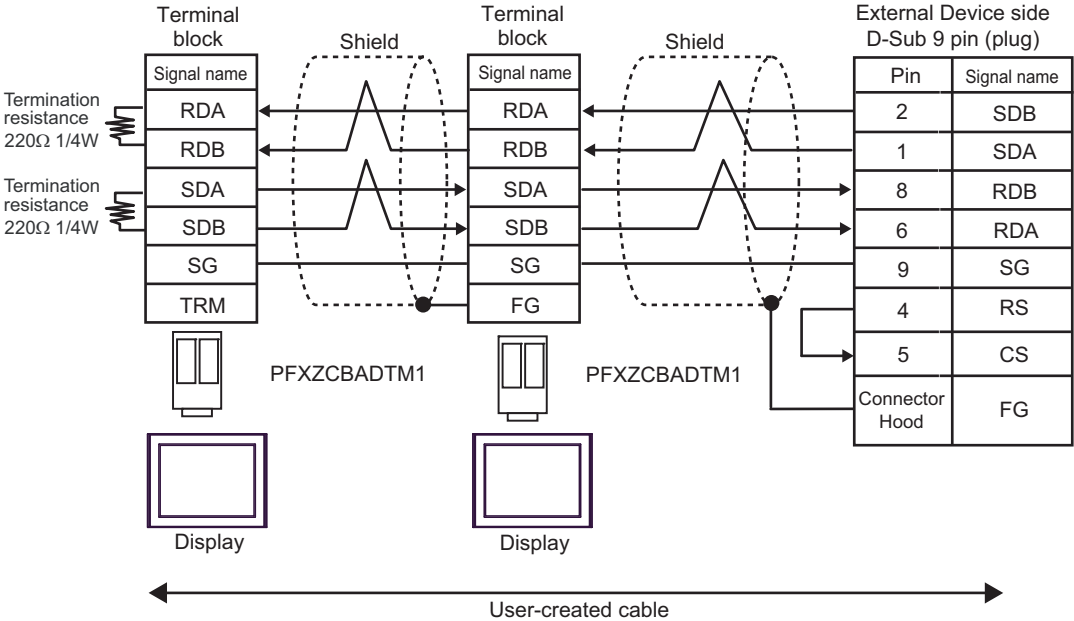
- *1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

DIP Switch No.	Set Value
1	OFF
2	ON
3	OFF
4	ON

For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:1 connection.

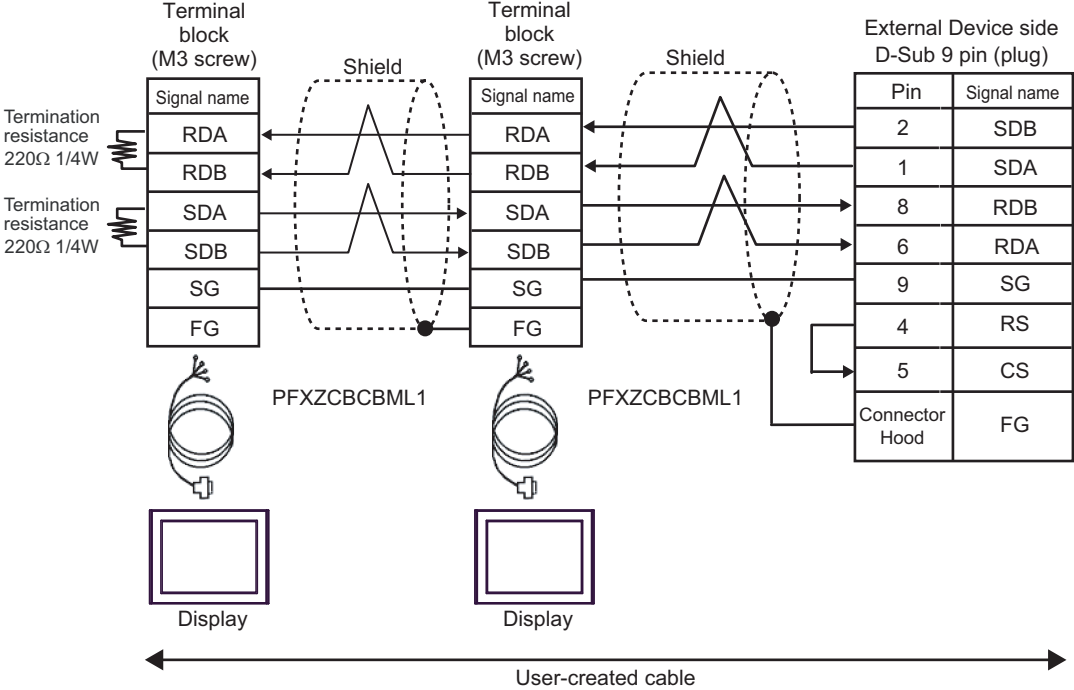
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19H)



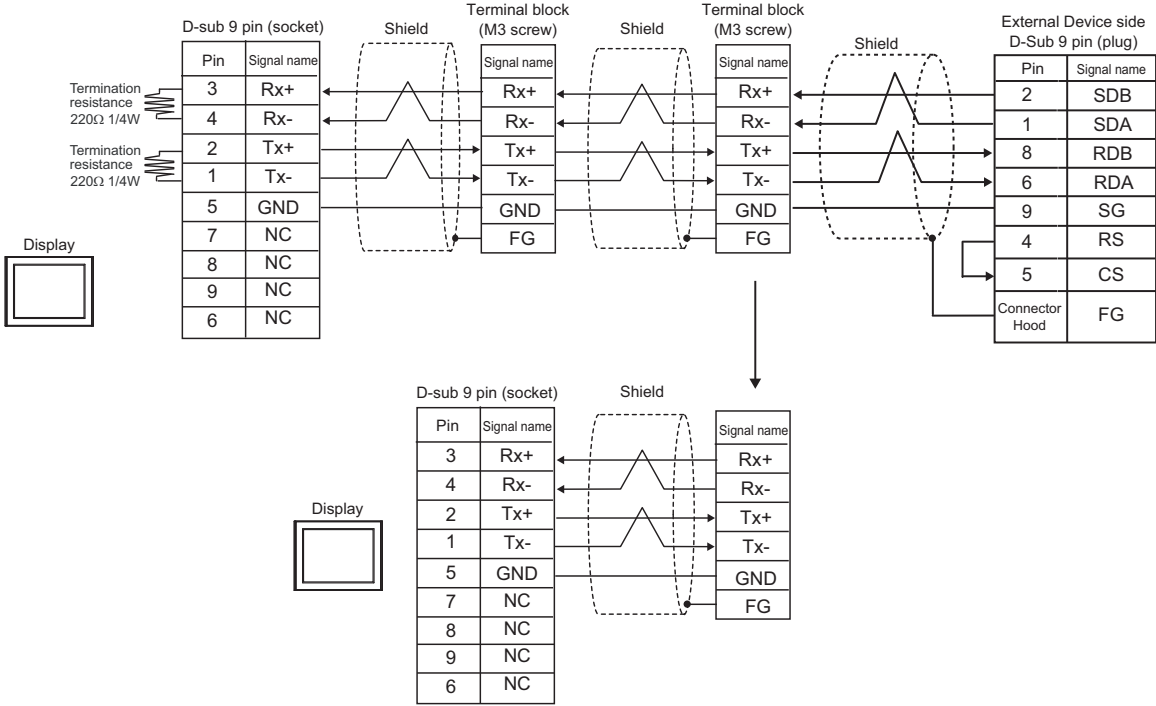
NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19I)



NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

19J)





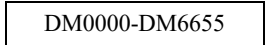

NOTE • When the port on the External Device does not have a SG terminal, SG connection is unnecessary.

6 Supported Device

Range of supported device address is shown in the table below. Please note that the actually supported range of the devices varies depending on the External Device to be used. Please check the actual range in the manual of your External Device.


6.1 SYSMAC-C Series

 : Available to set to the head address of the system device


Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 - 511.15	000-511		*1 *3
Internal Auxiliary Relay				
Special Auxiliary Relay				
Analog Setting Value Stored Area	220.00 - 223.15	220 - 223		*2 *3
Data Link Relay	LR00.00 - LR63.15	LR00-LR63		*3
Auxiliary Memory Relay	AR00.00 - AR27.15	AR00-AR27		*3
Latch Relay	HR00.00 - HR99.15	HR00-HR99		*3
Timer (Contact)	TIM000-TIM511	-----		
Counter (Contact)	CNT000-CNT511	-----		
Timer (Current Value)	-----	TIM000-TIM511		*4
Counter (Current Value)	-----	CNT000-CNT511	*4	
Data Memory	-----	 DM0000-DM6655		

- *1 Note that the actually supported range of the devices and whether write enable or disable may vary depending on the CPU. Please refer to the CPU manual for checking.
- *2 Can be used only in CQM1-CPU42.
- *3 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.
- *4 BCD only

NOTE

- Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.
 "Manual Symbols and Terminology"


6.2 SYSMAC-C Series (CQM1H-CPU51/CQM1H-CPU61)

 : Available to set to the head address of the system device

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 - 243.15	000-243	[L / H]	*1 *3
Internal Auxiliary Relay				
Special Auxiliary Relay	244.00-255.07	244-255		*2 *3
Link Relay	LR00.00-LR63.15	LR00-LR63		*3
Auxiliary Memory Relay	AR00.00-AR27.15	AR00-AR27		*3
Latch Relay	HR00.00-HR99.15	HR00-HR99		*3
Timer (Contact)	TIM000-TIM511	-----		
Counter (Contact)	CNT000-CNT511	-----		
Timer (Current Value)	-----	TIM000-TIM511		*4
Counter (Current Value)	-----	CNT000-CNT511		*4
Data Memory	-----	[] DM0000-DM6655		[Bit 15] *5
Extension Data Memory	-----	EM0000-EM6143		[Bit 15] *6

- *1 There is an area in which any address does not exist within the address range of input relay/internal auxiliary relay. Please refer to the SYSMAC-CQM1H User Manual by OMRON Corporation.
- *2 Bit address of the special auxiliary relay is 244.00-254.15/255.00-07. Bit address of 255.08-255.15 does not exist.
- *3 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.
- *4 BCD only
- *5 Do not write in the store area beyond data memory DM, DM6569-DM6599 and PC system setting area DM6600-DM6655.
- *6 Extension data memory EM supports only CQM1H-CPU61.

NOTE

- Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.
 "Manual Symbols and Terminology"

6.3 SYSMAC- α Series

L/H : Available to set to the head address of the system device

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay I	000.00-029.15	000-029	L/H	*1
I/O Relay II	300.00-309.15	300-309		*1
Internal Auxiliary Relay I	030.00-235.15	030-235		*1
Internal Auxiliary Relay II	310.00-511.15	310-511		*1
Special Auxiliary Relay I	236.00-255.07	236-255		*1
Special Auxiliary Relay II	256.00-299.15	256-299		*1
Link Relay	LR00.00-LR63.15	LR00-LR63		*1
Auxiliary Memory Relay	AR00.00-AR27.15	AR00-AR27		*1
Latch Relay	HR00.00-HR99.15	HR00-HR99		*1
Timer (Contact)	TIM000-TIM511	-----		
Counter (Contact)	CNT000-CNT511	-----		
Timer (Current Value)	-----	TIM000-TIM511		*2
Counter (Current Value)	-----	CNT000-CNT511		*2
Data Memory	-----	DM0000-DM6655		Bit 15 *3
Extension Fixed Data Memory	-----	DM7000-DM9999		Bit 15 *4
Extension Data Memory	-----	EM0000-EM6143		Bit 15 *5

- *1 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.
- *2 BCD only
- *3 We cannot guarantee the operation when you access the nonexistent data memory area (DM6656 to DM6999).
- *4 We cannot guarantee the operation when you access to DM7000 to DM9999 without the extension fixed DM setting.
- *5 We cannot guarantee the operation when you specify the area within the range in the models in which the bank of the extension memory area does not exist.

NOTE

- Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.

 "Manual Symbols and Terminology"

6.4 SYSMAC-CV Series

 : Available to set to the head address of the system device

Device	Bit Address	Word Address	32bits	Remarks
I/O Relay	000.00 - 199.15	000-199	L/H	*1
Internal Auxiliary Relay				*1
SYSMAC BUS/2 Remote I/O Relay	0200.00 - 0999.15	0200-0999		*1
Data Link Relay	1000.00 - 1199.15	1000-1199		*1
Special Auxiliary Relay	A000.00 - A511.15	A000-A511		*1
Latch Relay	1200.00 - 1499.15	1200-1499		*1
Internal Auxiliary Relay	1900.00 - 2299.15	1900-2299		*1
SYSBUS Remote I/O Relay	2300.00 - 2555.15	2300-2555		*1
Timer (Contact)	T0000-T1023	-----		*2
Counter (Contact)	C0000-C1023	-----		*2
Timer (Current Value)	-----	T0000-T1023	*3	
Counter (Current Value)	-----	C0000-C1023	*3	
Data Memory	-----	D0000-D9999	B.15	

*1 When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*2 Write disable

*3 BCD only

NOTE

- Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "LS Area (Direct Access Method Area)"
- Please refer to the precautions on manual notation for icons in the table.

 "Manual Symbols and Terminology"

7 Device Code and Address Code

Use device code and address code when you select "Device & Address" for the address type in data displays.

7.1 SYSMAC-C Series

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay	-----	0080	Word Address
Internal Auxiliary Relay			
Special Auxiliary Relay			
Analog Setting Value Stored Area	LR	0088	Word Address
Data Link Relay	-----	0080	Word Address
Auxiliary Memory Relay	AR	0085	Word Address
Latch Relay	HR	0084	Word Address
Timer (Contact)	TIM	00E0	Word Address
Counter (Contact)	CNT	00E2	Word Address
Timer (Current Value)	TIM	0060	Word Address
Counter (Current Value)	CNT	0061	Word Address
Data Memory	DM	0000	Word Address

7.2 SYSMAC-C Series (CQM1H-CPU51/CQM1H-CPU61)

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay	-----	0080	Word Address
Internal Auxiliary Relay			
Special Auxiliary Relay			
Link Relay	LR	0088	Word Address
Auxiliary Memory Relay	AR	0085	Word Address
Latch Relay	HR	0084	Word Address
Timer (Contact)	TIM	00E0	Word Address
Counter (Contact)	CNT	00E2	Word Address
Timer (Current Value)	TIM	0060	Word Address
Counter (Current Value)	CNT	0061	Word Address

continued to next page

Device	Device Name	Device Code (HEX)	Address Code
Data Memory	DM	0000	Word Address
Extension Data Memory	EM	0001	Word Address

7.3 SYSMAC- α Series

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay I	-----	0080	Word Address
I/O Relay II			
Internal Auxiliary Relay I			
Internal Auxiliary Relay II			
Special Auxiliary Relay I			
Special Auxiliary Relay II			
Link Relay	LR	0088	Word Address
Auxiliary Memory Relay	AR	0085	Word Address
Latch Relay	HR	0084	Word Address
Timer (Contact)	TIM	00E0	Word Address
Counter (Contact)	CNT	00E2	Word Address
Timer (Current Value)	TIM	0060	Word Address
Counter (Current Value)	CNT	0061	Word Address
Data Memory	DM	0000	Word Address
Extension Fixed Data Memory	DM	0000	Word Address
Extension Data Memory	EM	0001	Word Address

7.4 SYSMAC-CV Series

Device	Device Name	Device Code (HEX)	Address Code
I/O Relay	-----	0080	Word Address
Internal Auxiliary Relay			
SYSMAC BUS/2 Remote I/O Relay			
Data Link Relay			
Special Auxiliary Relay	A	0085	Word Address
Latch Relay	-	0080	Word Address
Internal Auxiliary Relay	-	0080	Word Address
SYSBUS Remote I/O Relay	-	0080	Word Address
Timer (Contact)	T	00E0	Word Address
Counter (Contact)	C	00E2	Word Address
Timer (Current Value)	T	0060	Word Address
Counter (Current Value)	C	0061	Word Address
Data Memory	D	0000	Word Address

8 Error Messages

Error messages are displayed on the Display screen as follows: "No.: Device Name: Error Message (Error Occurrence Area)". Each description is shown below.

Item	Description
No.	Error No.
Device Name	Name of the External Device where error occurs. Device name is a title of the External Device set with GP-Pro EX. (Initial value [PLC1])
Error Message	Displays messages related to the error which occurs.
Error Occurrence Area	<p>Displays IP address or device address of the External Device where error occurs, or error codes received from the External Device.</p> <p>NOTE</p> <ul style="list-style-type: none"> • IP address is displayed such as "IP address(Decimal): MAC address(Hex)". • Device address is displayed such as "Address: Device address". • Received error codes are displayed such as "Decimal[Hex]".

Display Examples of Error Messages

"RHAA035: PLC1: Error has been responded for device write command (Error Code: 2 [02H])"

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- NOTE**
- Refer to your External Device manual for details on received error codes.
 - Refer to "Display-related errors" in "Maintenance/Troubleshooting Guide" for details on the error messages common to the driver.
-

