



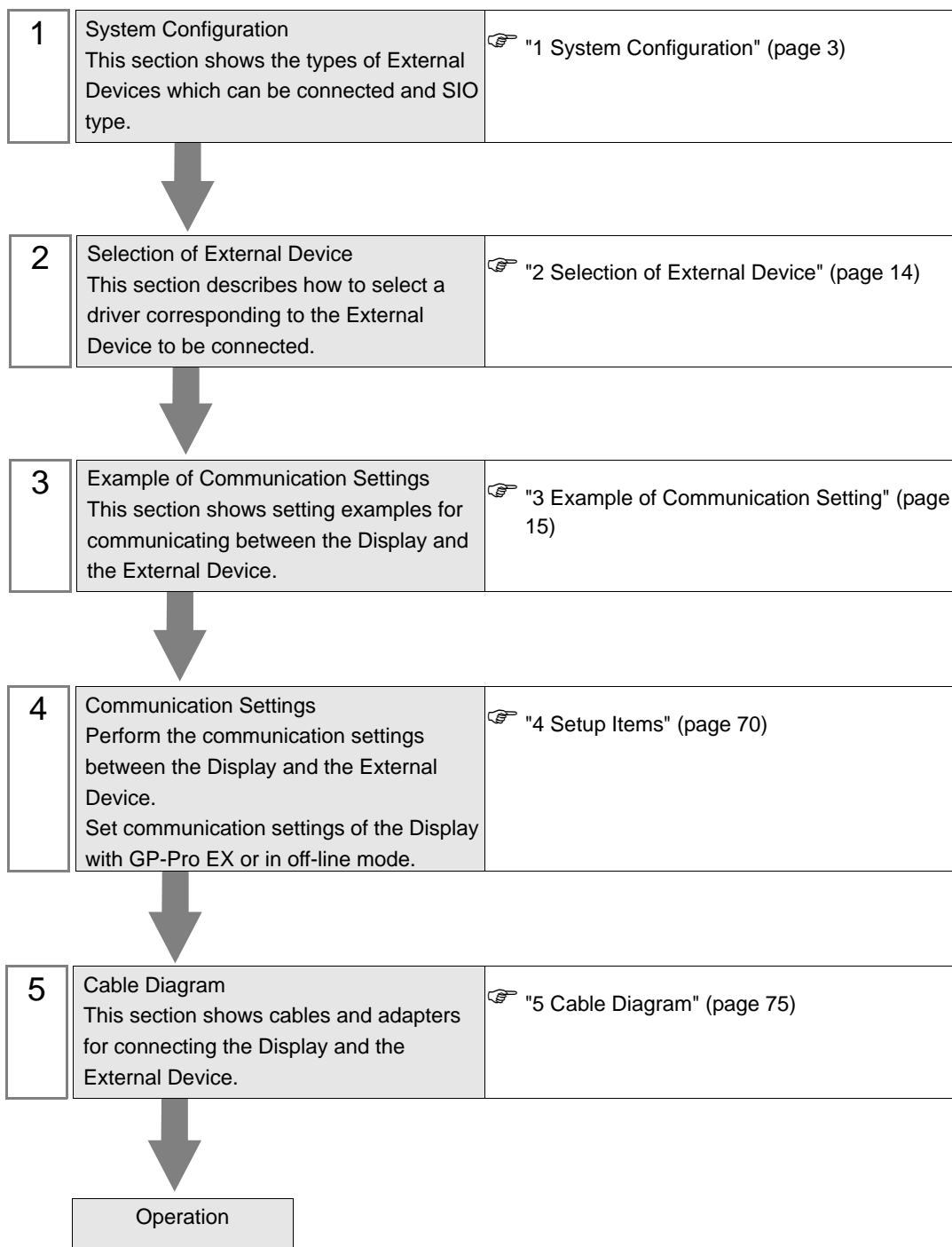
C/CV Series HOST Link Driver

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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 15) | Cable Diagram 1 (page 75) |
| | | C200H-LK202 ^{*1} C120-LK202-V1 ^{*2} | RS422/485 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |
| | C200HS | C200H-LK201 ^{*1} C120-LK201-V1 ^{*2} | RS232C | Setting Example 1 (page 15) | Cable Diagram 1 (page 75) |
| | | C200H-LK202 ^{*1} | RS422/485 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |
| | | Link I/F on the CPU unit ^{*3} | RS232C | Setting Example 3 (page 22) | Cable Diagram 3 (page 83) |
| | | Peripheral port on the CPU unit | RS232C | Setting Example 4 (page 24) | Cable Diagram 4 (page 84) ^{*4} |

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| 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 15) | Cable Diagram 1 (page 75) |
| | | C120-LK202-V1 ^{*2} | RS422/485 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |
| | | C500-LK201-V1 ^{*2} | RS232C | Setting Example 5 (page 26) | Cable Diagram 1 (page 75) |
| | | | RS422/485 (4wire) | Setting Example 6 (page 29) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 6 (page 29) | Cable Diagram 14 (page 123) |
| | | C500-LK203 ^{*2} | RS232C | Setting Example 5 (page 26) | Cable Diagram 1 (page 75) |
| | | | RS422/485 (4wire) | Setting Example 6 (page 29) | Cable Diagram 5 (page 85) |
| | | | RS422/485 (4wire) Multilink | Setting Example 6 (page 29) | Cable Diagram 15 (page 128) |
| | C1000HF | C500-LK201-V1 ^{*2} | RS232C | Setting Example 5 (page 26) | Cable Diagram 1 (page 75) |
| | | | RS422/485 (4wire) | Setting Example 6 (page 29) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 6 (page 29) | Cable Diagram 14 (page 123) |
| | | C500-LK203 ^{*2} | RS232C | Setting Example 5 (page 26) | Cable Diagram 1 (page 75) |
| | | | RS422/485 (4wire) | Setting Example 6 (page 29) | Cable Diagram 5 (page 85) |
| | | | RS422/485 (4wire) Multilink | Setting Example 6 (page 29) | Cable Diagram 15 (page 128) |
| | C20H C28H C40H | Link I/F on the CPU unit ^{*3} | RS232C | Setting Example 7 (page 32) | Cable Diagram 6 (page 91) |

continued to next page

| Series | CPU | Link I/F | SIO Type | Setting Example | Cable Diagram |
|----------|--|------------------------------------|-----------------------------------|---------------------------------|--------------------------------|
| SYSMAC C | C20PF C28PF C40PF C60PF | C120-LK201-V1*2 | RS232C | Setting Example 1 (page 15) | Cable Diagram 1 (page 75) |
| | | C120-LK202-V1*2 | RS422/485 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |
| | C120 C120F | C120-LK201-V1*2 | RS232C | Setting Example 1 (page 15) | Cable Diagram 1 (page 75) |
| | | C120-LK202-V1*2 | RS422/485 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |
| | CQM1-CPU11 | Peripheral port on the CPU unit | RS232C | Setting Example 8 (page 34) | Cable Diagram 4 (page 84)*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 36) | Cable Diagram 3 (page 83) |
| | | Peripheral port on the CPU unit | RS232C | Setting Example 8 (page 34) | Cable Diagram 4 (page 84)*4 |
| | | | | | |
| | CPM1 CPM1A CPM1A-V1 | Peripheral port on the CPU unit | RS232C | Setting Example 8 (page 34) | Cable Diagram 4 (page 84)*4 |
| | | CPM1-CIF01 | RS232C | Setting Example 10 (page 38) | Cable Diagram 3 (page 83) |
| | | CPM1-CIF11 | RS422/485 (4wire) | Setting Example 11 (page 40) | Cable Diagram 7 (page 92) |
| | | | RS422/485 (4wire) Multilink | Setting Example 11 (page 40) | Cable Diagram 16 (page 133) |
| | SRM1-C02 CPM2A | RS232C port on the CPU unit | RS232C | Setting Example 9 (page 36) | Cable Diagram 3 (page 83) |
| | | CPM1-CIF01 | | Setting Example 10 (page 38) | |
| | | CPM1-CIF11 | RS422/485 (4wire) | Setting Example 11 (page 40) | Cable Diagram 7 (page 92) |
| | | | RS422/485 (4wire) Multilink | Setting Example 11 (page 40) | Cable Diagram 16 (page 133) |

continued to next page

| Series | CPU | Link I/F | SIO Type | Setting Example | Cable Diagram |
|----------|----------------------------|---------------------------------|-----------------------------|------------------------------|---|
| SYSMAC C | CPM2C | Peripheral port on the CPU unit | RS232C | Setting Example 8 (page 34) | Cable Diagram 9 (page 101) ^{*4} |
| | | | | Setting Example 8 (page 34) | Cable Diagram 8 (page 99) |
| | | Peripheral port on CPM2C-CIF01 | RS232C | Setting Example 12 (page 42) | Cable Diagram 9 (page 101) ^{*4} |
| | | RS232C port on CPM2C-CIF01 | RS232C | Setting Example 13 (page 44) | Cable Diagram 3 (page 83) |
| | | RS232C port on CPM2C-CIF11 | RS232C | Setting Example 14 (page 46) | Cable Diagram 3 (page 83) |
| | | Terminal block on CPM2C-CIF11 | RS422/485 (4wire) | Setting Example 15 (page 48) | Cable Diagram 10 (page 102) |
| | | | RS422/485 (4wire) Multilink | Setting Example 15 (page 48) | Cable Diagram 17 (page 138) |
| | CQM1H-CPU11 CQM1H-CPU21 | Peripheral port on the CPU unit | RS232C | Setting Example 8 (page 34) | Cable Diagram 9 (page 101) ^{*4} |
| | | | | Setting Example 8 (page 34) | Cable Diagram 8 (page 99) |
| | | RS232C port on the CPU unit | RS232C | Setting Example 9 (page 36) | Cable Diagram 3 (page 83) |
| | CQM1H-CPU51 CQM1H-CPU61 | Peripheral port on the CPU unit | RS232C | Setting Example 8 (page 34) | Cable Diagram 9 (page 101) ^{*4} |
| | | | | Setting Example 8 (page 34) | Cable Diagram 8 (page 99) |
| | | RS232C port on the CPU unit | RS232C | Setting Example 9 (page 36) | Cable Diagram 3 (page 83) |
| | | RS232C port on CQM1H-SCB41 | RS232C | Setting Example 16 (page 50) | Cable Diagram 3 (page 83) |
| | | RS422A/485 port on CQM1H-SCB41 | RS422/485 (4wire) | Setting Example 17 (page 52) | Cable Diagram 11 (page 109) ^{*5} |
| | | | RS422/485 (4wire) Multilink | Setting Example 17 (page 52) | Cable Diagram 18 (page 146) ^{*5} |

continued to next page

| 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 54) | Cable Diagram 3 (page 83) |
| | | C200HW-COM02-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | C200HW-COM03-V1 | RS422 (4wire) | Setting Example 20 (page 58) | Cable Diagram 11 (page 109) |
| | | | RS422/485 (4wire) Multilink | Setting Example 20 (page 58) | Cable Diagram 18 (page 146) |
| | | C200HW-COM04-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | C200HW-COM05-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | C200HW-COM06-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | | RS422 (4wire) | Setting Example 20 (page 58) | Cable Diagram 11 (page 109) |
| | | | RS422/485 (4wire) Multilink | Setting Example 20 (page 58) | Cable Diagram 18 (page 146) |
| | | C200H-LK201-V1 | RS232C | Setting Example 1 (page 15) | Cable Diagram 1 (page 75) |
| | | C200H-LK202-V1 | RS422 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |

continued to next page

| 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 56) | Cable Diagram 3 (page 83) |
| | | C200HW-COM03-V1 | RS422 (4wire) | Setting Example 20 (page 58) | Cable Diagram 11 (page 109) |
| | | | RS422/485 (4wire) Multilink | Setting Example 20 (page 58) | Cable Diagram 18 (page 146) |
| | | C200HW-COM04-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | C200HW-COM05-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | C200HW-COM06-V1 | RS232C | Setting Example 19 (page 56) | Cable Diagram 3 (page 83) |
| | | | RS422 (4wire) | Setting Example 20 (page 58) | Cable Diagram 11 (page 109) |
| | | | RS422/485 (4wire) Multilink | Setting Example 20 (page 58) | Cable Diagram 18 (page 146) |
| | | C200H-LK201-V1 | RS232C | Setting Example 1 (page 15) | Cable Diagram 1 (page 75) |
| | | C200H-LK202-V1 | RS422 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |
| | C200HE-CPU11 C200HE-CPU11-Z | C200H-LK201-V1 | RS232C | Setting Example 1 (page 15) | Cable Diagram 1 (page 75) |
| | | C200H-LK202-V1 | RS422 (4wire) | Setting Example 2 (page 19) | Cable Diagram 2 (page 77) |
| | | | RS422/485 (4wire) Multilink | Setting Example 2 (page 19) | Cable Diagram 14 (page 123) |

continued to next page

| 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 60) | Cable Diagram 1 (page 75) |
| | | | RS232C (connecting port 2) | Setting Example 22 (page 62) | Cable Diagram 12 (page 116) |
| | | | RS422/485 (4wire) (connecting port 2) | Setting Example 23 (page 64) | Cable Diagram 13 (page 117) |
| | | | RS422/485 (4wire) Multilink | Setting Example 23 (page 64) | Cable Diagram 19 (page 154) |
| | | Link I/F on the CPU unit ^{*6} | RS232C | Setting Example 24 (page 66) | Cable Diagram 12 (page 116) |
| | | | RS422/485 (4wire) | Setting Example 25 (page 68) | Cable Diagram 13 (page 117) |
| | | | RS422/485 (4wire) Multilink | Setting Example 25 (page 68) | Cable Diagram 19 (page 154) |

*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

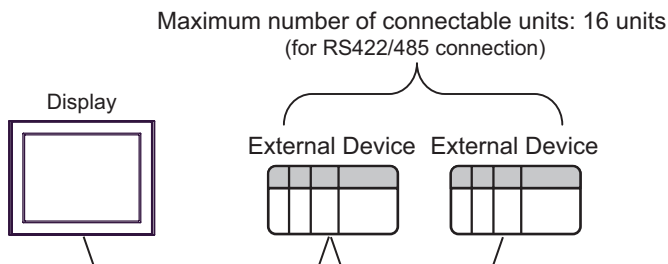
- For SYSMAC-α Series, please note as below.
- We cannot guarantee the operation when you access the nonexistent data memory area (DM6656 to DM6999).
- We cannot guarantee the operation when you access to DM7000 to DM9999 without the extension fixed DM setting.
- We cannot guarantee the operation when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

■ Connection Configuration

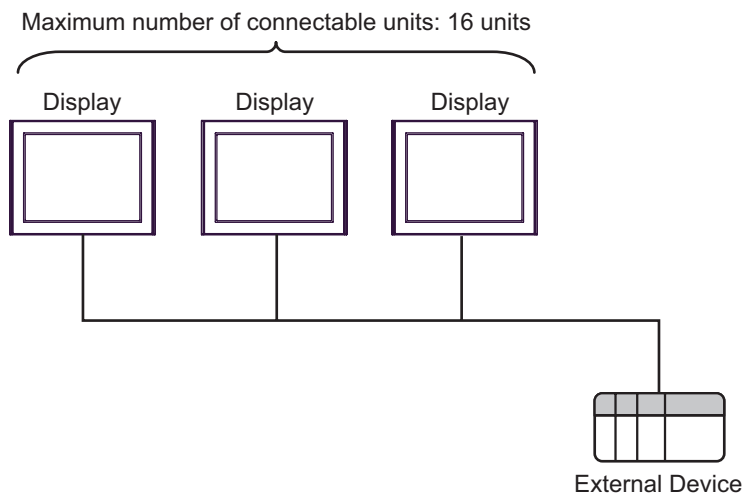
- 1:1 Connection



- 1:n Connection



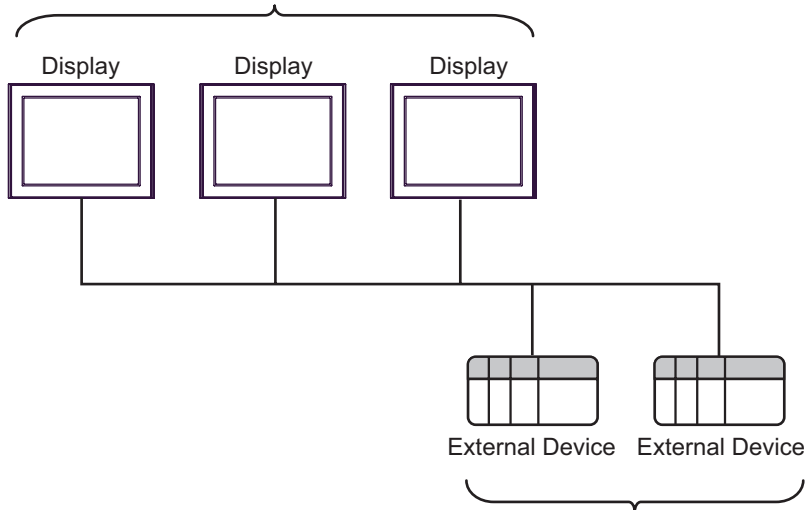
- n:1 Connection (Multilink connection)


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



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, PS-3651A | COM1 ^{*1} | - | - |
| 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} |
| PL-3000B, PL-3600T, PL-3600K, PL-3700T, PL-3700K, PL-3900T | COM1 ^{*1*2} , COM2 ^{*1} , COM3, COM4 | COM1 ^{*1*2} | COM1 ^{*1*2} |

*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.

DIP switch setting: 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.

DIP switch setting: 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} | |

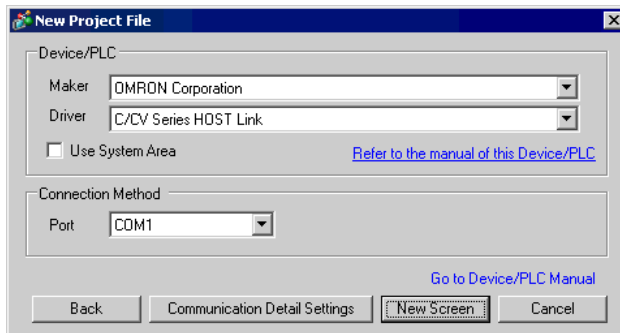
*1 When the connection configuration are the n:1 and n:m connections (both Multilink connections), turn ON the set value.

DIP switch setting: 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 |
|-----------------|---|
| Maker | Select the maker of the External Device to be connected. Select "OMRON Corporation". |
| Driver | Select a model (series) of the External Device to be connected and connection method. Select "C/CV Series HOST Link". Check the External Device which can be connected in "C/CV Series HOST Link" in system configuration. ☞ "1 System Configuration" (page 3) |
| Use System Area | Check this option when you synchronize the system data area of the Display and the device (memory) of the External Device. When synchronized, you can use the ladder program of the External Device to switch the display or display the window on the Display. Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)" This can also be set in GP-Pro EX or in the Display's off-line mode. Cf. GP-Pro EX Reference Manual "5.17.6 [System Settings] Setting Guide, [Display Unit] Settings Guide, System Area Settings" Cf. Maintenance/Troubleshooting Manual "2.15.1 Settings common to all Display models, [Main Unit Settings] Settings Guide, System Area Settings" |
| Port | Select the Display port to be connected to the External Device. |

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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: 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

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.

Default

Device-Specific Settings

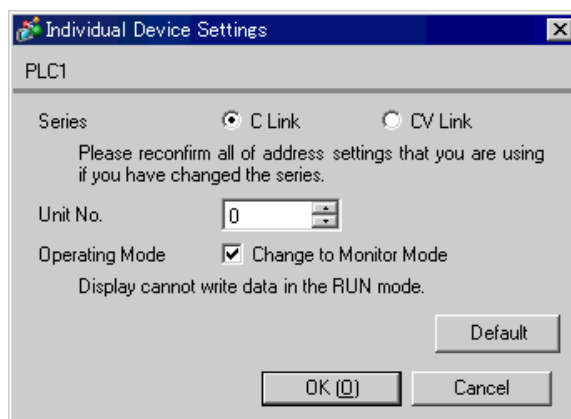
Allowable Number of Devices/PLCs: 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link,Unit No.=0,Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click  from [Device-Specific Settings] of [Device/PLC Settings] 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs 16

| Number | Device Name | Settings |
|--------|-------------|--------------------------|
| 1 | PLC1 | Settings |

Series=C Link, Unit No.=0, Change to Monitor Mode=ON

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☒ C Link ☐ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

Default

OK (O) 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☒ C Link ☐ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

Default

OK (O) 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] 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-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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: OMRON Corporation Series: C/CV Series HOST Link Port: COM1

Text Data Mode: 3 Change

Communication Settings

SID 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

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.

Default

Device-Specific Settings

Allowable No. of Device/PLCs: 16 Unit(s)

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

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series: ☒ C Link ☐ CV Link

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

Display cannot write data in the RUN mode.

Default

OK (O) 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: OMRON Corporation Series: C/CV Series HOST Link Port: COM1

Text Data Mode: 3

Communication Settings

SID 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

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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs: 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series: ☒ C Link ☐ CV Link

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

Display cannot write data in the RUN mode.

Default

OK (O) 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☒ C Link ☐ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

Default

OK 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port [Change Device/PLC](#)

Text Data Mode [Change](#)

Communication Settings

SID 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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☒ C Link ☐ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

Default

OK (O) Cancel

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

[Default](#)

Device-Specific Settings

Allowable Number of Devices/PLCs 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☒ C Link ☐ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

[Default](#)

[OK \(O\)](#) [Cancel](#)

■ 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 Unit

| DIP Switch | Settings |
|------------|----------|
| SW1 | OFF |
| SW2 | ON |

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

3.13 Setting Example 13

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: OMRON Corporation Series: C/CV Series HOST Link Port: COM1

Text Data Mode: 3

Communication Settings

SID 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

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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs: 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series: ☒ C Link ☐ CV Link

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

Display cannot write data in the RUN mode.

Default

OK (O) 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 Unit

| DIP Switch | Settings |
|------------|----------|
| SW1 | OFF |
| SW2 | ON |

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

3.14 Setting Example 14

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: OMRON Corporation Series: C/CV Series HOST Link Port: COM1

Text Data Mode: 3

Communication Settings

SID 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

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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs: 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series: ☒ C Link ☐ CV Link

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

Display cannot write data in the RUN mode.

Default

OK (O) 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.

3.15 Setting Example 15

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

■ 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.

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 | |

3.16 Setting Example 16

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: OMRON Corporation Series: C/CV Series HOST Link Port: COM1

Text Data Mode: 3

Communication Settings

SID 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

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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs: 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series: ☒ C Link ☐ CV Link

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

Display cannot write data in the RUN mode.

Default

OK (O) 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

Default

Device-Specific Settings

Allowable Number of Devices/PLCs 16

| Number | Device Name | Settings |
|--------|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☒ C Link ☐ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

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.

3.19 Setting Example 19

■ Setting of GP-Pro EX

◆ Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker: OMRON Corporation Series: C/CV Series HOST Link Port: COM1

Text Data Mode: 3 Change

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

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.

Default

Device-Specific Settings

Allowable No. of Device/PLCs: 16 Unit(s)

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

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series: ☐ C Link ☒ CV Link

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

Display cannot write data in the RUN mode.

Default

OK (O) Cancel

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

Default

Device-Specific Settings

Allowable No. of Device/PLCs 16 Unit(s)

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

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☐ C Link ☒ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

Default

OK (O) 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port [Change Device/PLC](#)

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.

[Default](#)

Device-Specific Settings

Allowable No. of Device/PLCs 16 Unit(s)

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

◆ Device Setting

To display the setting screen, click [Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☐ C Link ☒ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

[Default](#)

[OK \(O\)](#) [Cancel](#)

■ 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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port

Text Data Mode [Change](#)

Communication Settings

SID 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.

[Default](#)

Device-Specific Settings

Allowable No. of Device/PLCs 16 Unit(s)

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

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☐ C Link ☒ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

[Default](#)

[OK \(O\)](#) [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 setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary

Maker Series Port [Change Device/PLC](#)

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.

[Default](#)

Device-Specific Settings

Allowable No. of Device/PLCs 16 Unit(s)

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

◆ Device Setting

To display the setting screen, click ([Setting]) of External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When you connect multiple External Device, click from [Device-Specific Settings] of [Device/PLC Settings] to add another External Device.

Individual Device Settings

PLC1

Series ☐ C Link ☒ CV Link

Please reconfirm all of address settings that you are using if you have changed the series.

Unit No.

Operating Mode ☒ Change to Monitor Mode

Display cannot write data in the RUN mode.

[Default](#)

[OK \(O\)](#) [Cancel](#)

■ 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 off-line mode of the Display.

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

☞ "3 Example of Communication Setting" (page 15)

4.1 Setup Items in GP-Pro EX

■ Communication Settings

To display the setting screen, select [Device/PLC Settings] from [System setting window] in workspace.

Device/PLC 1

Summary [Change Device/PLC](#)

Maker 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.

Default


Device-Specific Settings


Allowable No. of Device/PLCs: 16 Unit(s)

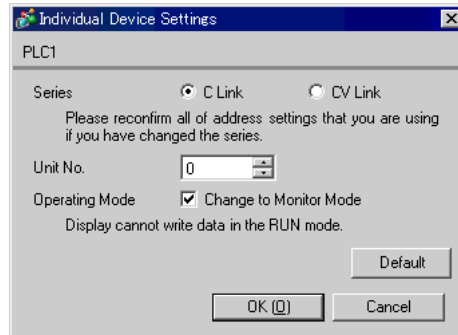
| No. | Device Name | Settings |
|-----|-------------|--|
| 1 | PLC1 | Series=C Link, Unit No.=0, Change to Monitor Mode=ON |

| 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. |
| 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 setting screen, click  ([Setting]) of the External Device you want to set from [Device-Specific Settings] of [Device/PLC Settings].

When [Allowable No. of Device/PLCs] is multiple, you can click  from [Device-Specific Settings] of [Device/PLC Settings] to add the External Device which is available to set.



| 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 Off-Line Mode

NOTE

- Refer to the Maintenance/Troubleshooting manual for information on how to enter off-line mode or about the operation.

Cf. Maintenance/Troubleshooting Manual "2.2 Off-line Mode"

- The number of the setup items to be displayed for 1 page in the off-line 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 off-line 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 checked="" type="radio"/> NONE <input type="radio"/> EVEN <input type="radio"/> ODD | | | |
| Stop Bit | <input checked="" type="radio"/> 1 <input 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 | <p>Select the SIO type to communicate with the External Device.</p> <p>IMPORTANT</p> <p>To make the communication settings correctly, confirm the serial interface specifications of Display unit for [SIO Type].</p> <p>We cannot guarantee the operation if a communication type that the serial interface does not support is specified.</p> <p>For details concerning the serial interface specifications, refer to the manual for Display unit.</p> |
| 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 ☒ 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.

| | | | | |
|--|------|--|------|------------------------|
| | 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 do not have the [Option] setting in the off-line 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..

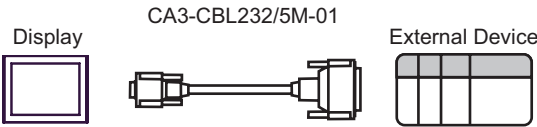
Cable Diagram 1

| Display | Cable | | Remarks |
|--|-------|--|---------------------------|
| GP3000 (COM1) ST (COM1) IPC ^{*1} PC/AT | 1A | RS232C cable by Pro-face CA3-CBL232/5M-01 | |
| | 1B | User-created cable | Cable length: 15m or less |
| GP-4105 (COM1) | 1C | User-created cable | |

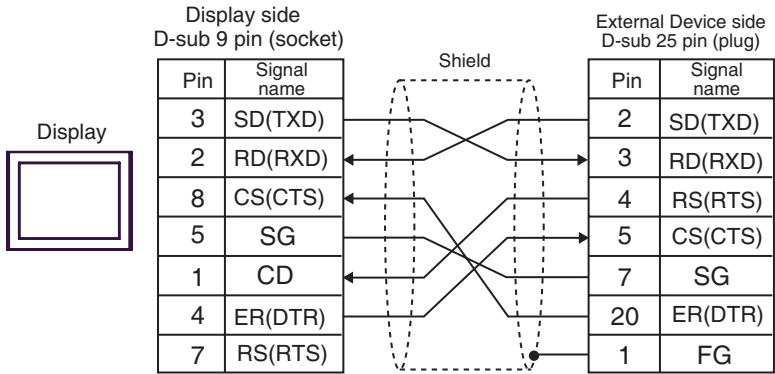
*1 Only the COM port which can communicate by RS-232C can be used.

 "■ IPC COM Port" (page 12)

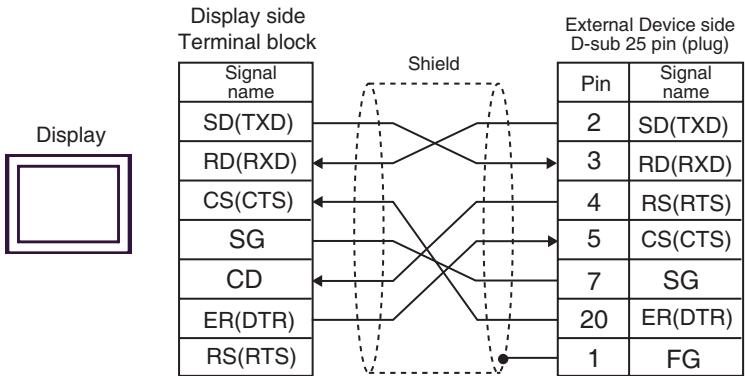
1A)



1B)



1C)




Cable Diagram 2

| Display | Cable | | Remarks |
|---|-------|--|---|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 2D | Online adapter by Pro-face CA4-ADPONL-01 + User-created cable | |
| GP-4106 (COM1) | 2E | User-created cable | |

*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

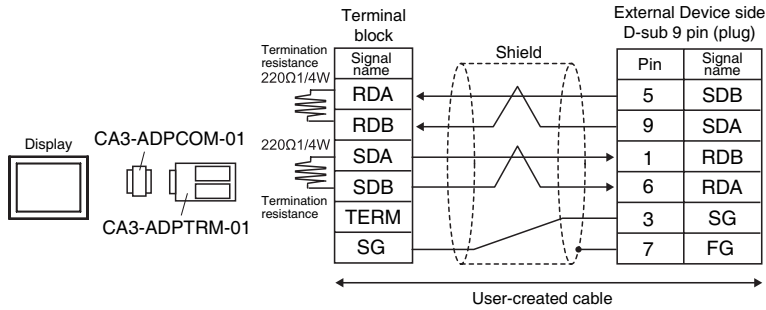
*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.

 "■ IPC COM Port" (page 12)

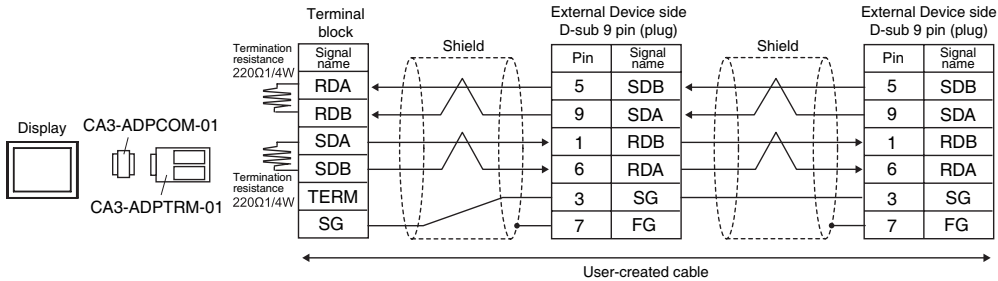
*4 All GP3000 models except GP-3200 series and AGP-3302B

2A)

- 1:1 Connection



- 1:n Connection

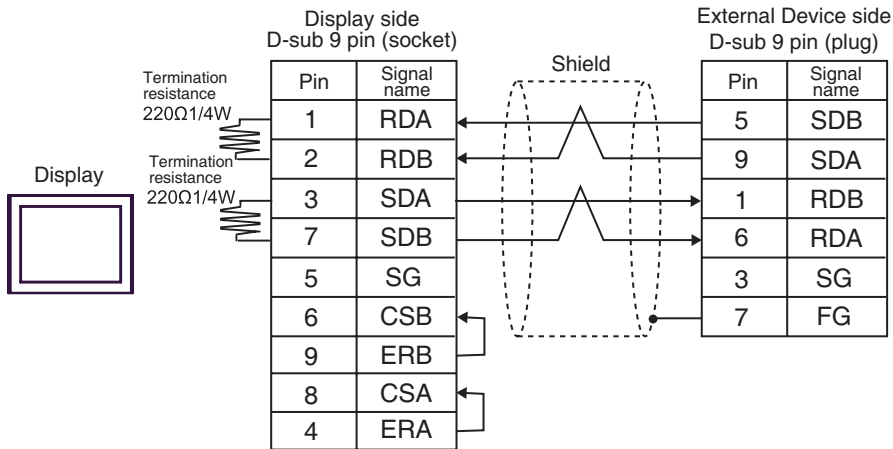


NOTE

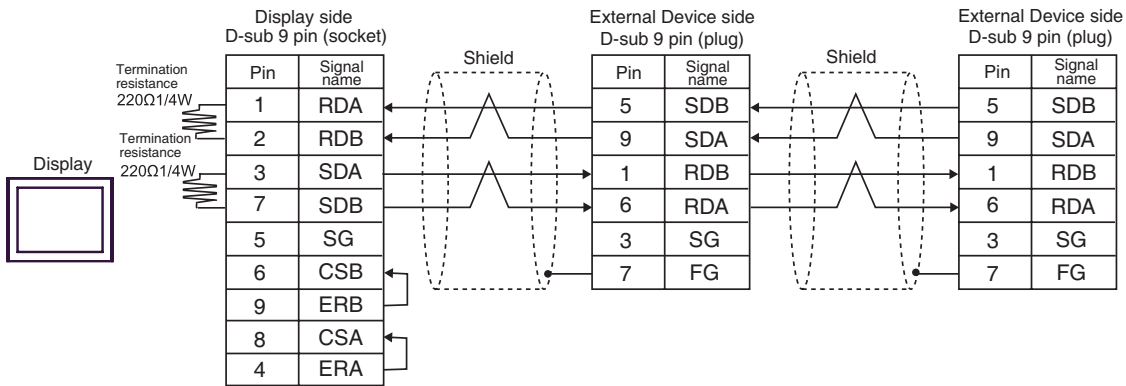
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

2B)

- 1:1 Connection



- 1:n Connection

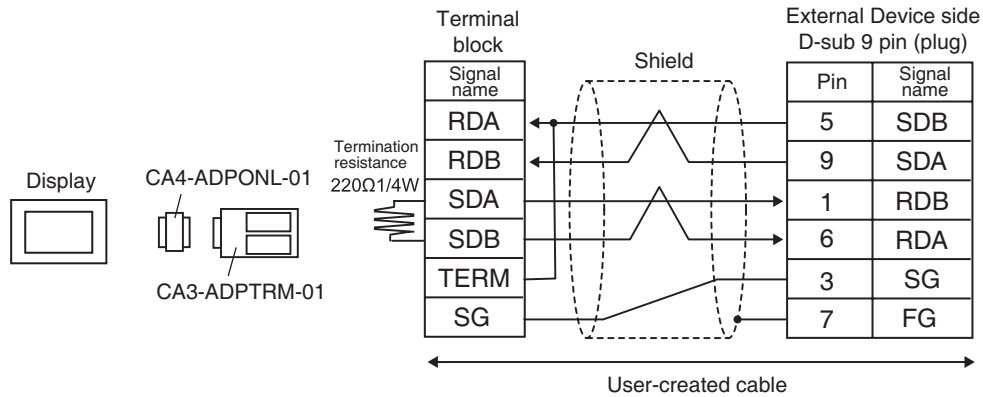


NOTE

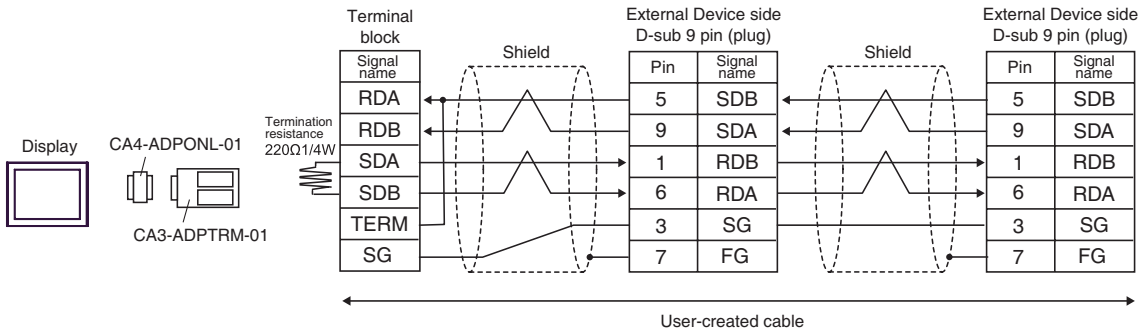
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

2C)

- 1:1 Connection

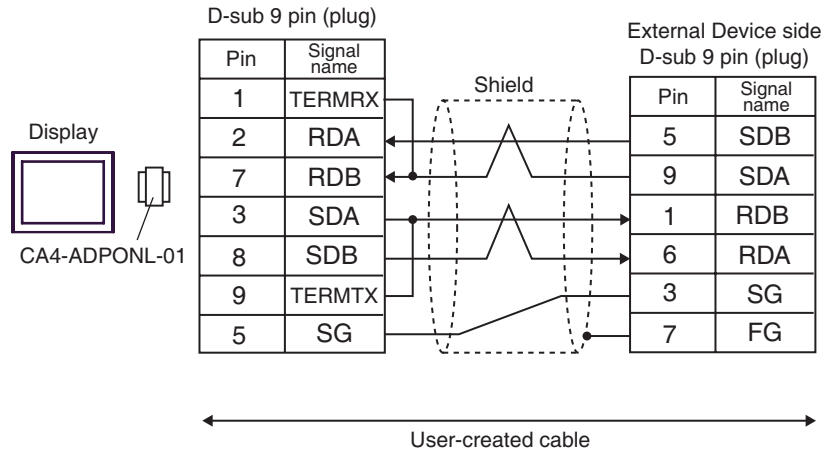


- 1:n Connection

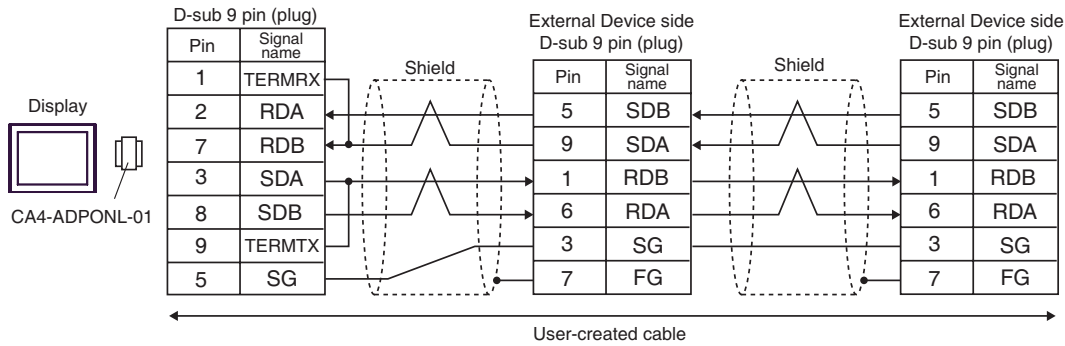


2D)

- 1:1 Connection

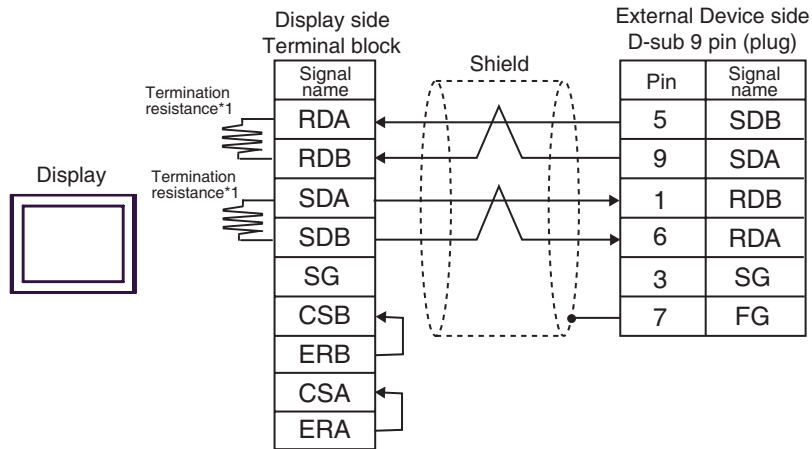


- 1:n Connection

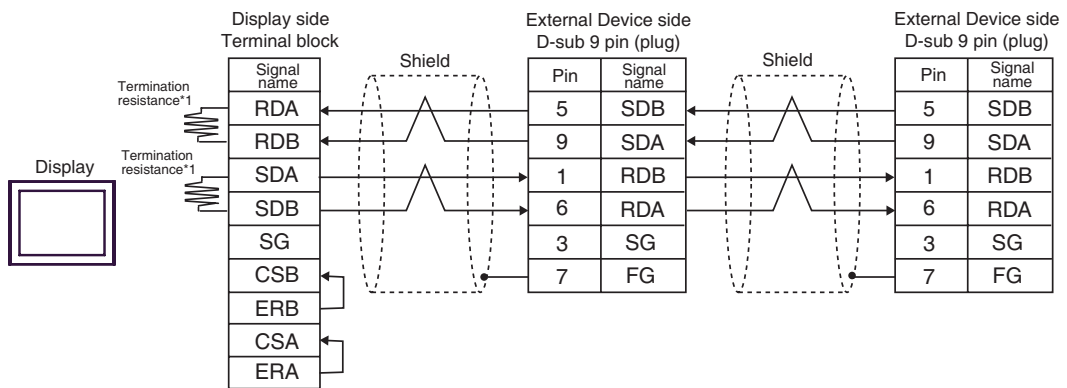


2E)

- 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 |

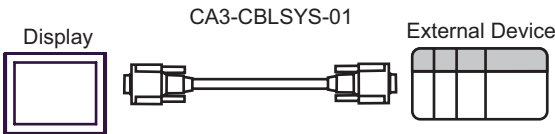
Cable Diagram 3

| Display | Cable | | Remarks |
|--|-------|--|---------------------------------------|
| GP3000 (COM1) ST (COM1) IPC*1 PC/AT | 3A | OMRON SYSMAC link cable by Pro-face CA3-CBLSYS-01 | The cable length must be 15m or less. |
| | 3B | User-created cable | |
| GP-4105 (COM1) | 3C | User-created cable | |

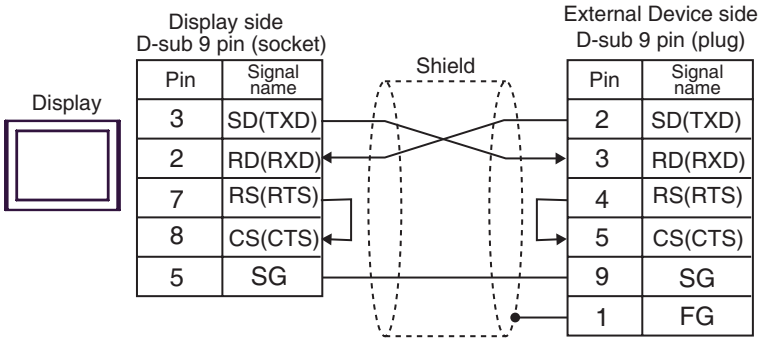
*1 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

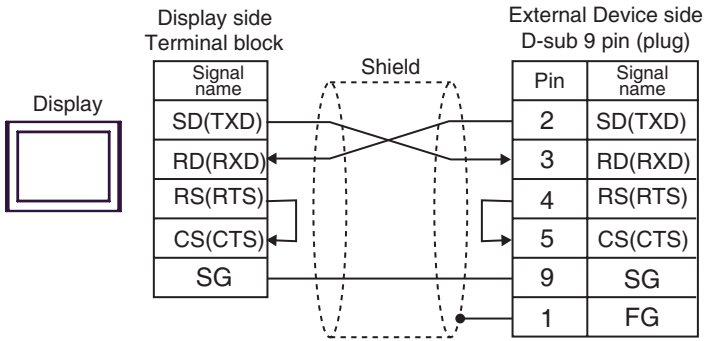
3A)



3B)



3C)



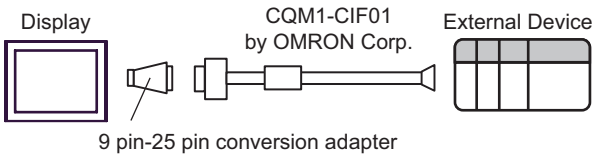
Cable Diagram 4

| Display | Cable | | Remarks |
|--|-------|---|---|
| GP3000 (COM1) ST (COM1) IPC*1 PC/AT | 4A | Isolation cable by OMRON Corporation CQM1-CIF01 | Commercial 9 pin-25 pin conversion adapter is required. |
| GP-4105 (COM1) | 4B | User-created cable + Isolation cable by OMRON Corporation CQM1-CIF01 | |

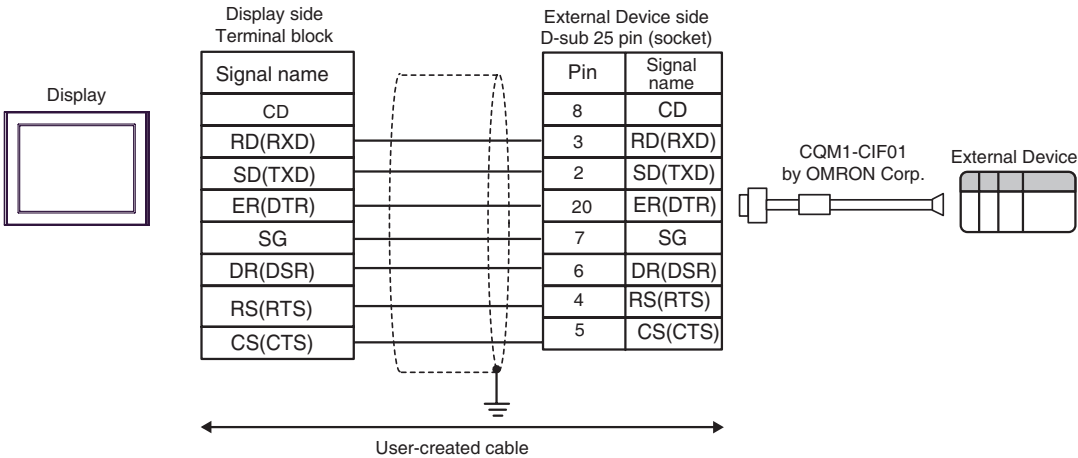
*1 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

4A)



4B)




Cable Diagram 5

| Display | Cable | | Remarks |
|---|-------|---|---|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 5D | Online adapter by Pro-face CA4-ADPONL-01 + User-created cable | |
| GP-4106 (COM1) | 5E | User-created cable | |

*1 All GP3000 models except AGP-3302B

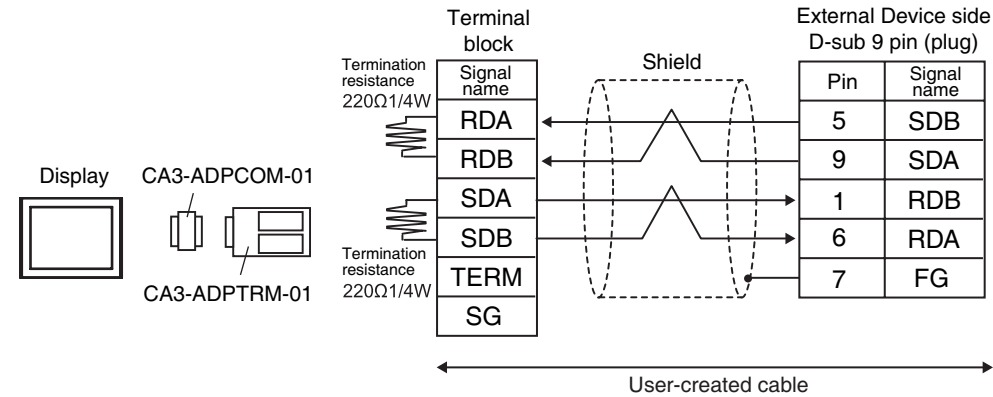
*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

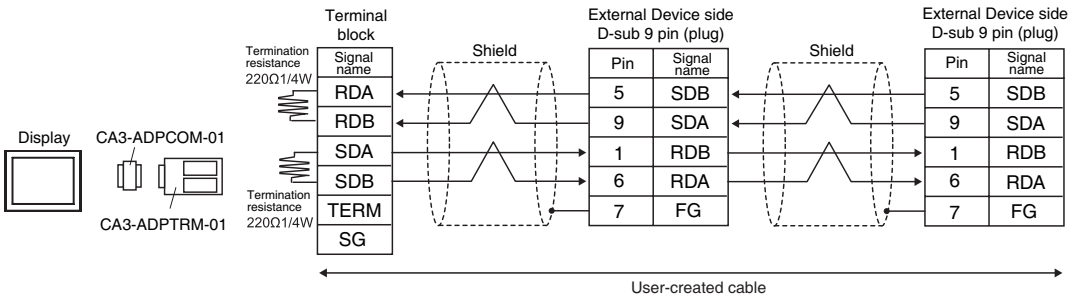
*4 All GP3000 models except GP-3200 series and AGP-3302B

5A)

- 1:1 Connection



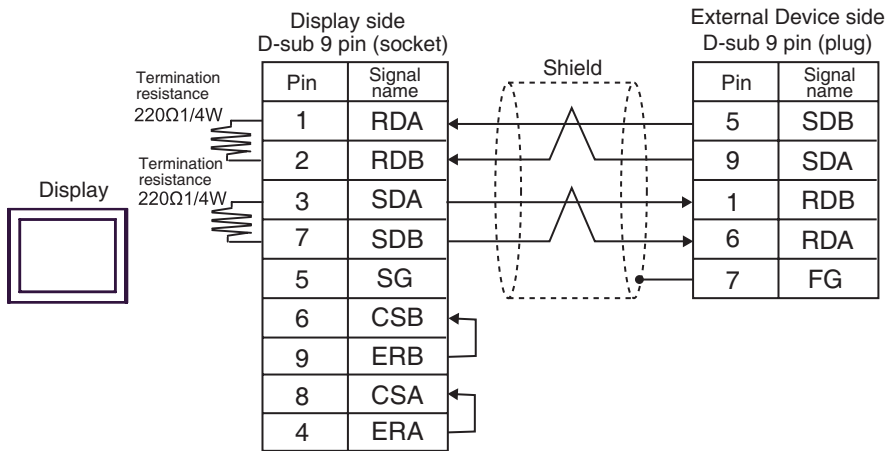
- 1:n Connection



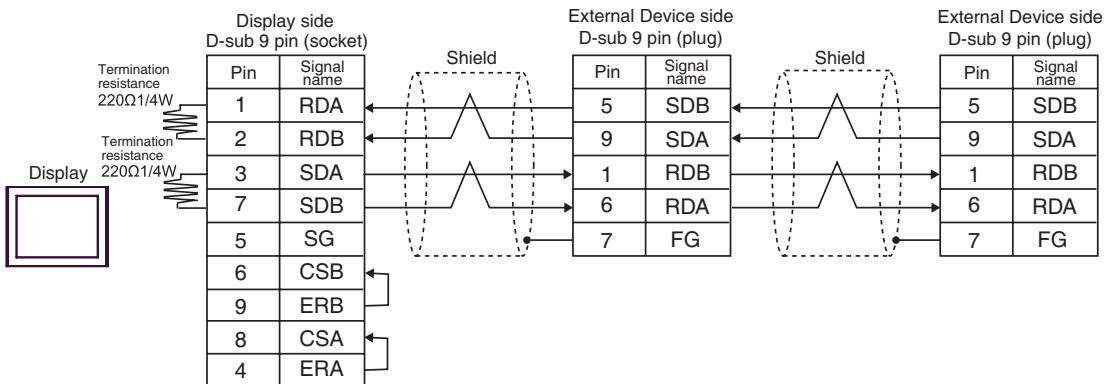
- NOTE**
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

5B)

- 1:1 Connection



- 1:n Connection

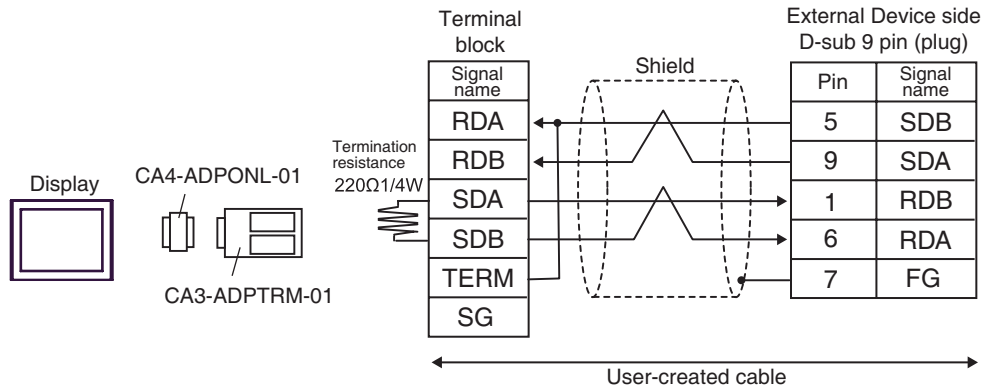


NOTE

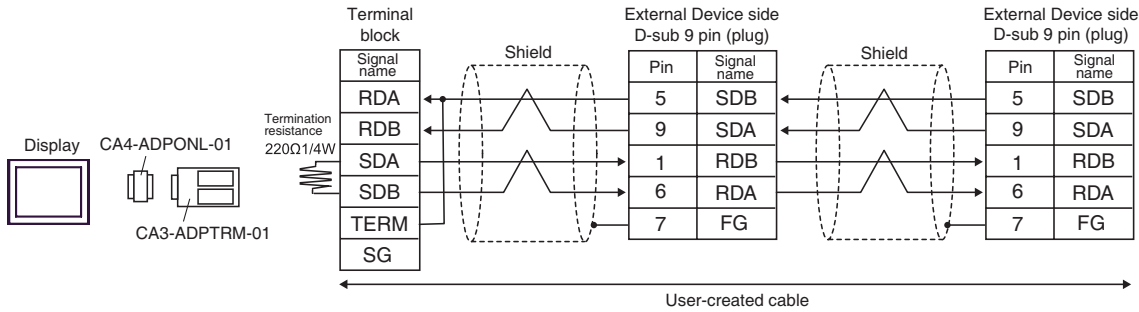
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

5C)

- 1:1 Connection

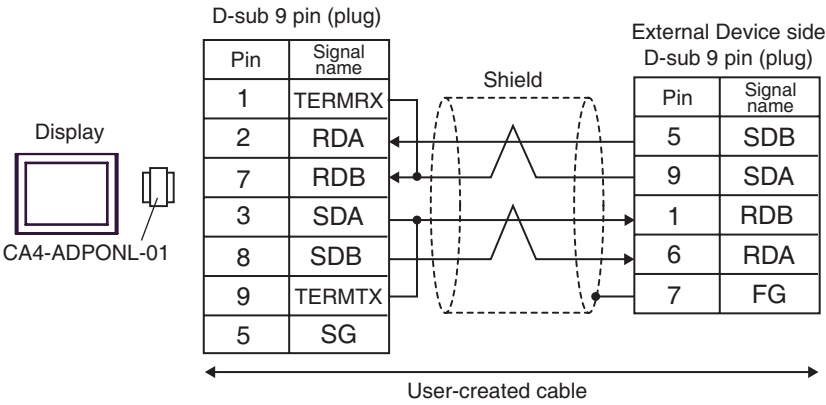


- 1:n Connection

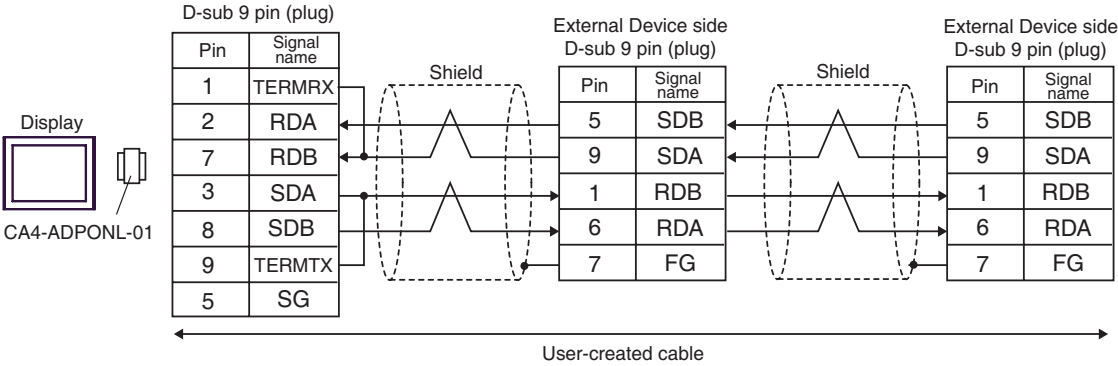


5D)

- 1:1 Connection

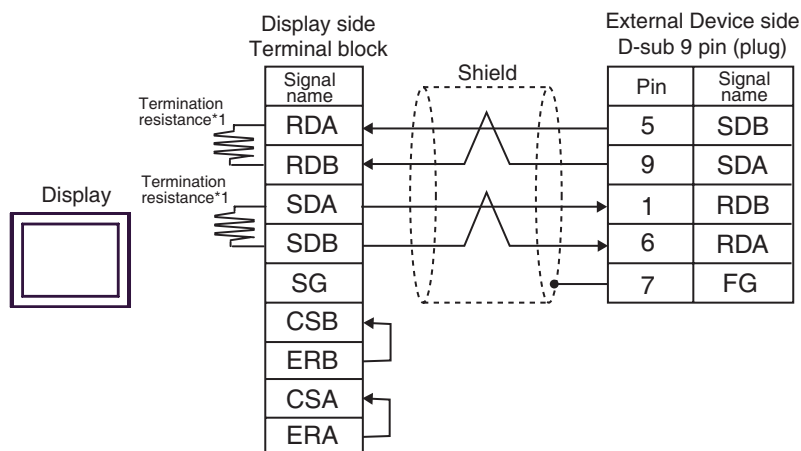


- 1:n Connection

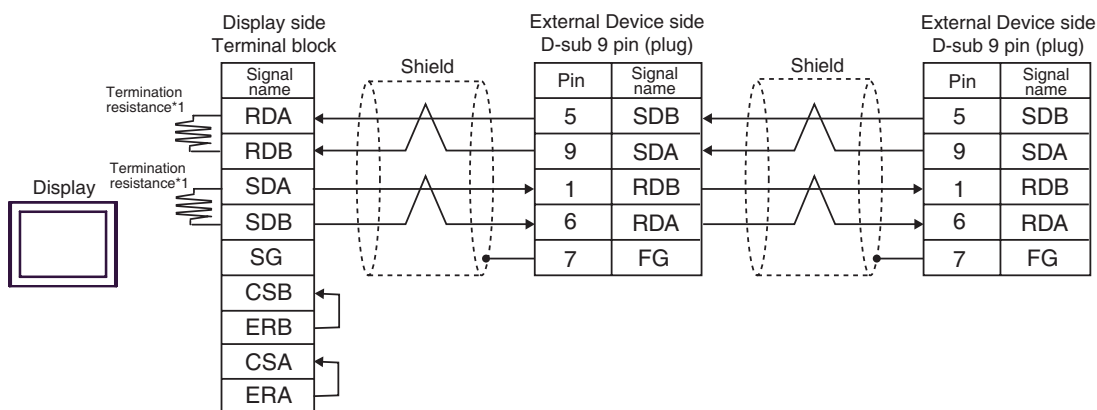


5E)

- 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 |

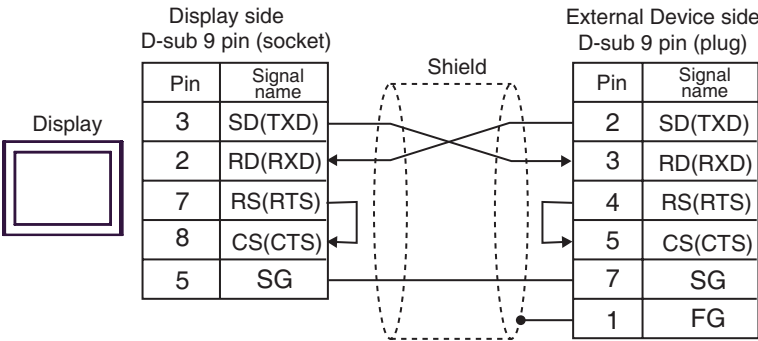
Cable Diagram 6

| Display | Cable | | Remarks |
|--|-------|--------------------|---------------------------------------|
| GP3000 (COM1) ST (COM1) IPC*1 PC/AT | 6A | User-created cable | The cable length must be 15m or less. |
| GP-4105 (COM1) | 6B | User-created cable | |

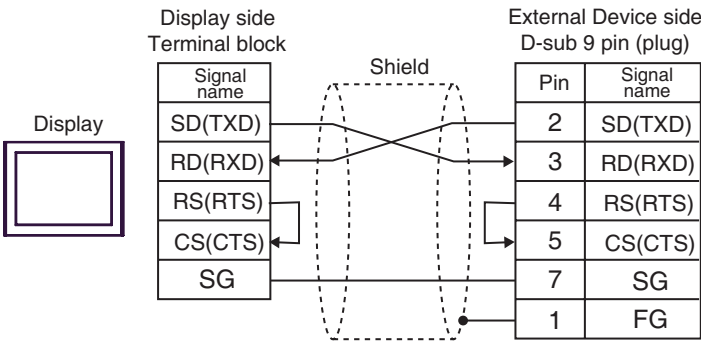
*1 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

6A)



6B)




Cable Diagram 7

| Display | Cable | | Remarks |
|---|-------|---|---|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 7E | Online adapter by Pro-face CA4-ADPONL-01 + User-created cable | |
| GP-4106 (COM1) | 7F | User-created cable | |

*1 All GP3000 models except AGP-3302B

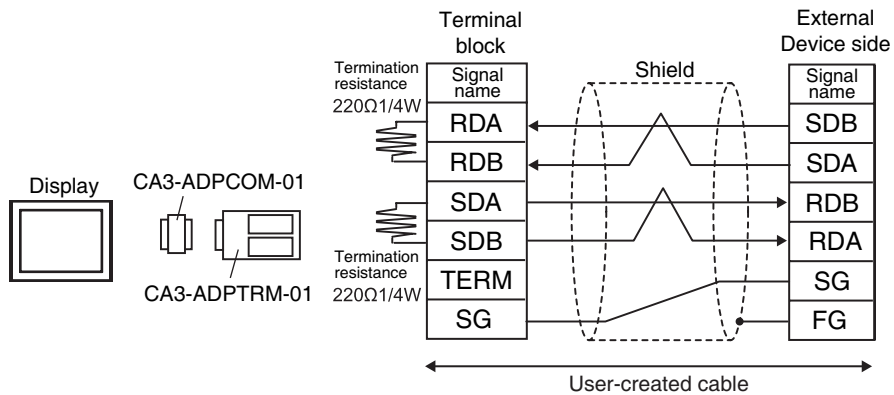
*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

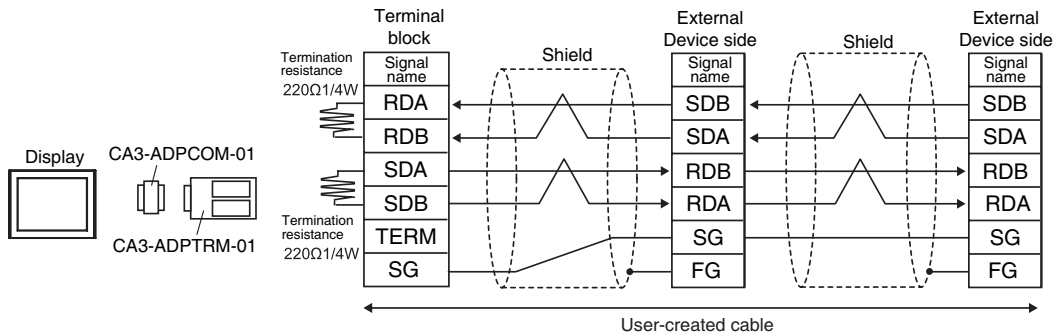
*4 All GP3000 models except GP-3200 series and AGP-3302B

7A)

- 1:1 Connection



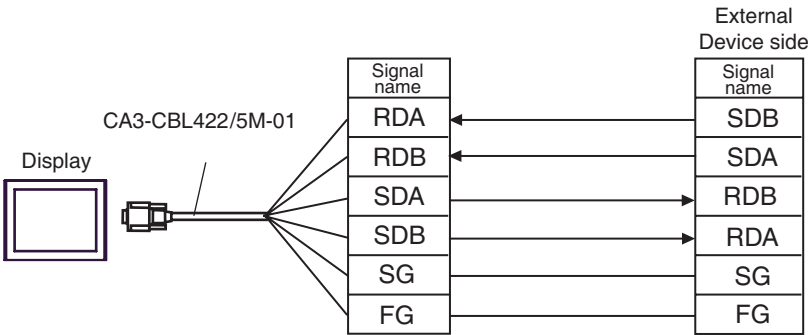
- 1:n Connection

**NOTE**

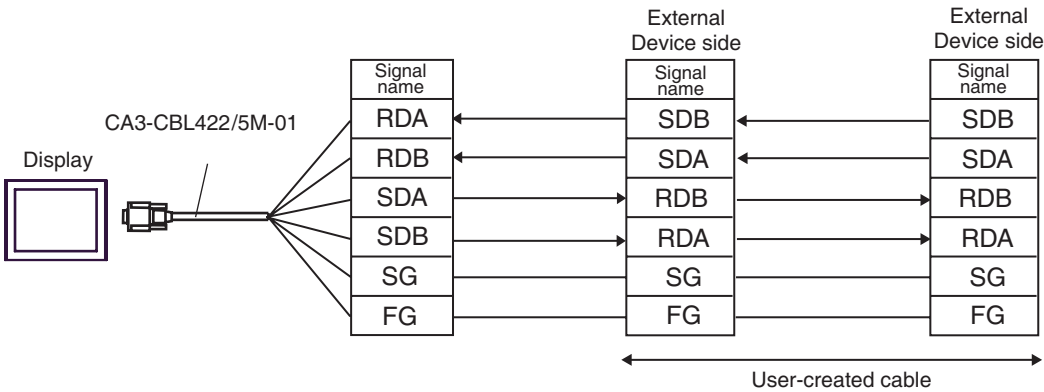
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

7B)

- 1:1 Connection

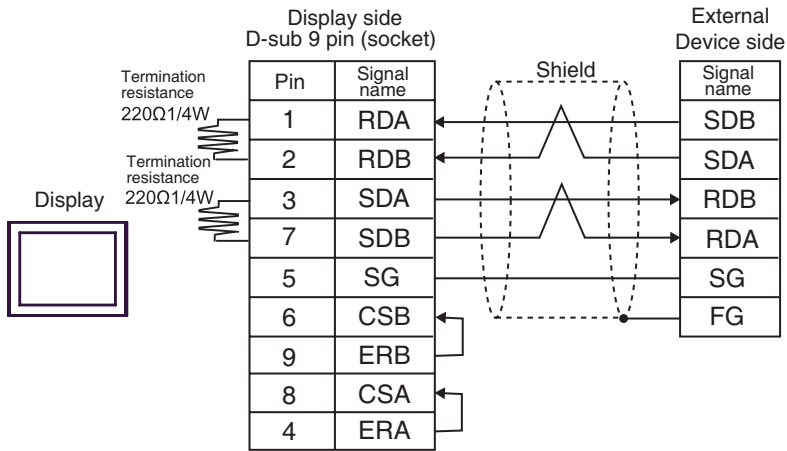


- 1:n Connection

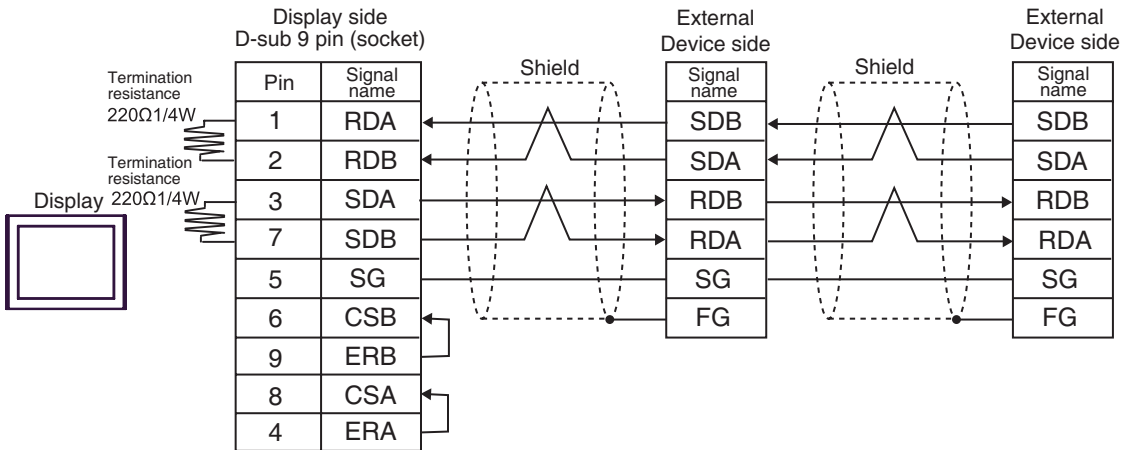


7C)

- 1:1 Connection



- 1:n Connection

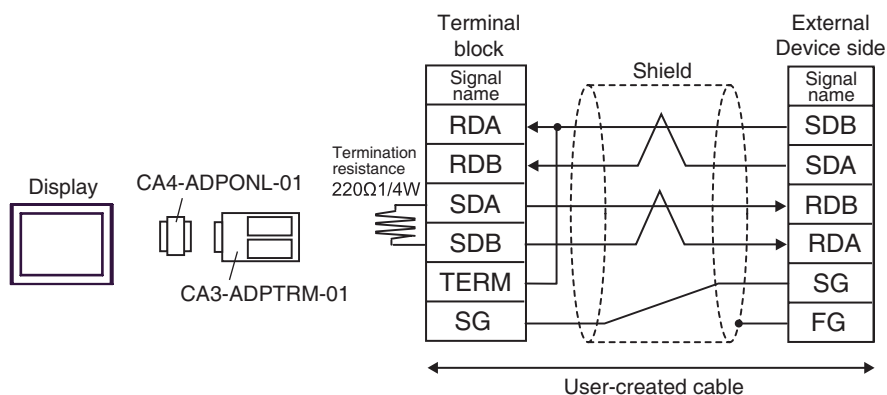


NOTE

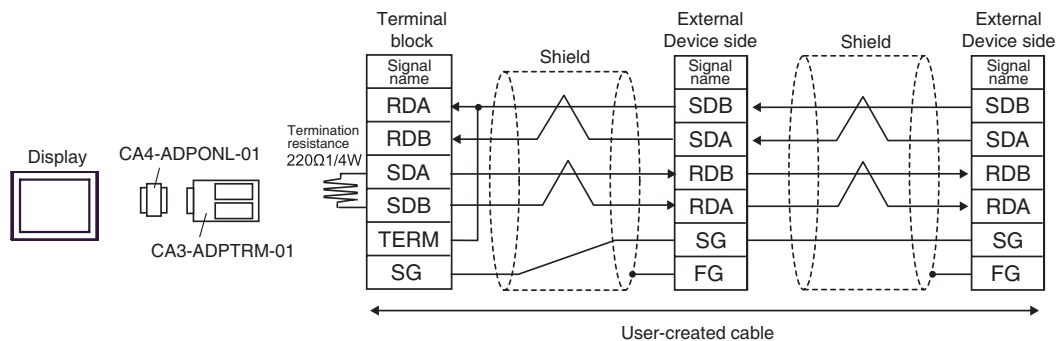
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

7D)

- 1:1 Connection

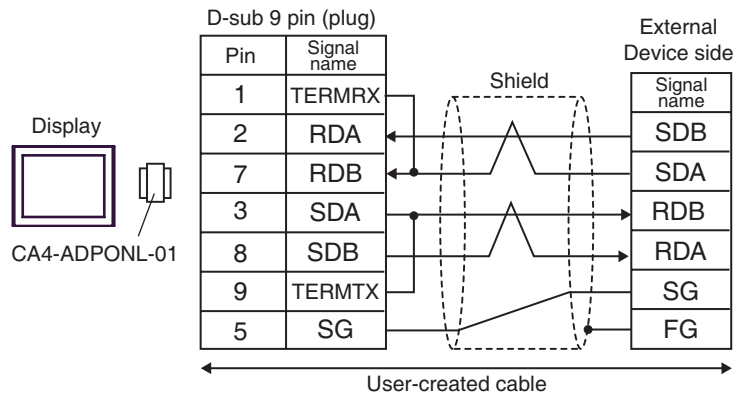


- 1:n Connection

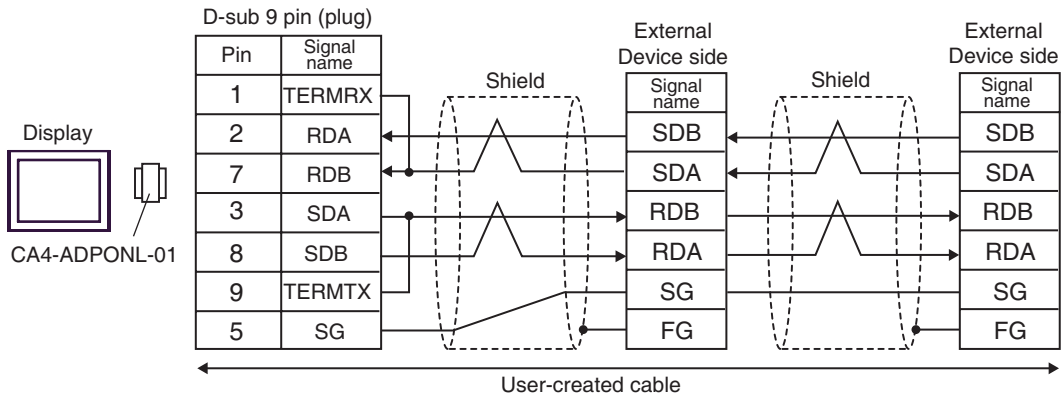


7E)

- 1:1 Connection

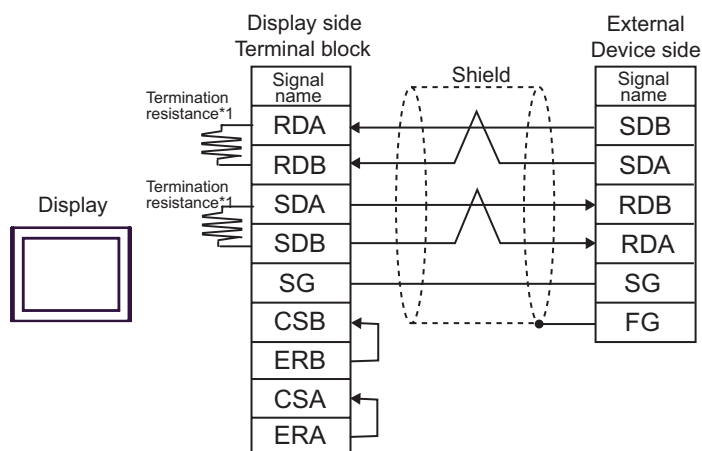


- 1:n Connection

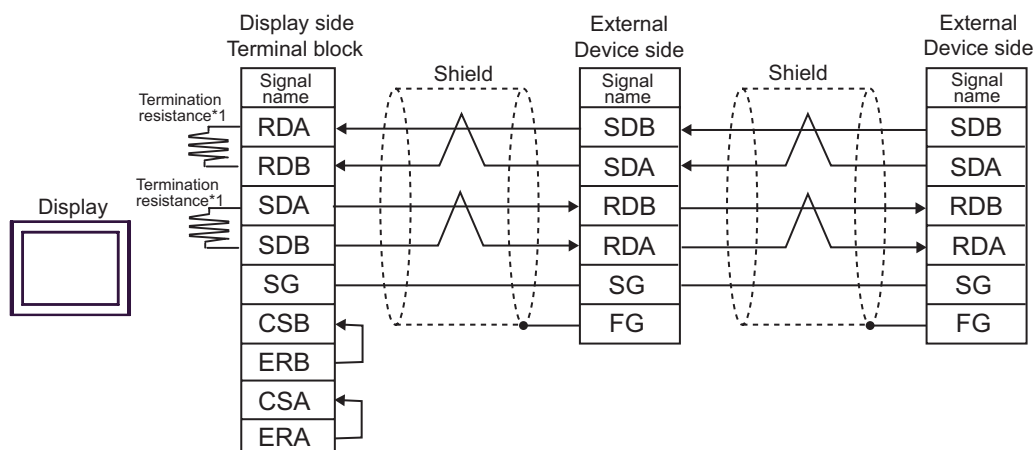


7F)

- 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 |

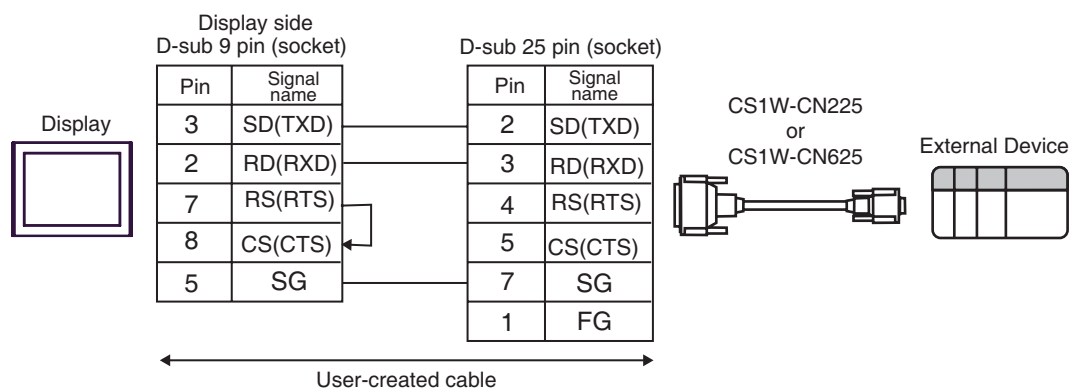
Cable Diagram 8

| Display | Cable | | Remarks |
|--|-------|---|---------------------------------------|
| GP3000 (COM1) ST (COM1) IPC*1 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) | 8C | User-created cable + CS1W-CN225 (2m) or CS1W-CN625 (6m) by OMRON Corporation | |
| | 8D | User-created cable + CS1W-CN226 (2m) or CS1W-CN626 (6m) by OMRON Corporation | |

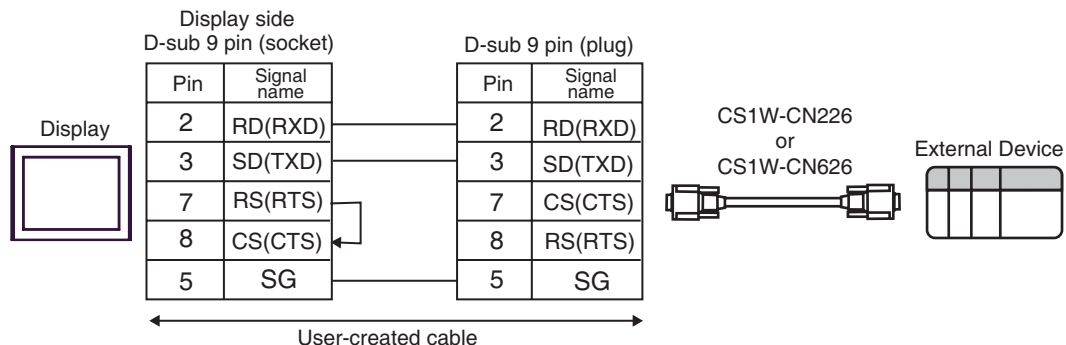
*1 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

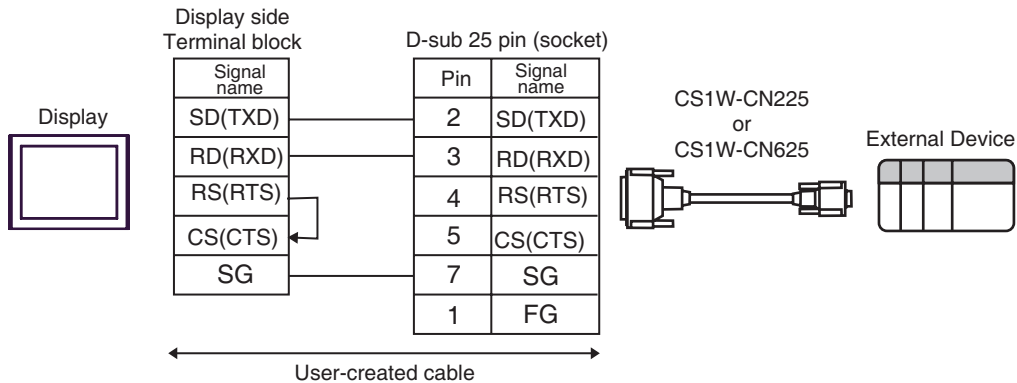
8A)



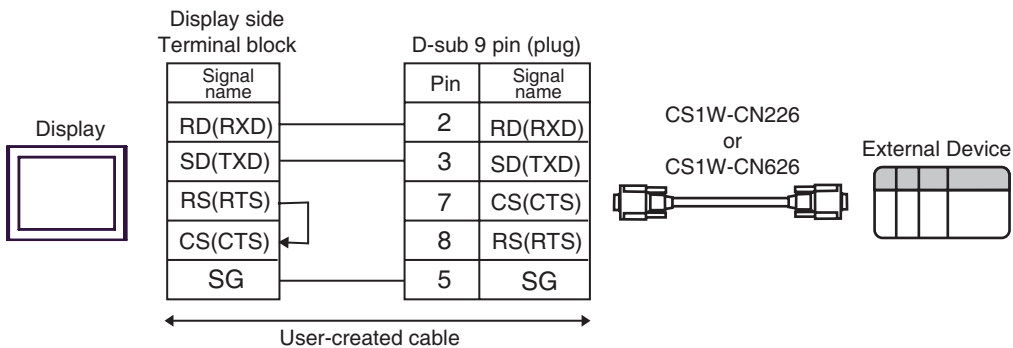
8B)



8C)



8D)



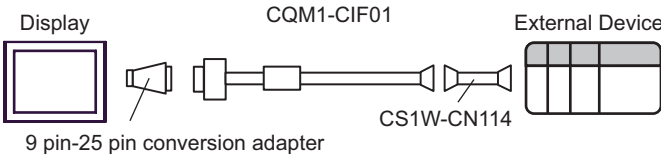
Cable Diagram 9

| Display | Cable | | Remarks |
|--|-------|---|--|
| GP3000 (COM1) ST (COM1) IPC*1 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) | 9B | User-created cable + Isolation cable by OMRON Corporation CQM1-CIF01 + Connector conversion cable by OMRON Corporation CS1W-CN114 | |

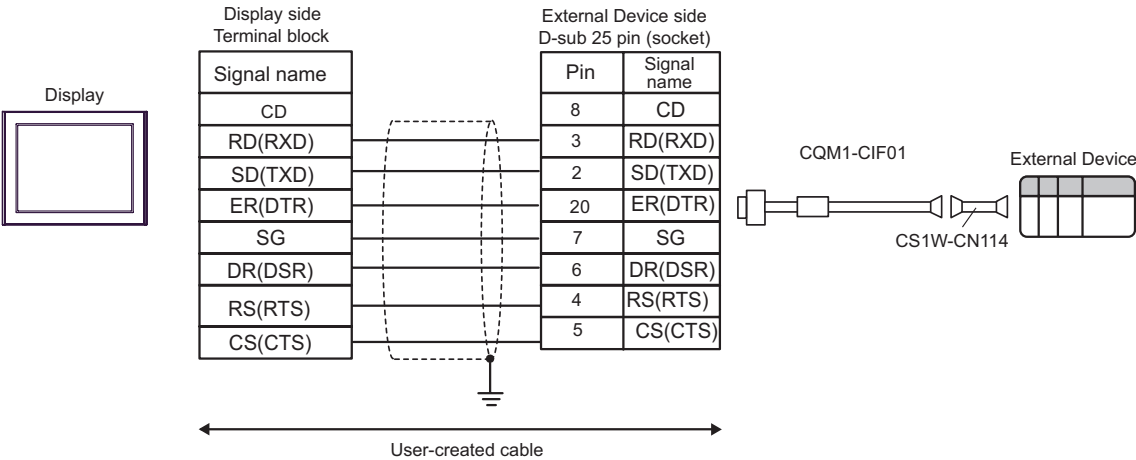
*1 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

9A)



9B




Cable Diagram 10

| Display | Cable | | Remarks |
|---|-------|---|--|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 10E | Online adapter by Pro-face CA4-ADPONL-01 + User-created cable | |
| GP-4106 (COM1) | 10F | User-created cable | |

*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.

 "■ IPC COM Port" (page 12)

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

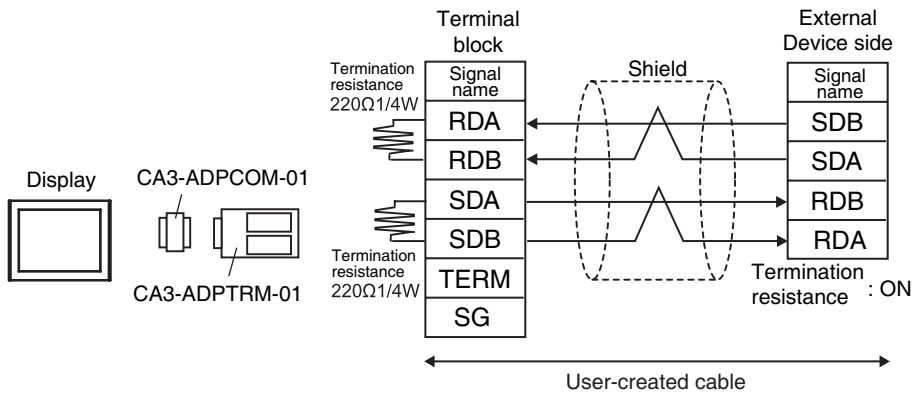


CAUTION

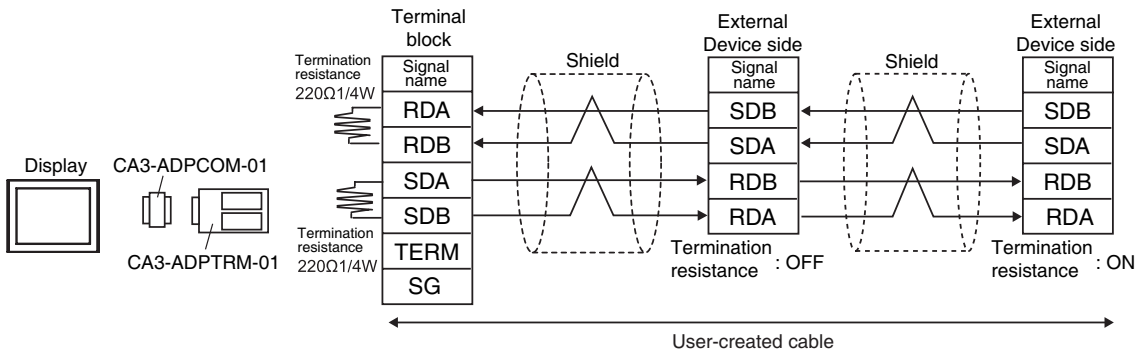
- When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

10A)

- 1:1 Connection



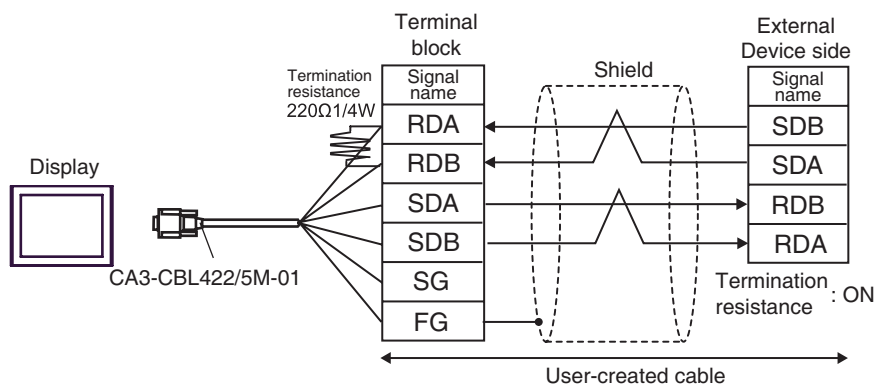
- 1:n Connection

**NOTE**

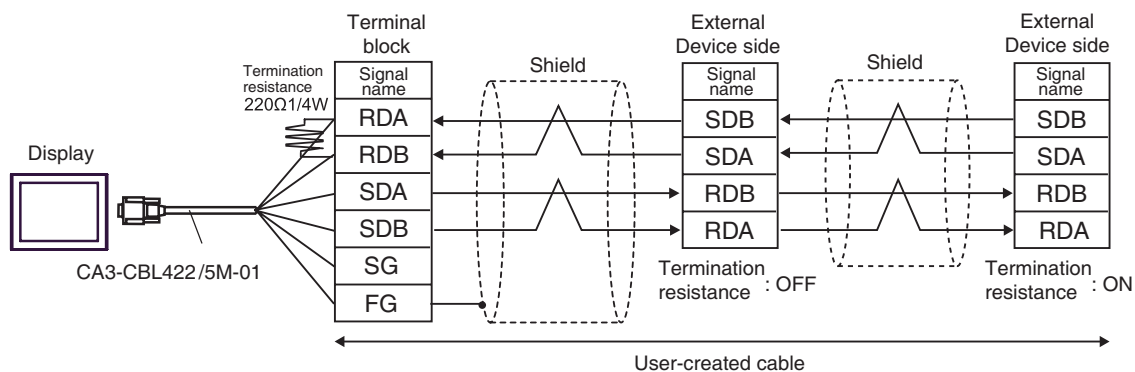
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

10B)

- 1:1 Connection

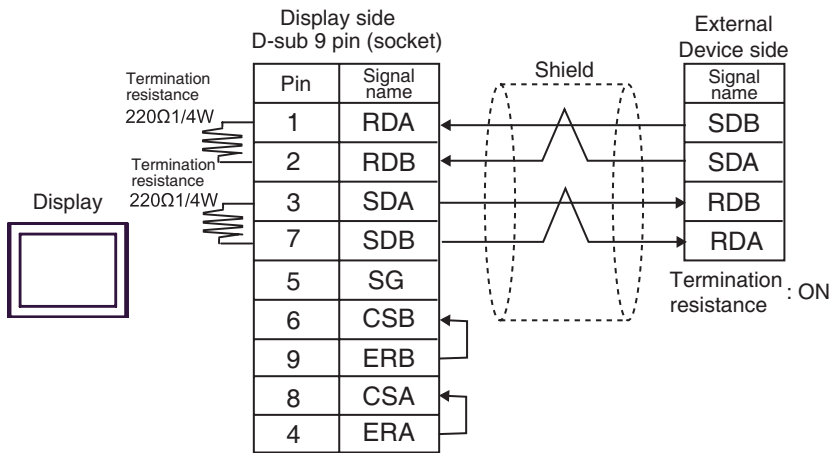


- 1:n Connection

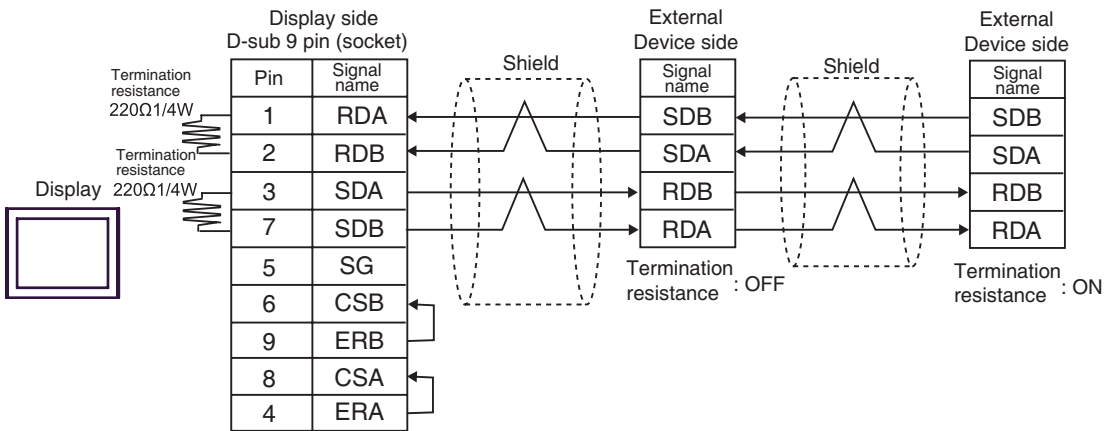


10C)

- 1:1 Connection



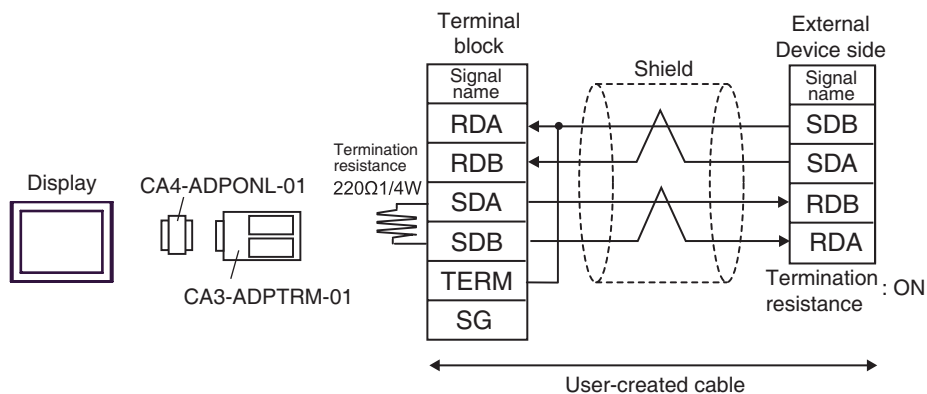
- 1:n Connection



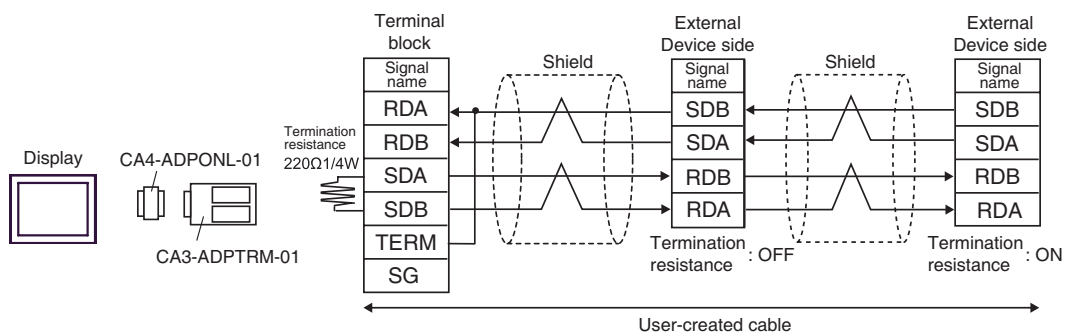
- NOTE**
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

10D)

- 1:1 Connection

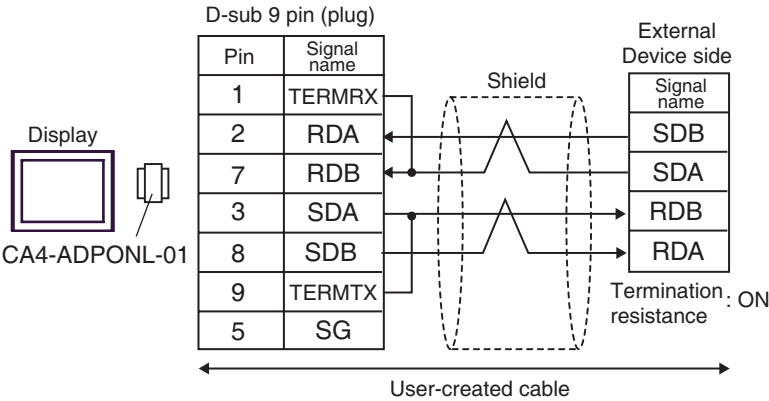


- 1:n Connection

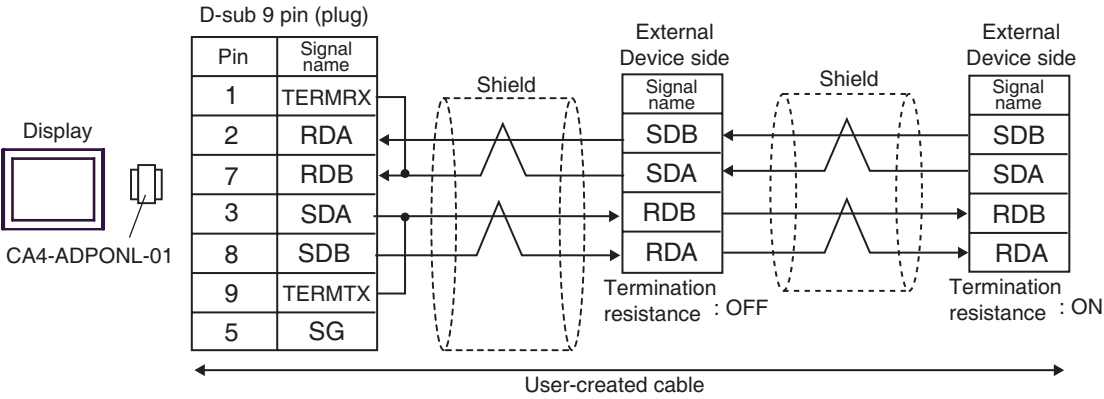


10E)

- 1:1 Connection

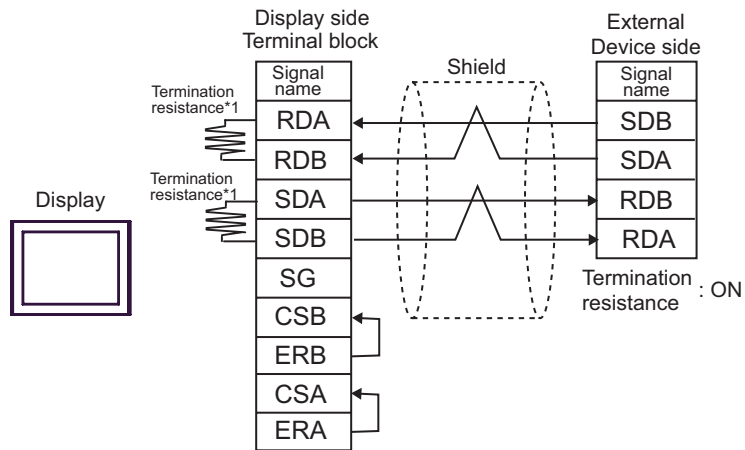


- 1:n Connection

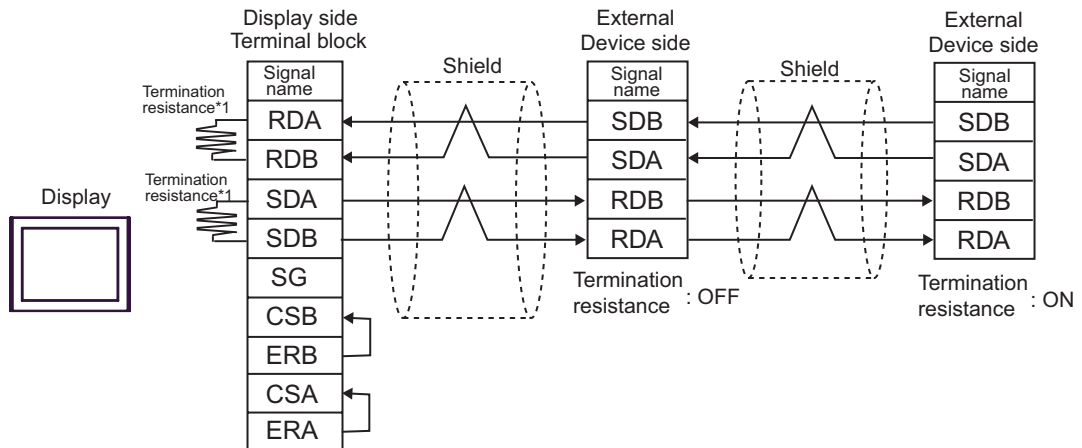


10F)

- 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 |

Cable Diagram 11

| Display | Cable | | Remarks |
|---|-------|---|---|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 11E | Online adapter by Pro-face CA4-ADPONL-01 + User-created cable | |
| GP-4106 (COM1) | 11F | User-created cable | |

*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

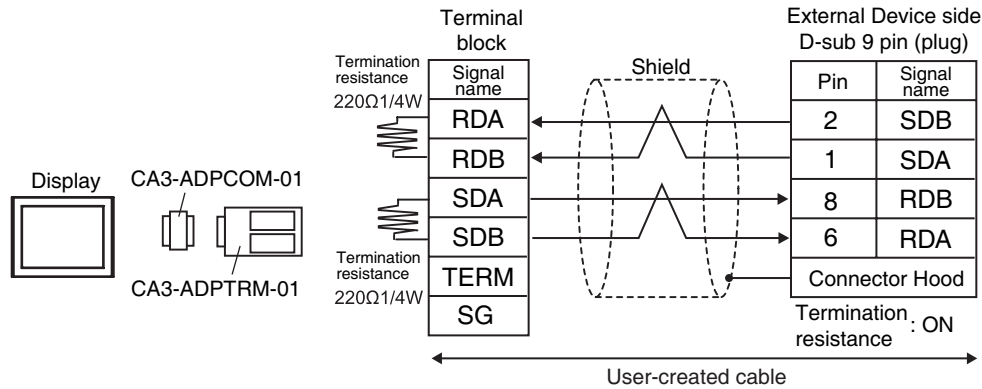
*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

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

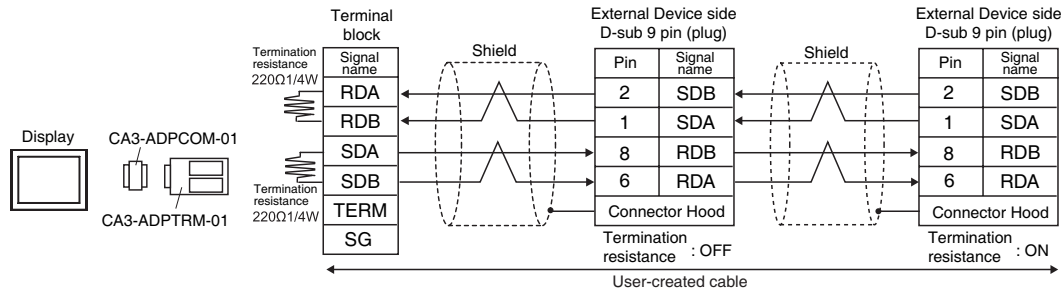
* When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

11A)

- 1:1 Connection



- 1:n Connection

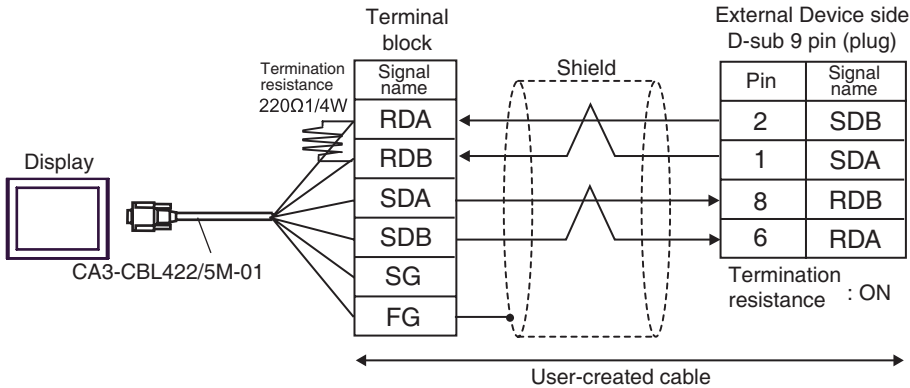


NOTE

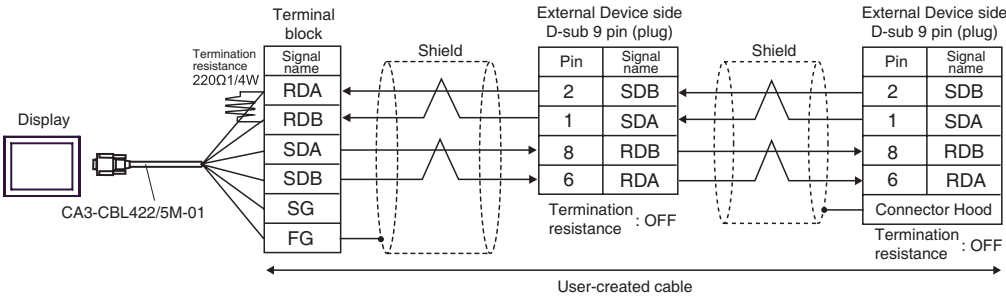
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

11B)

- 1:1 Connection

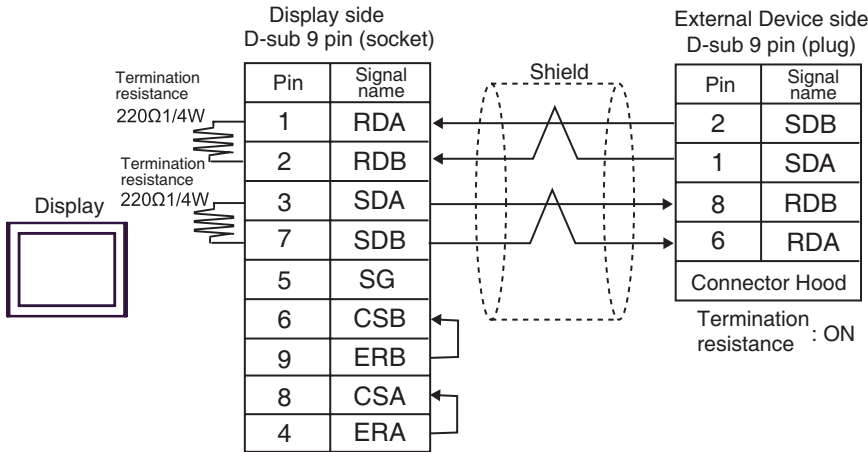


- 1:n Connection

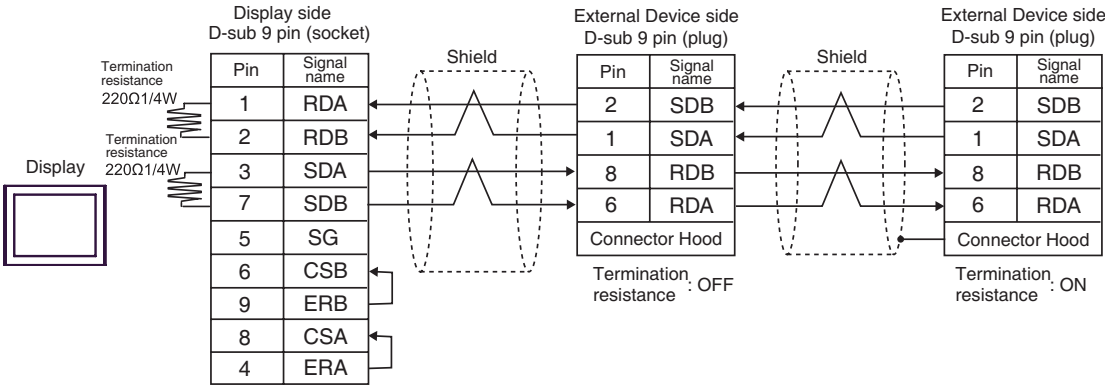


11C)

- 1:1 Connection



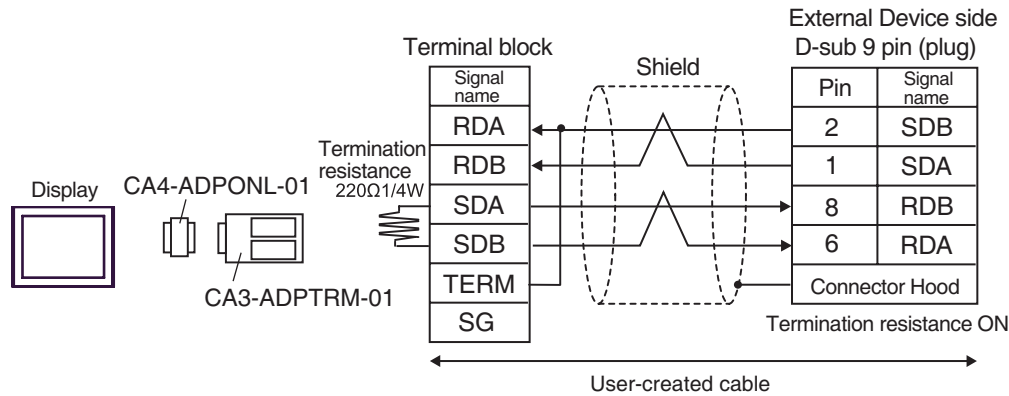
- 1:n Connection



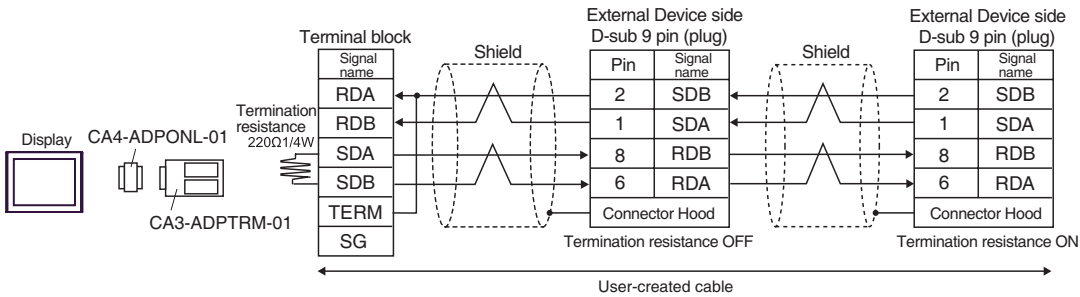
NOTE • When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

11D)

- 1:1 Connection

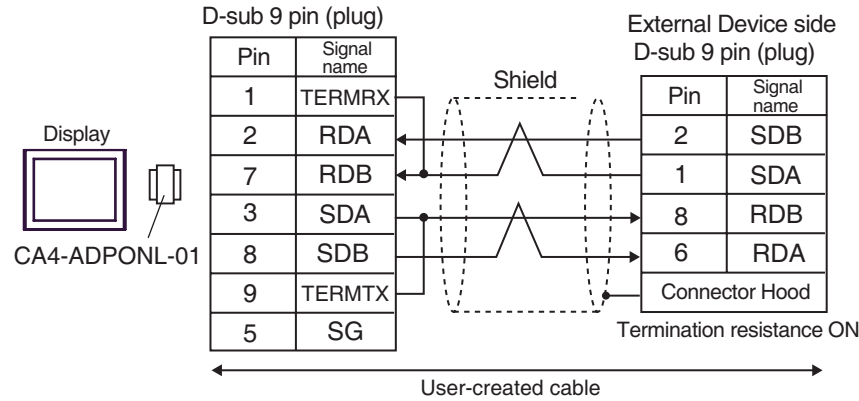


- 1:n Connection

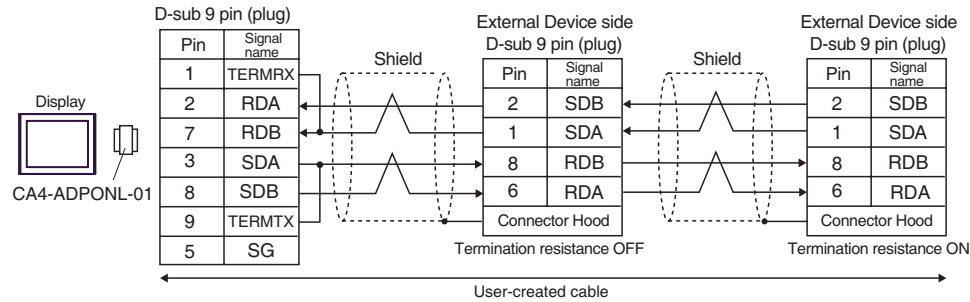


11E)

- 1:1 Connection

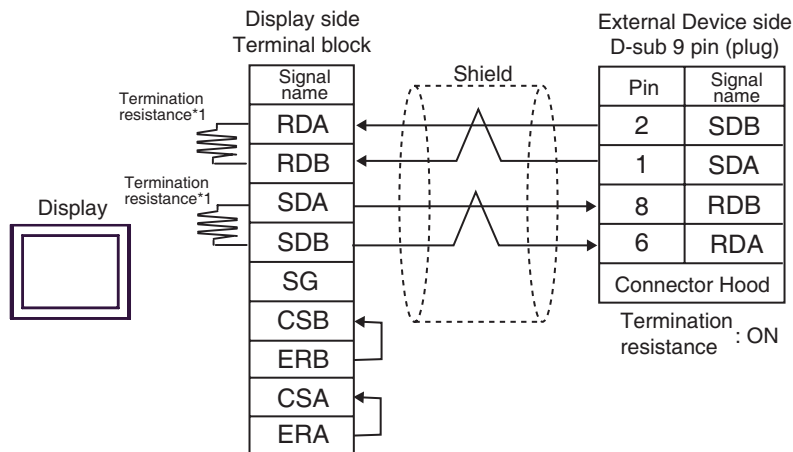


- 1:n Connection

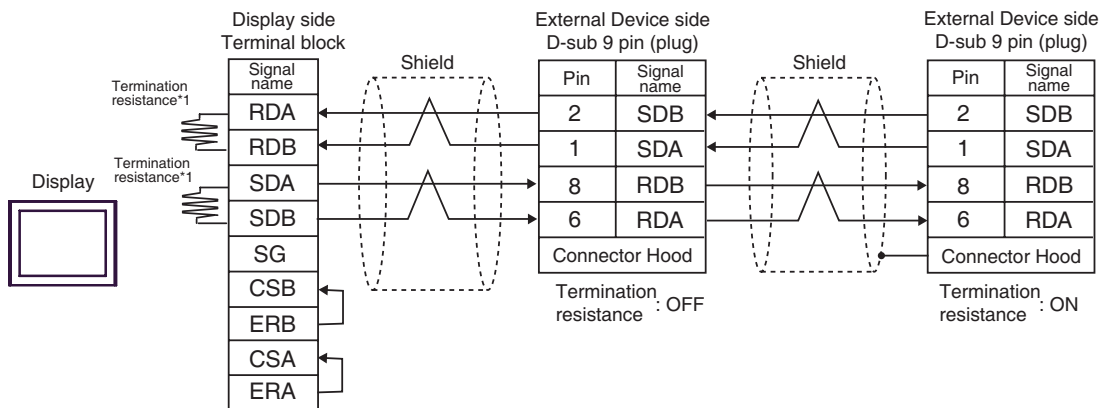


11F)

- 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 |

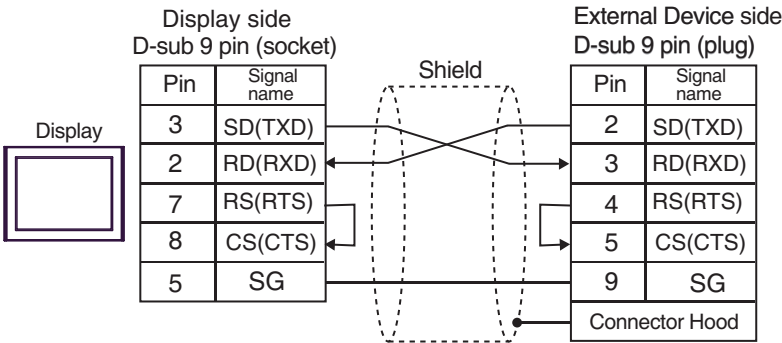
Cable Diagram 12

| Display | Cable | | Remarks |
|--|-------|--------------------|---------------------------------------|
| GP3000 (COM1) ST (COM1) IPC*1 PC/AT | 12A | User-created cable | The cable length must be 15m or less. |
| GP-4105 (COM1) | 12B | User-created cable | |

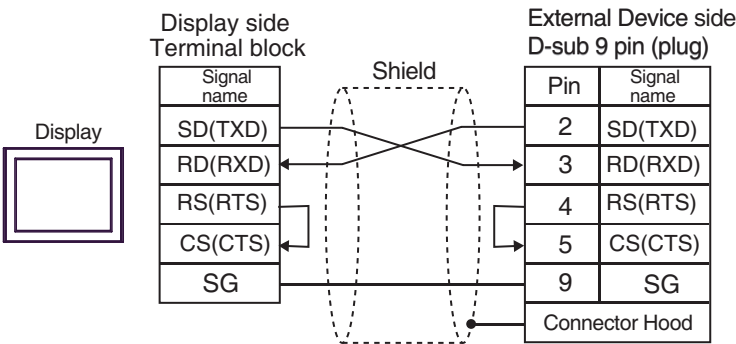
*1 Only the COM port which can communicate by RS-232C can be used.

☞ "■ IPC COM Port" (page 12)

12A)



12B)




Cable Diagram 13

| Display | Cable | | Remarks |
|---|-------|---|---|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 13D | Online adapter by Pro-face CA4-ADPONL-01 + User-created cable | |
| GP-4106 (COM1) | 13E | User-created cable | |

*1 All GP3000 models except AGP-3302B

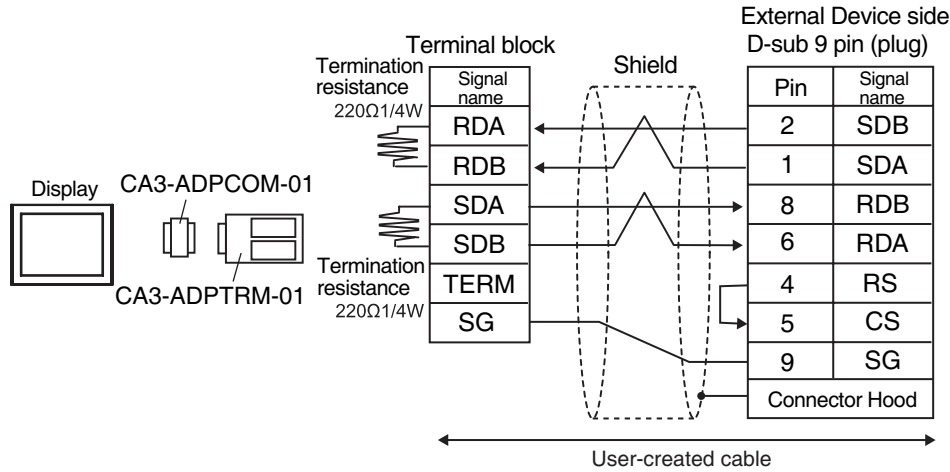
*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

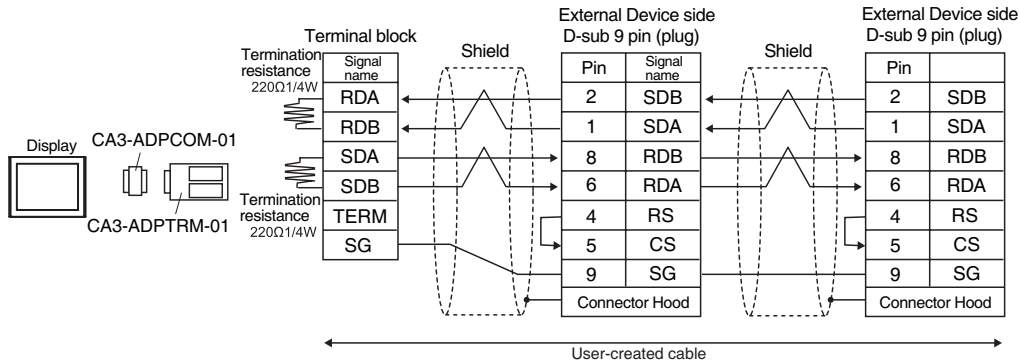
*4 All GP3000 models except GP-3200 series and AGP-3302B

13A)

- 1:1 Connection



- 1:n Connection

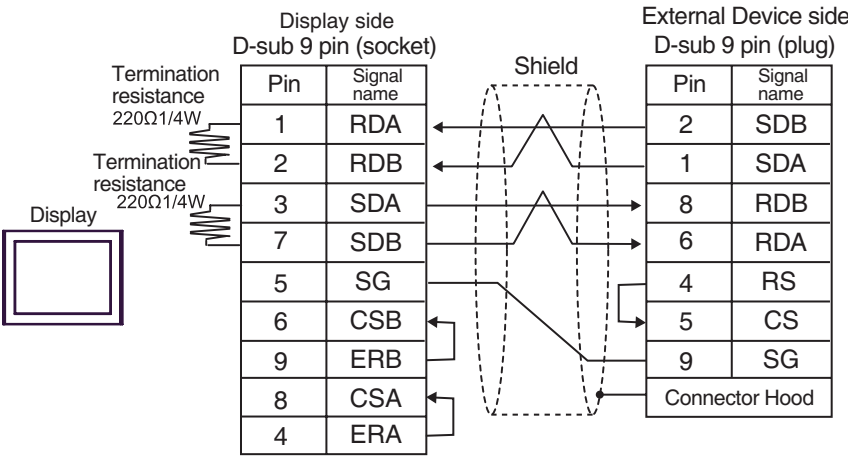


NOTE

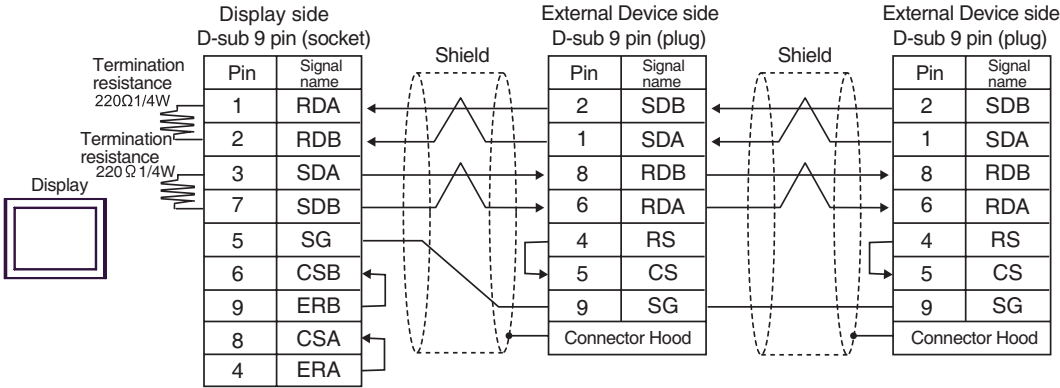
- When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

13B)

- 1:1 Connection



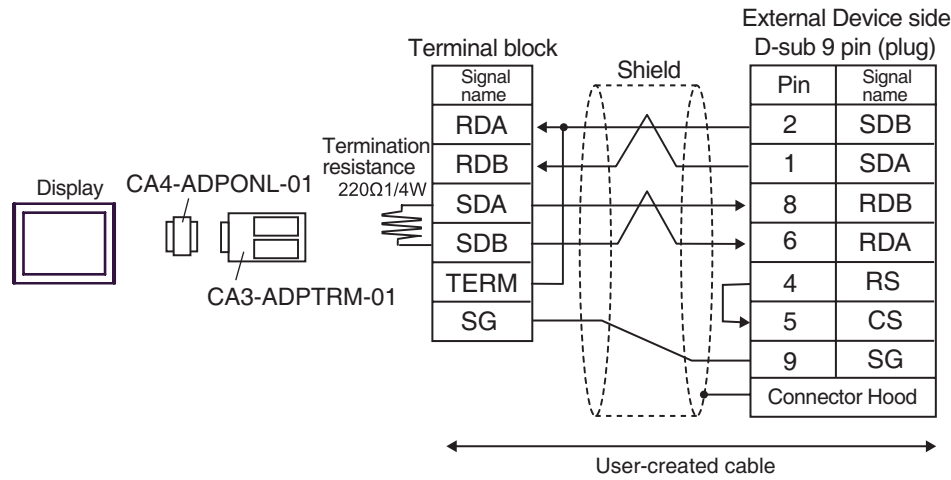
- 1:n Connection



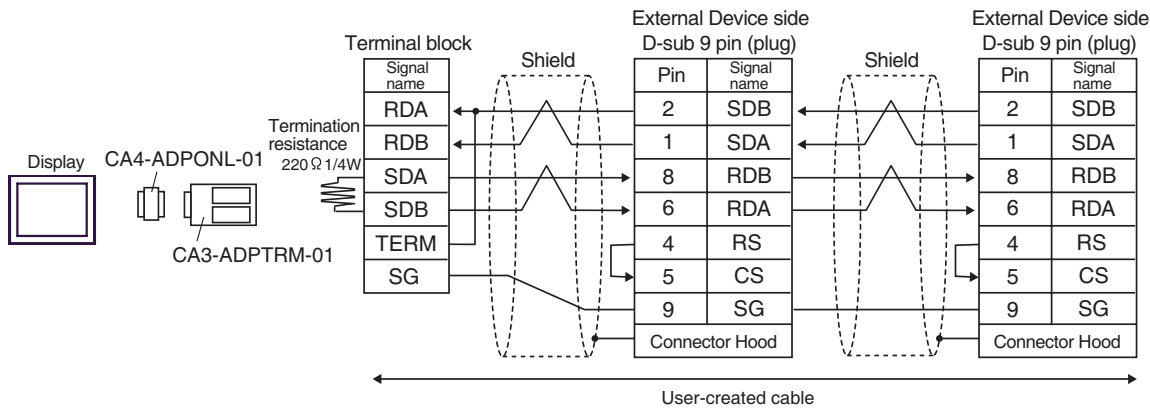
NOTE • When the display unit you use is an IPC, turn ON the DIP switches 5 and 6 to insert the termination resistance.

13C)

- 1:1 Connection

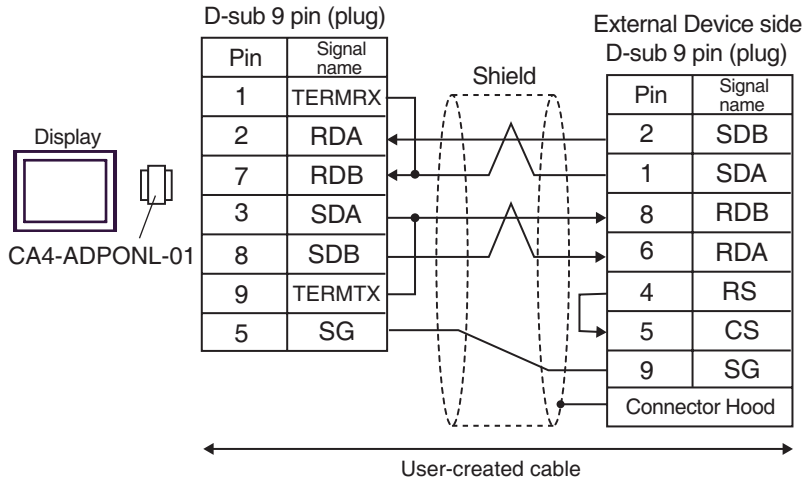


- 1:n Connection

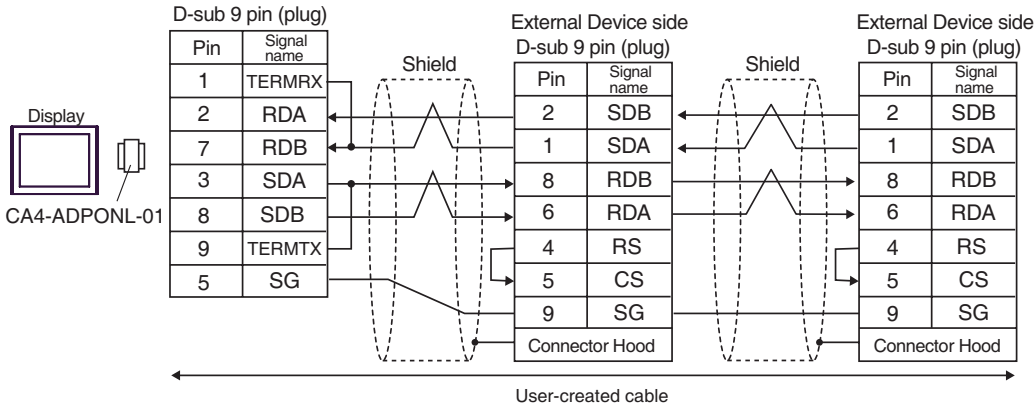


13D)

- 1:1 Connection

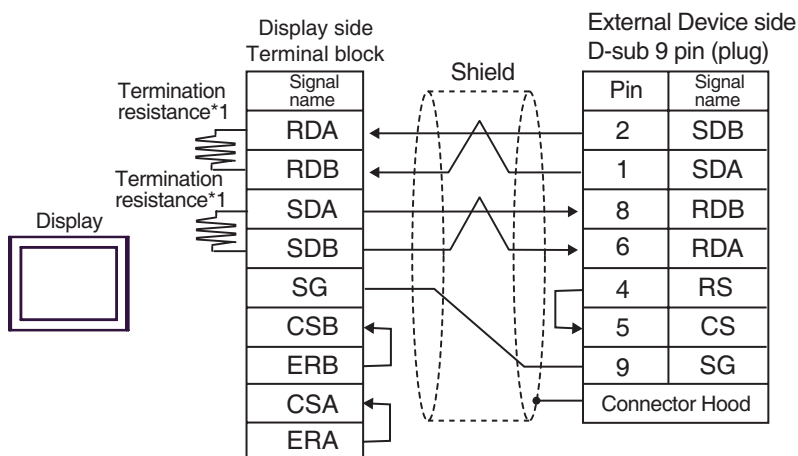


- 1:n Connection

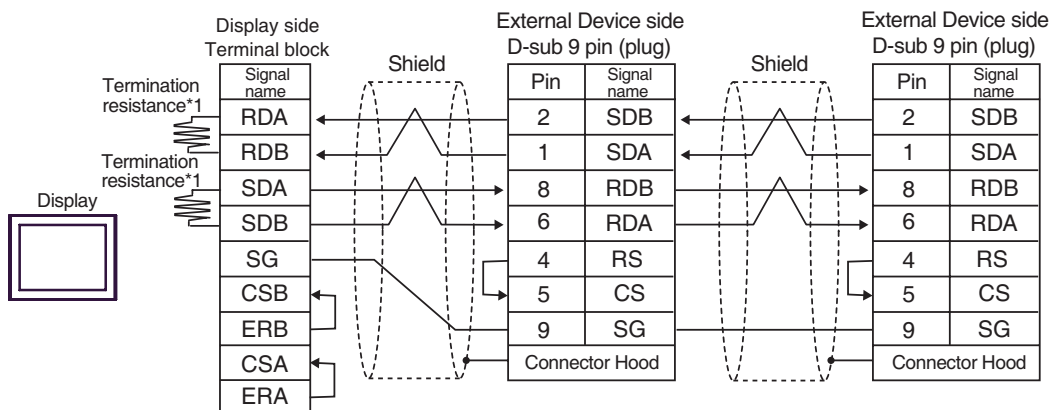


13E)

- 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 |

Cable Diagram 14

| Display (Connection Port) | Cable | | Notes |
|---|-------|---|------------------------|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 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) | 14G | User-created cable | |

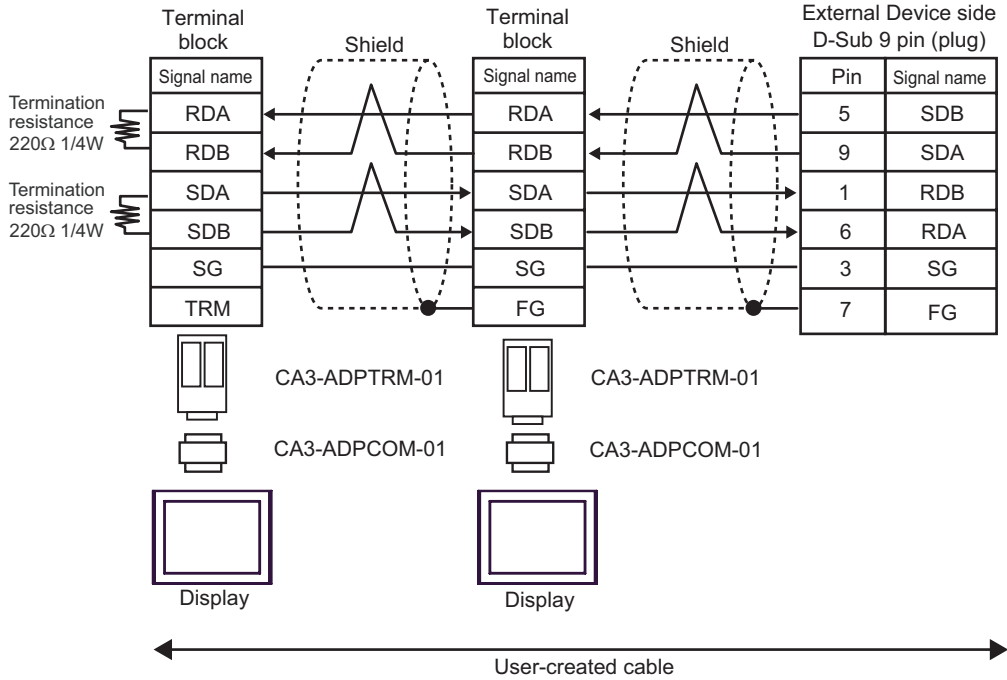
*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

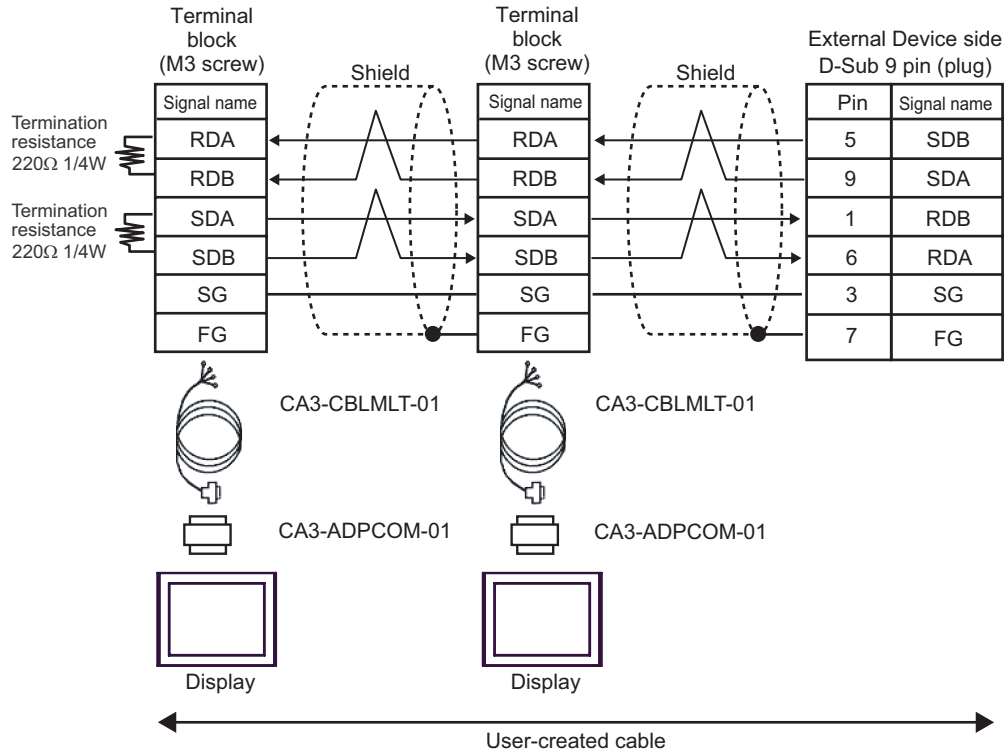
*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

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

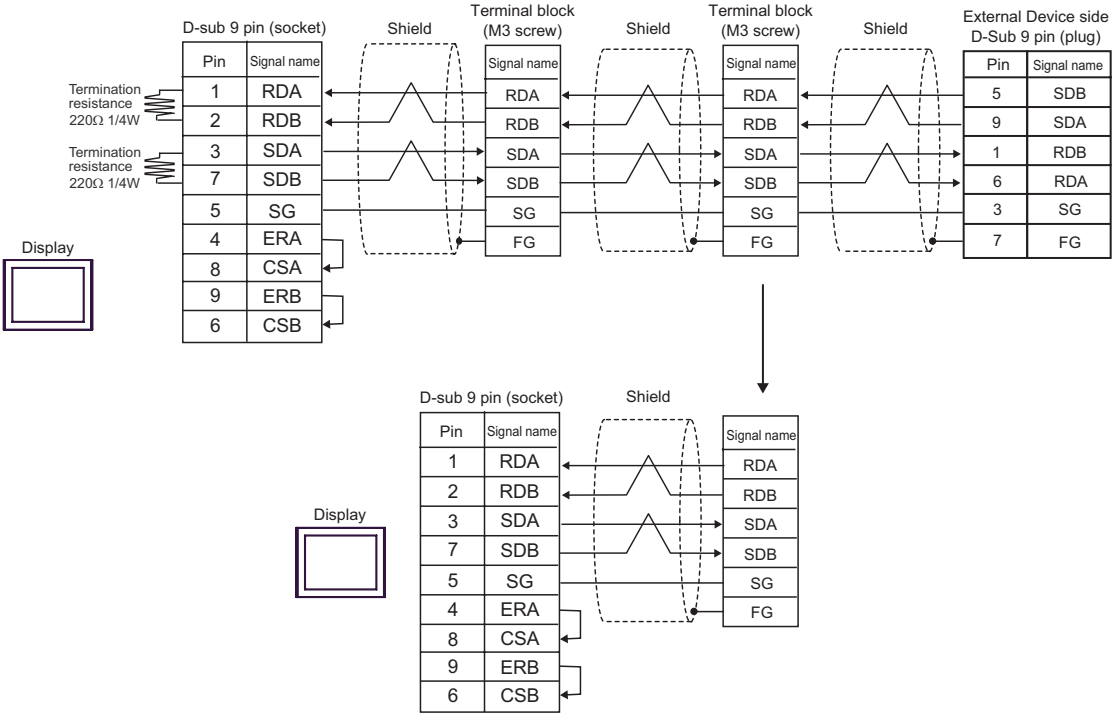
14A)



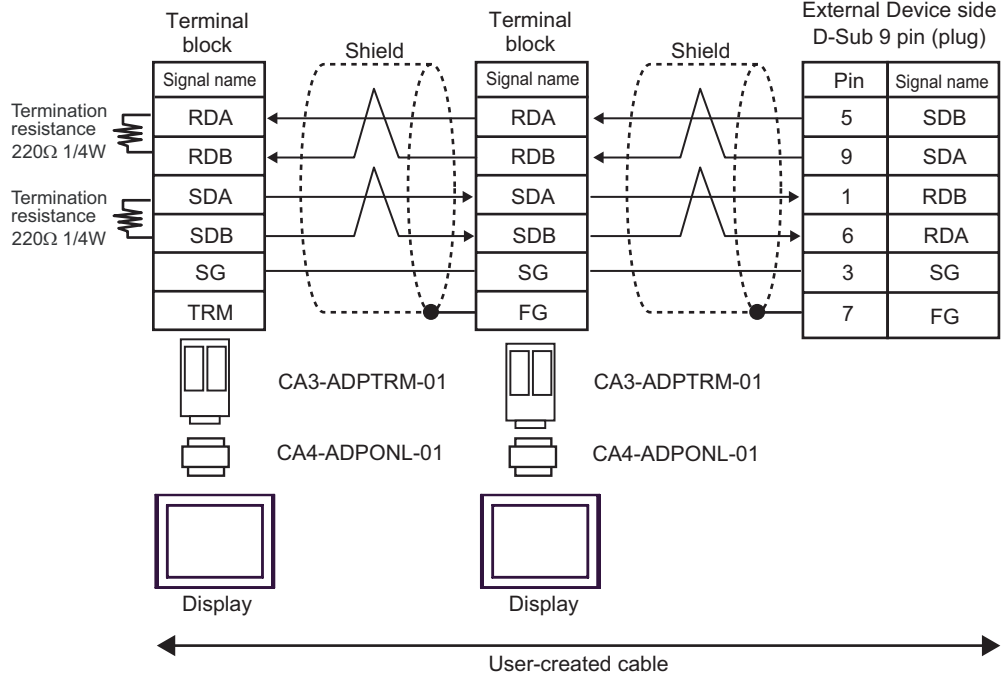
14B)



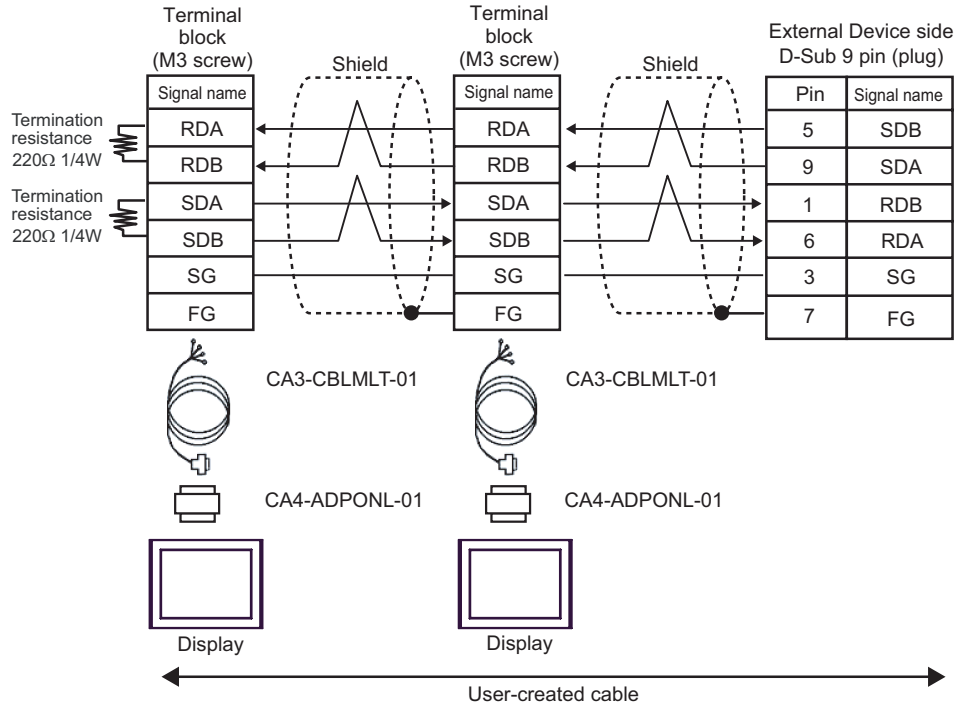
14C)



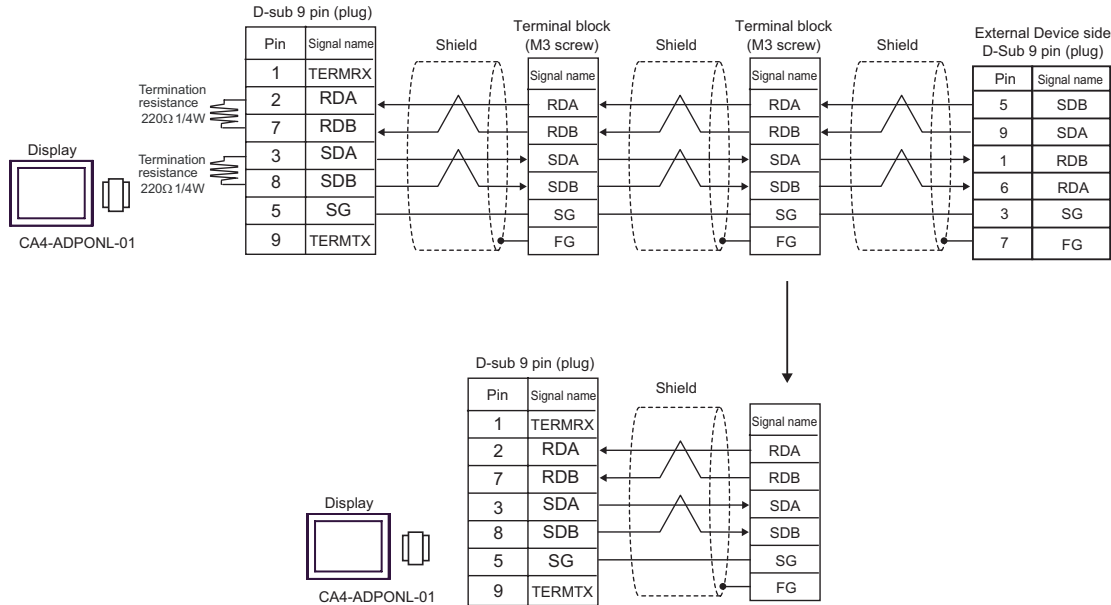
14D)



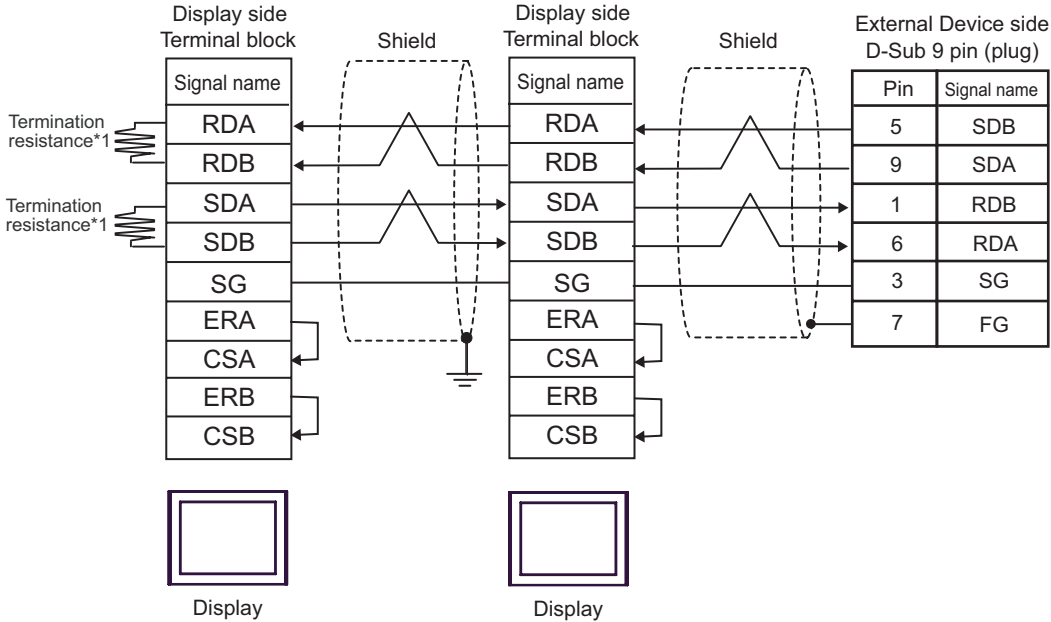
14E)



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.

Cable Diagram 15

| Display (Connection Port) | Cable | | Notes |
|---|-------|---|------------------------|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 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) | 15G | User-created cable | |

*1 All GP3000 models except AGP-3302B

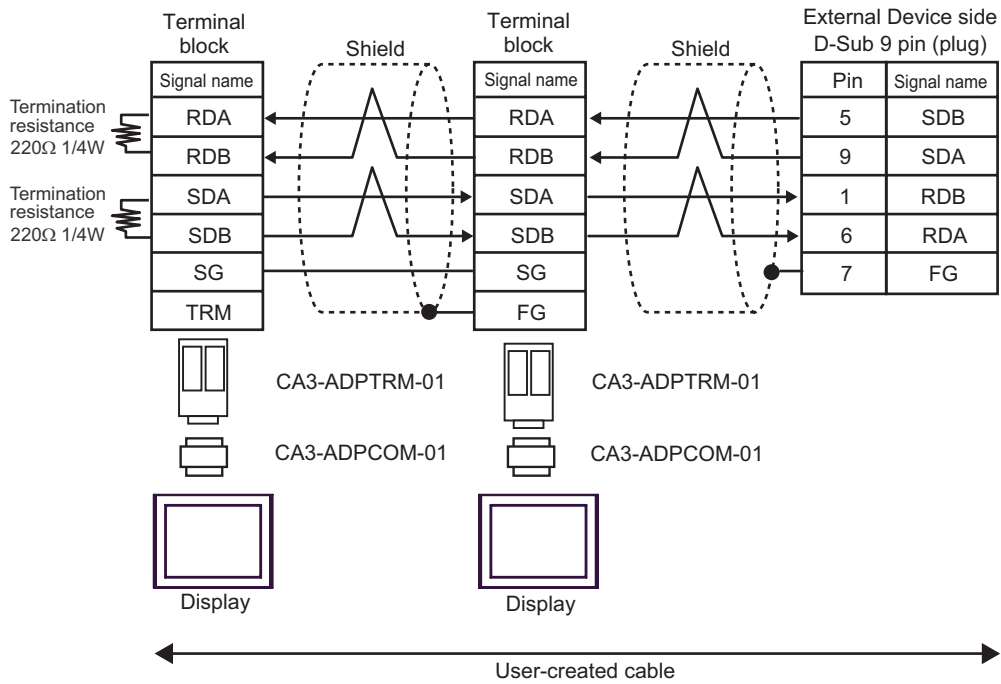
*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.

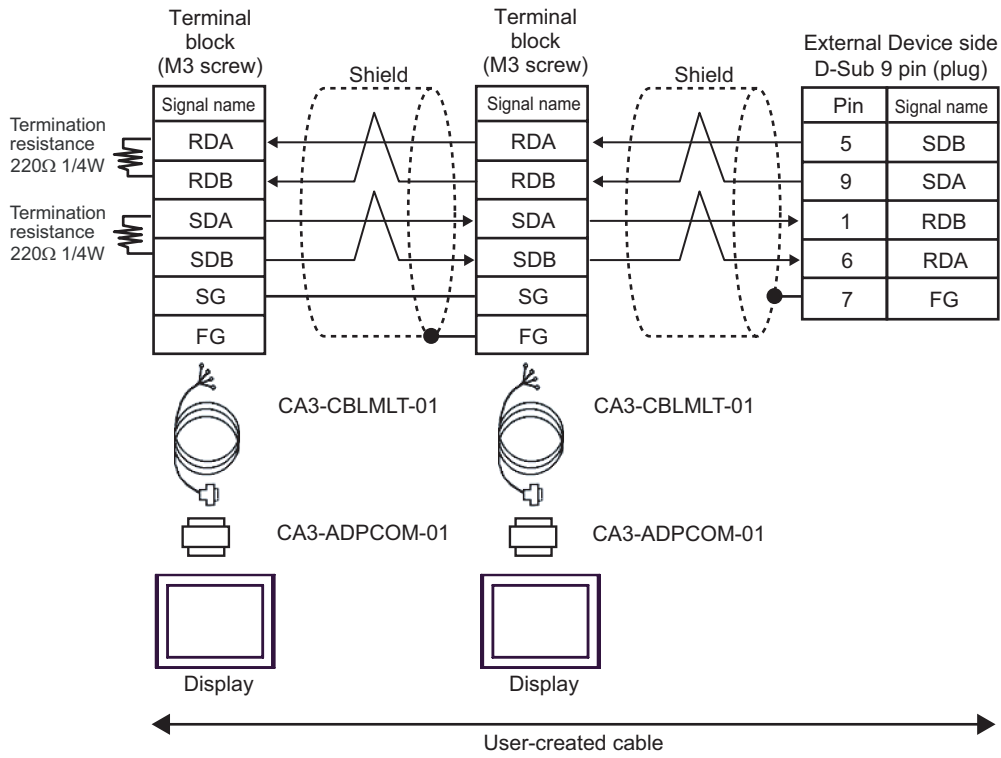
 "■ IPC COM Port" (page 12)

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

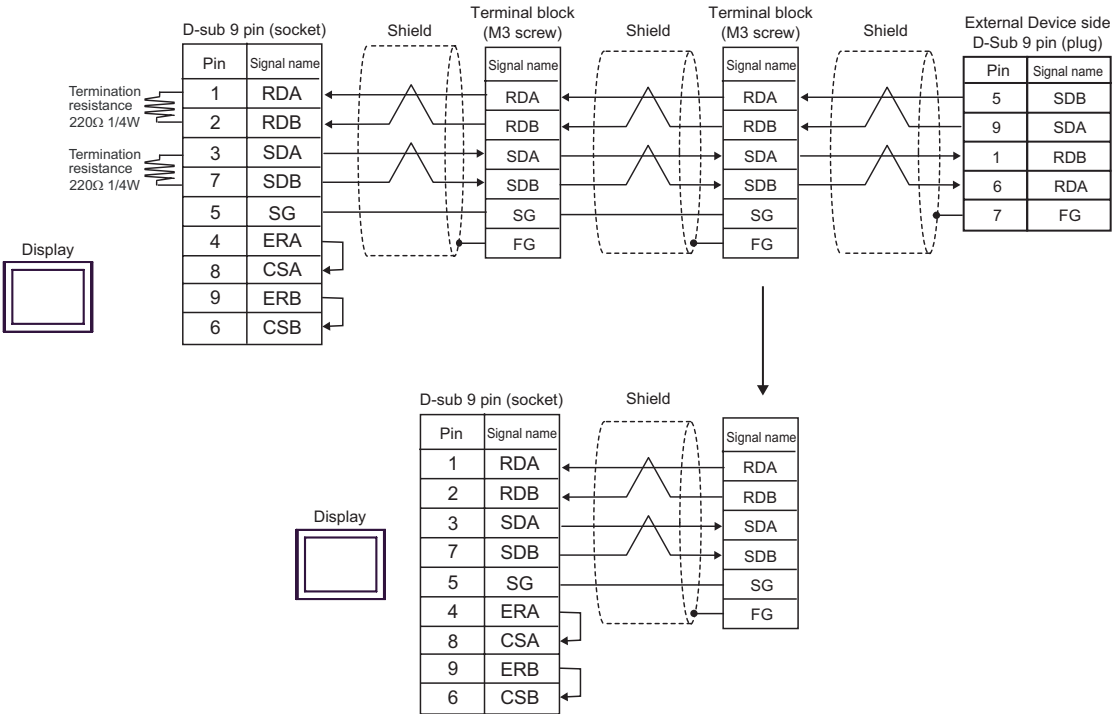
15A)



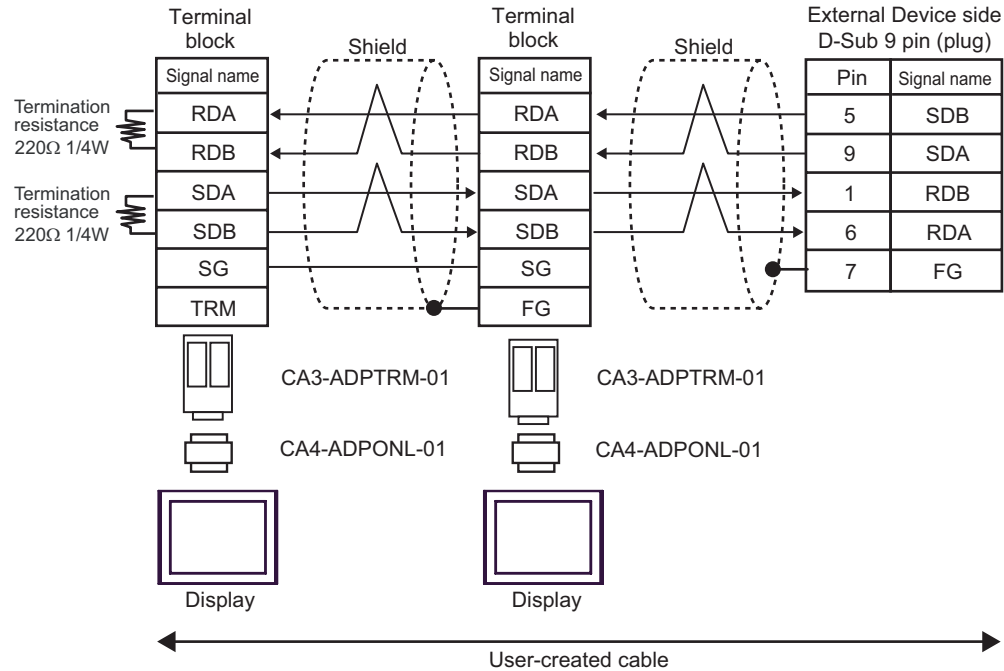
15B)



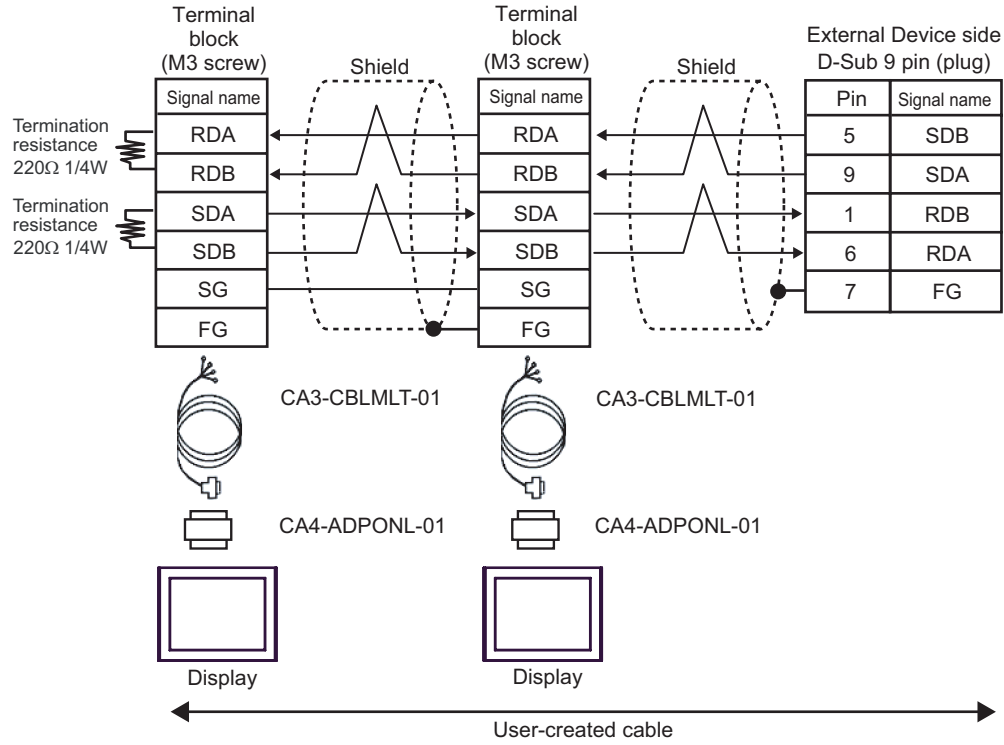
15C)



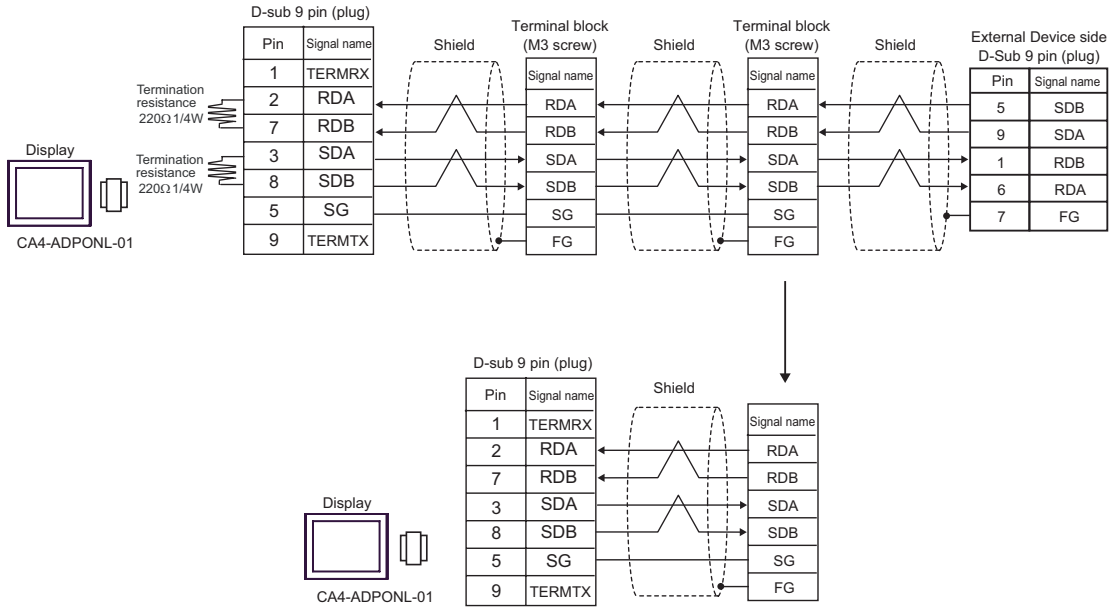
15D)



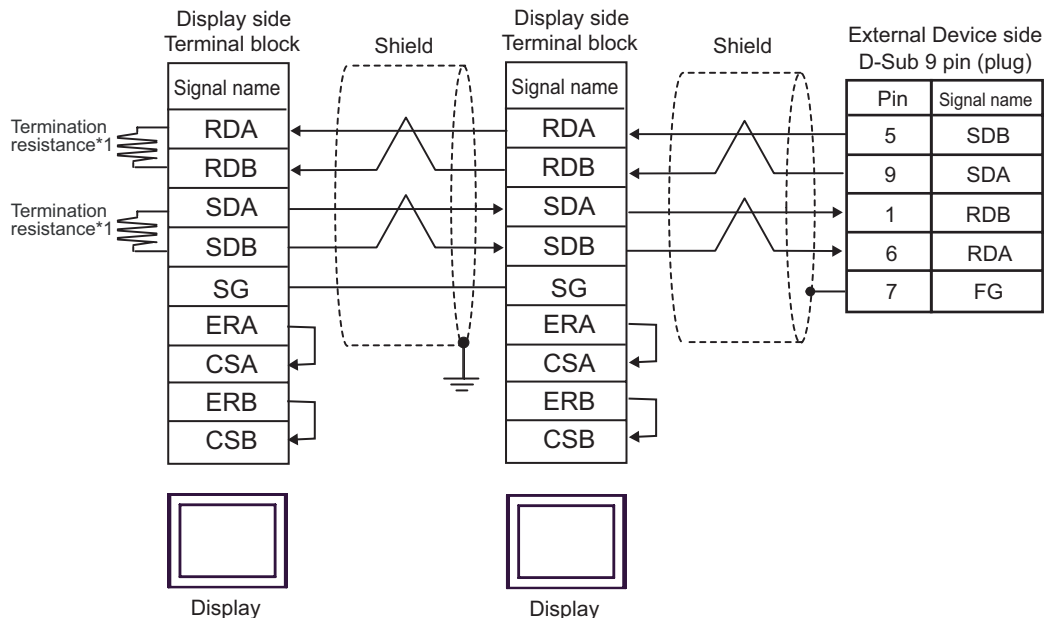
15E)



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:1 connection.

Cable Diagram 16

| Display (Connection Port) | Cable | | Notes |
|---|-------|---|------------------------|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 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) | 16G | User-created cable | |

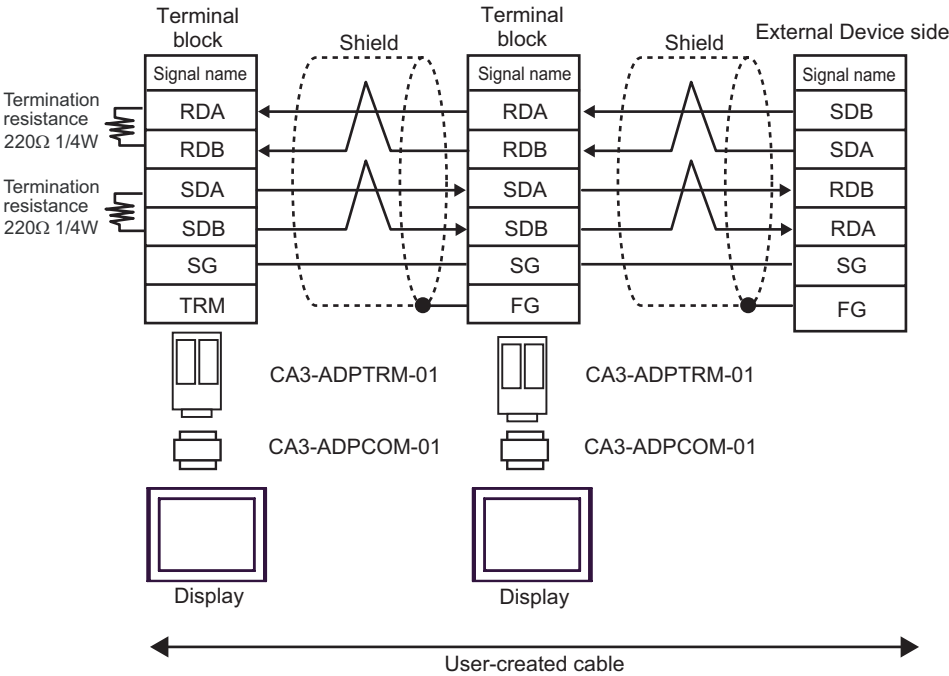
*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

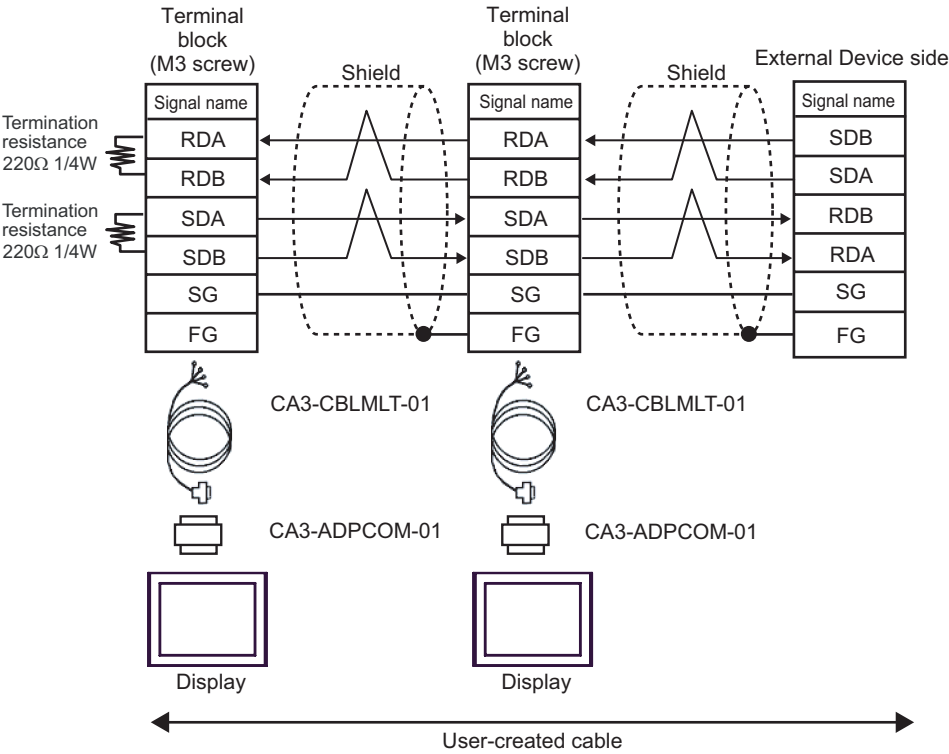
*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.
 "■ IPC COM Port" (page 12)

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

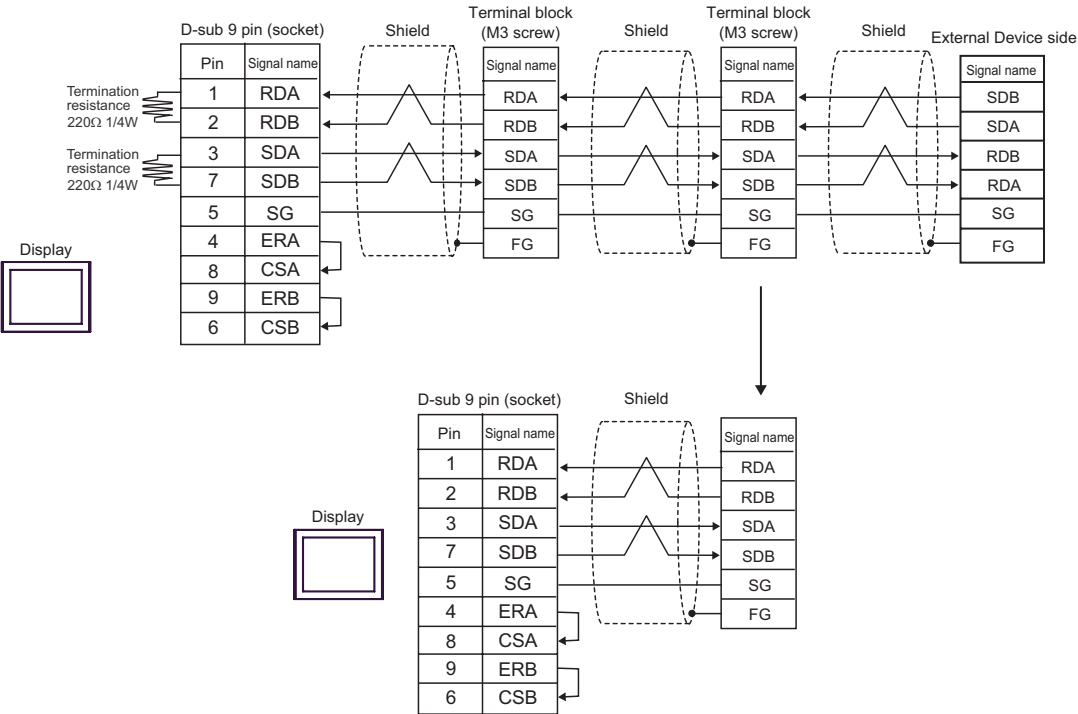
16A)



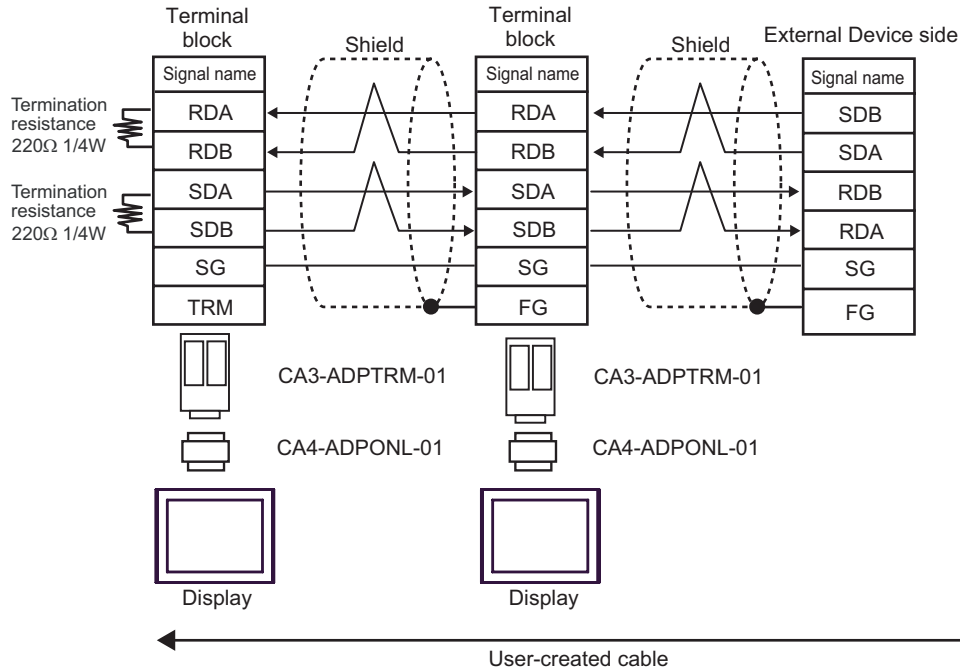
16B)



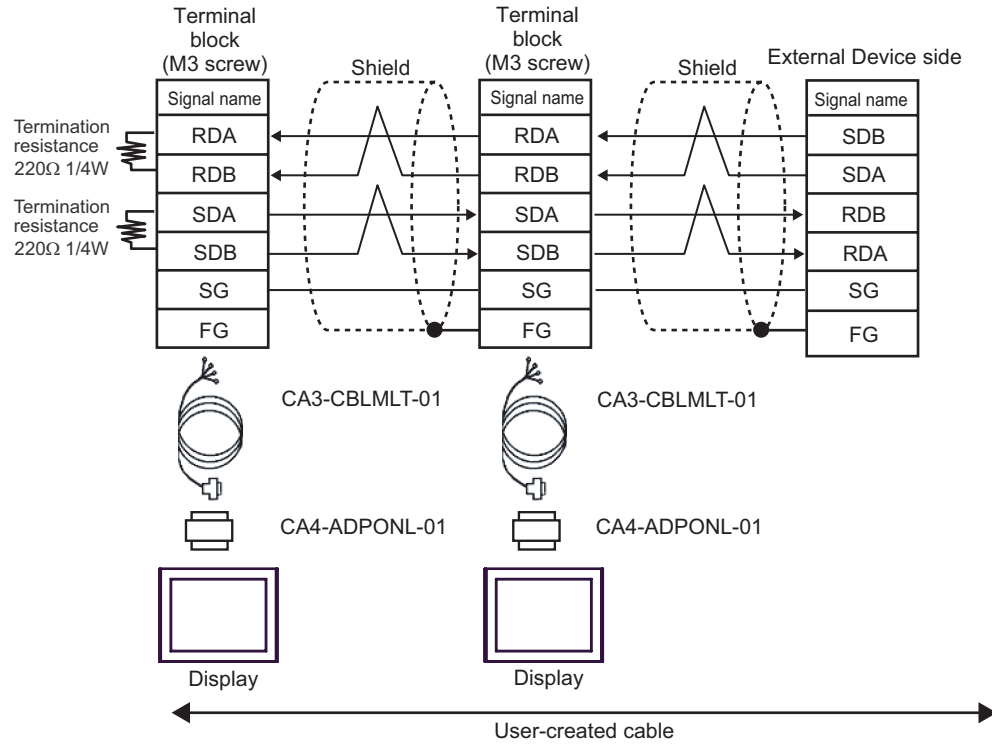
16C)



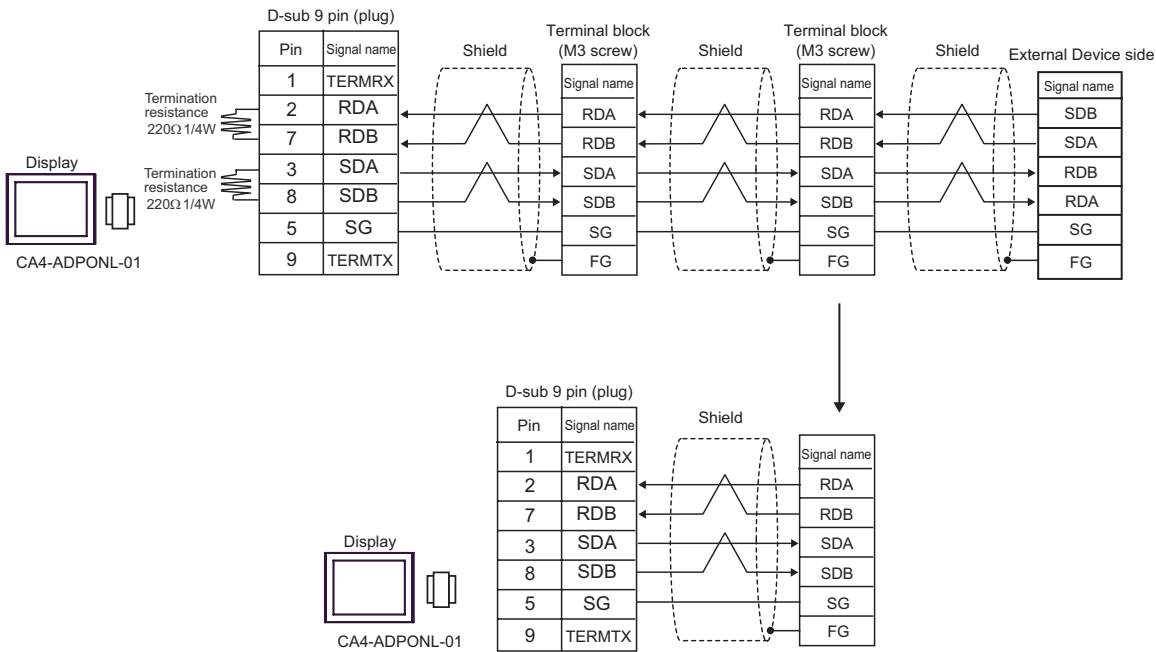
16D)



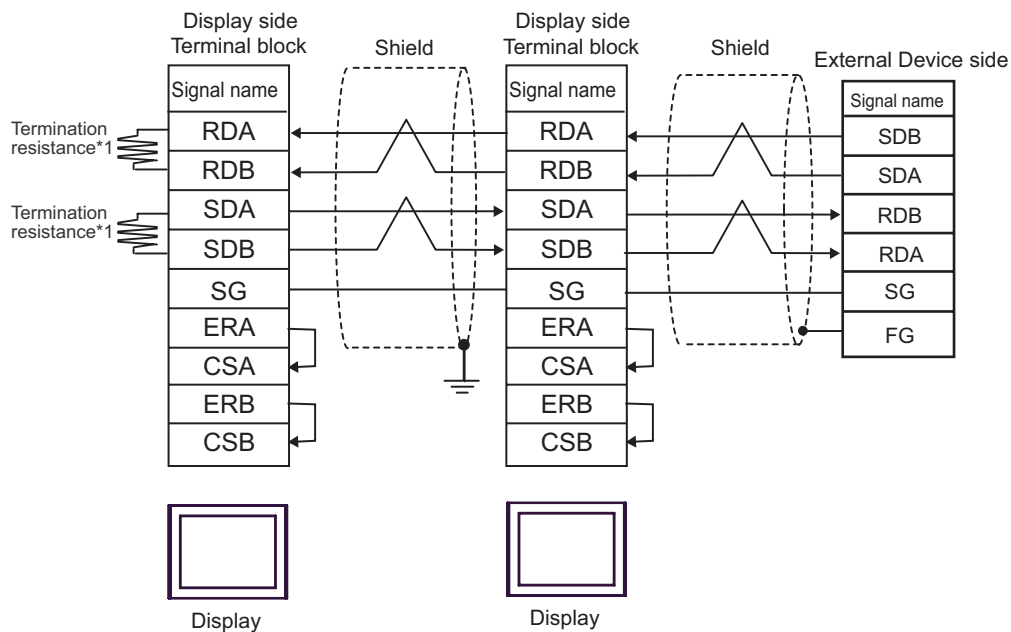
16E)



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.


Cable Diagram 17

| Display (Connection Port) | Cable | | Notes |
|---|-------|---|------------------------|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 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) | 17G | User-created cable | |

*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.

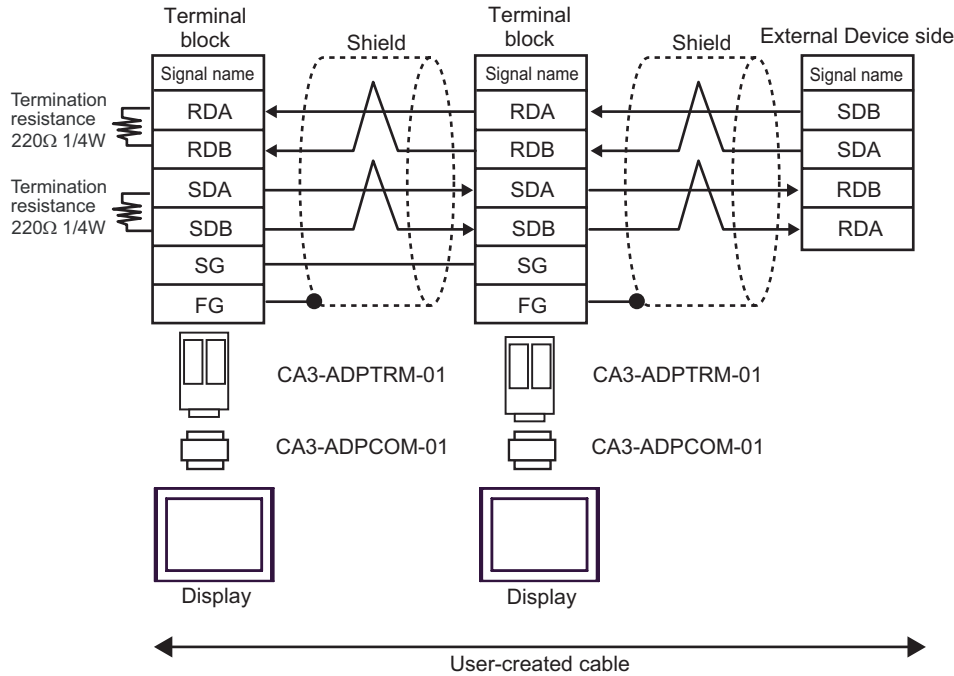
 "■ IPC COM Port" (page 12)

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

NOTE

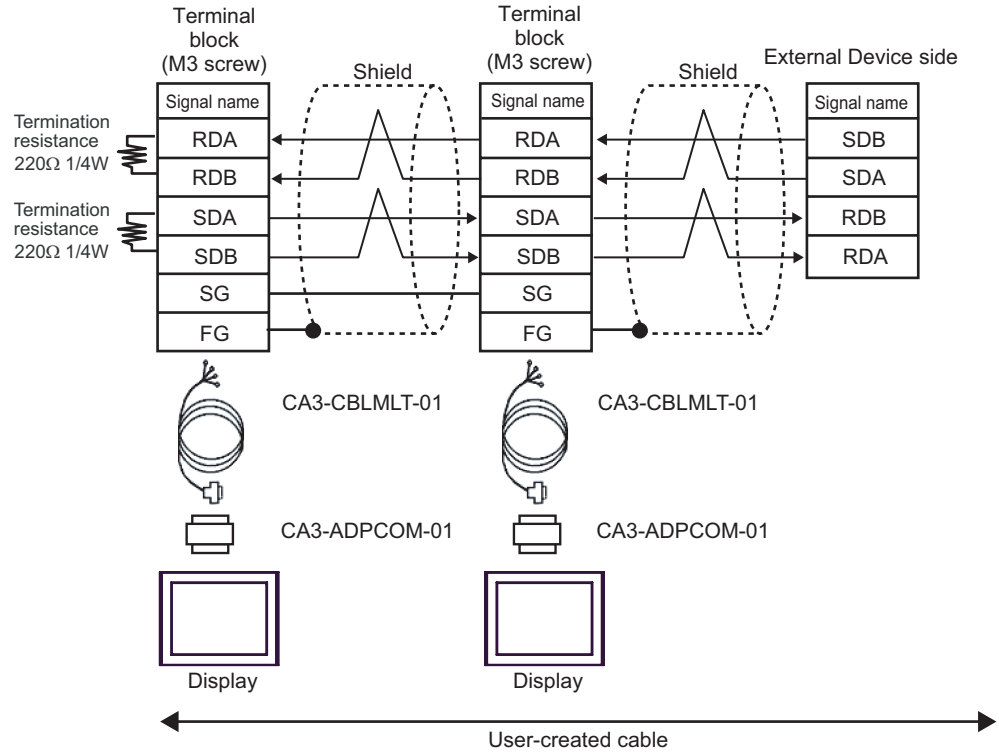
- When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

17A)



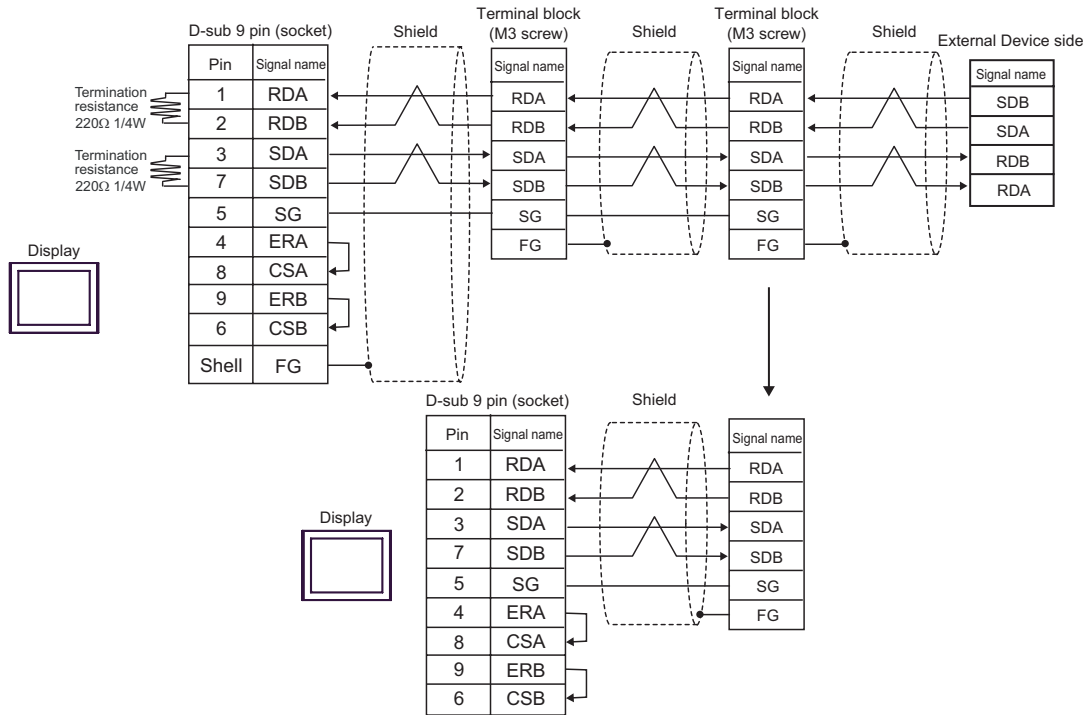
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17B)



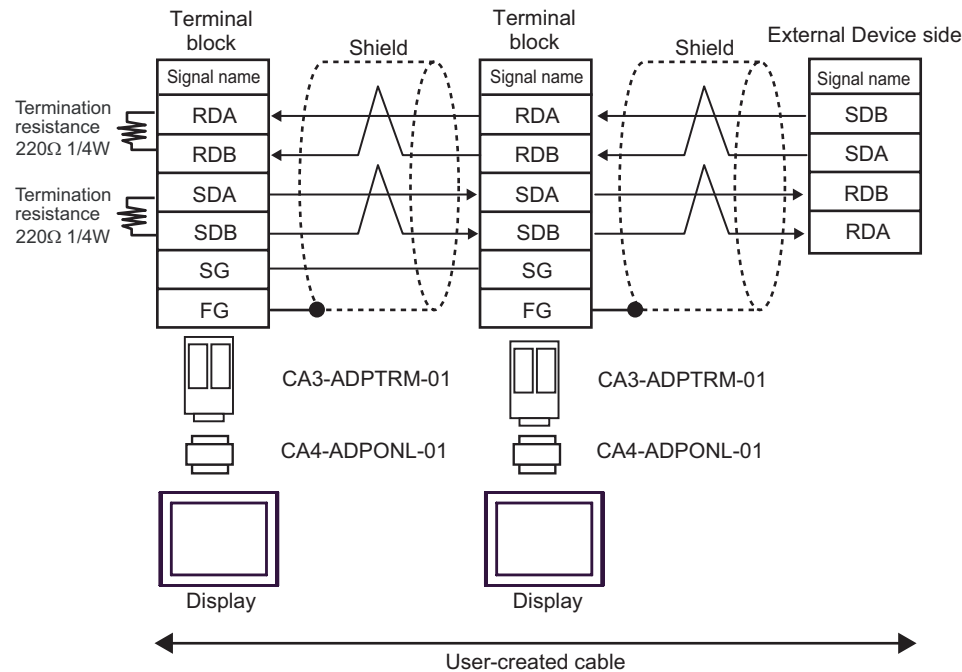
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17C)



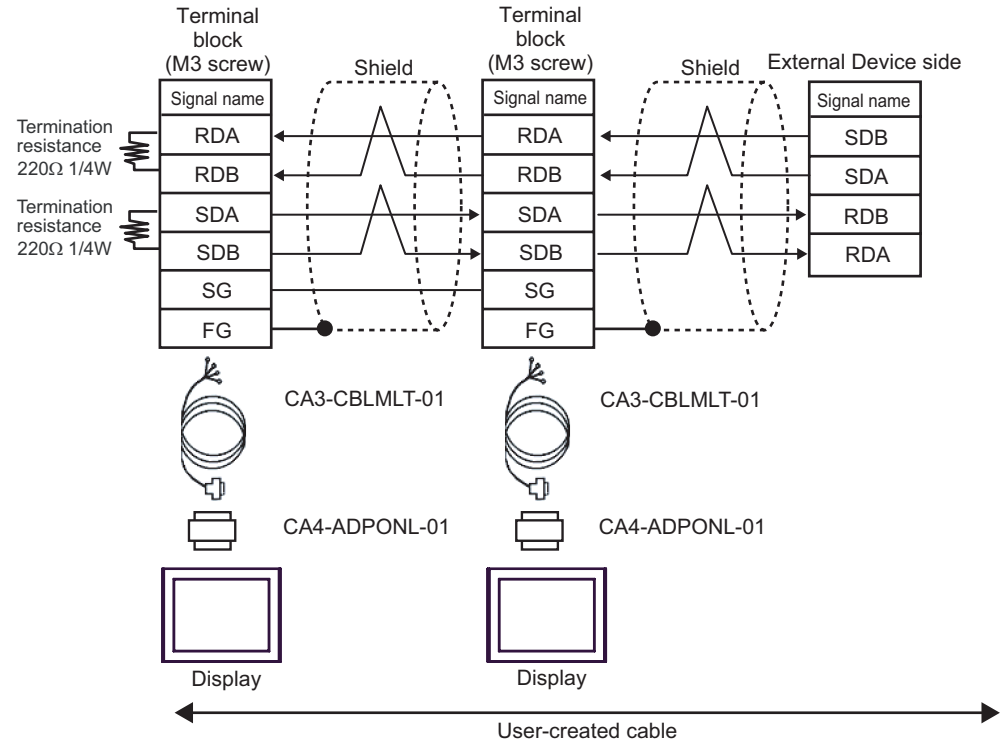
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17D)



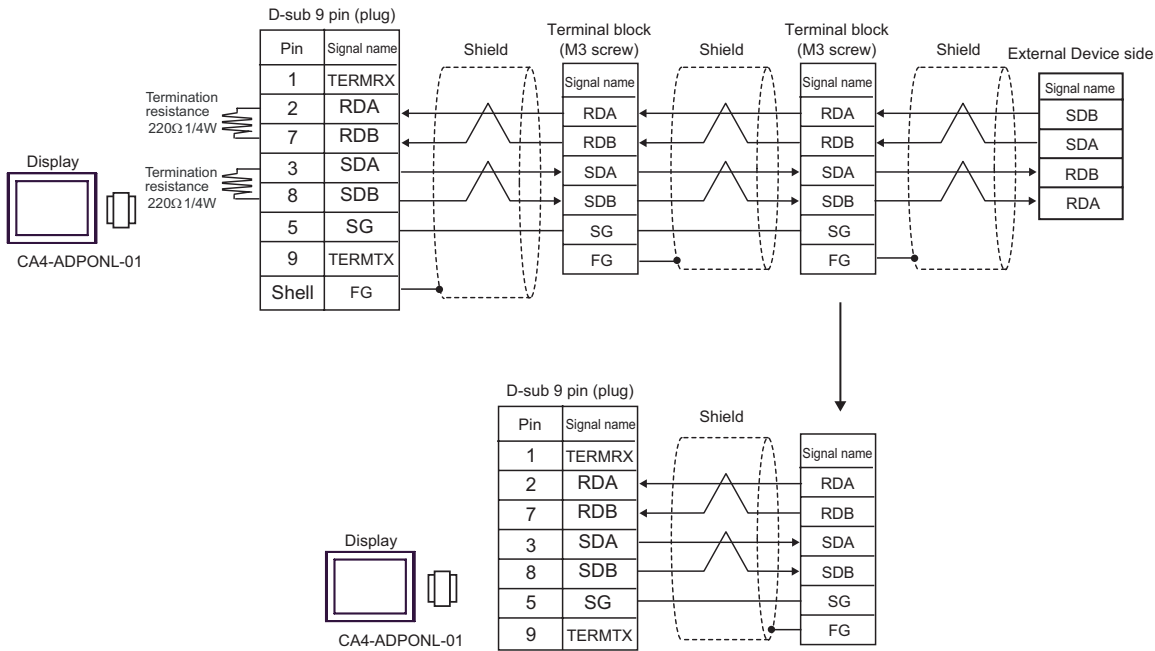
NOTE • Turn on the termination resistor switch on the External Device located at the end.

17E)



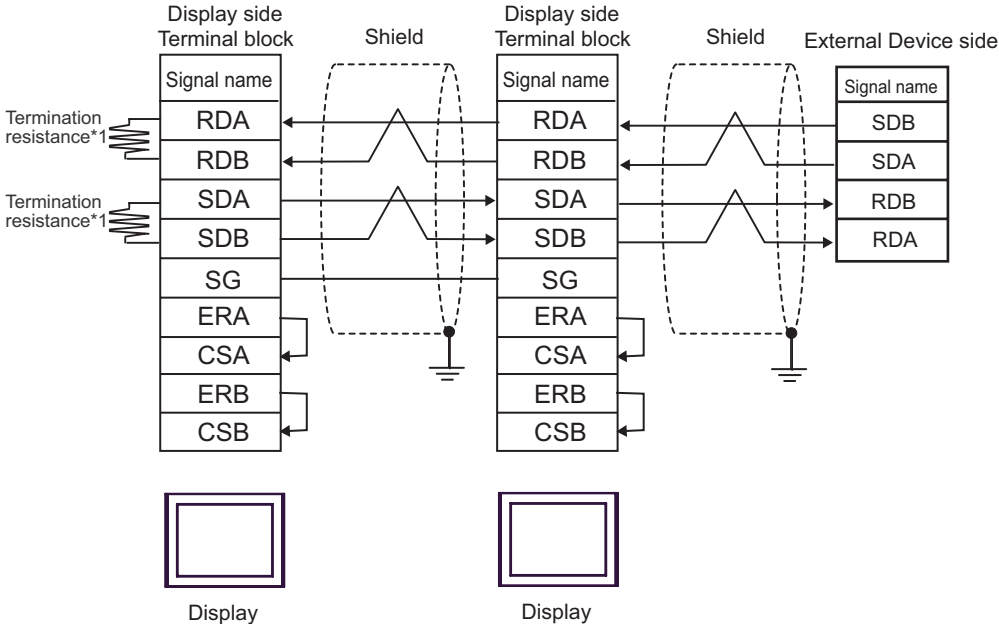
NOTE • Turn on the termination resistor switch on the External Device located at the end.

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.

Cable Diagram 18

| Display (Connection Port) | Cable | | Notes |
|---|-------|---|------------------------|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 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) | 18G | User-created cable | |

*1 All GP3000 models except AGP-3302B

*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.

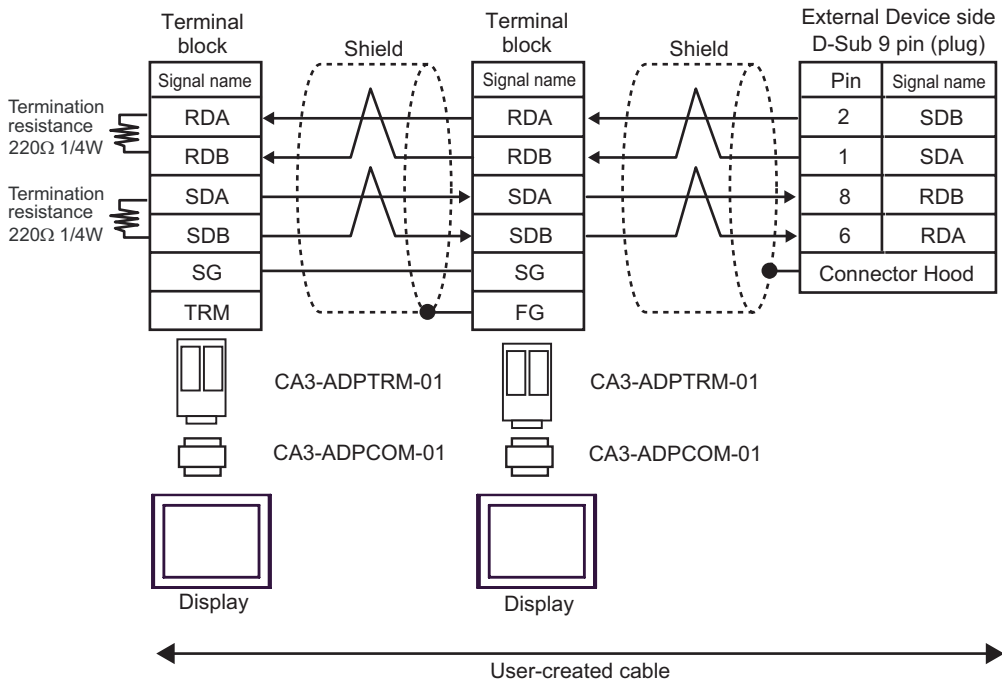
☞ "■ IPC COM Port" (page 12)

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

NOTE

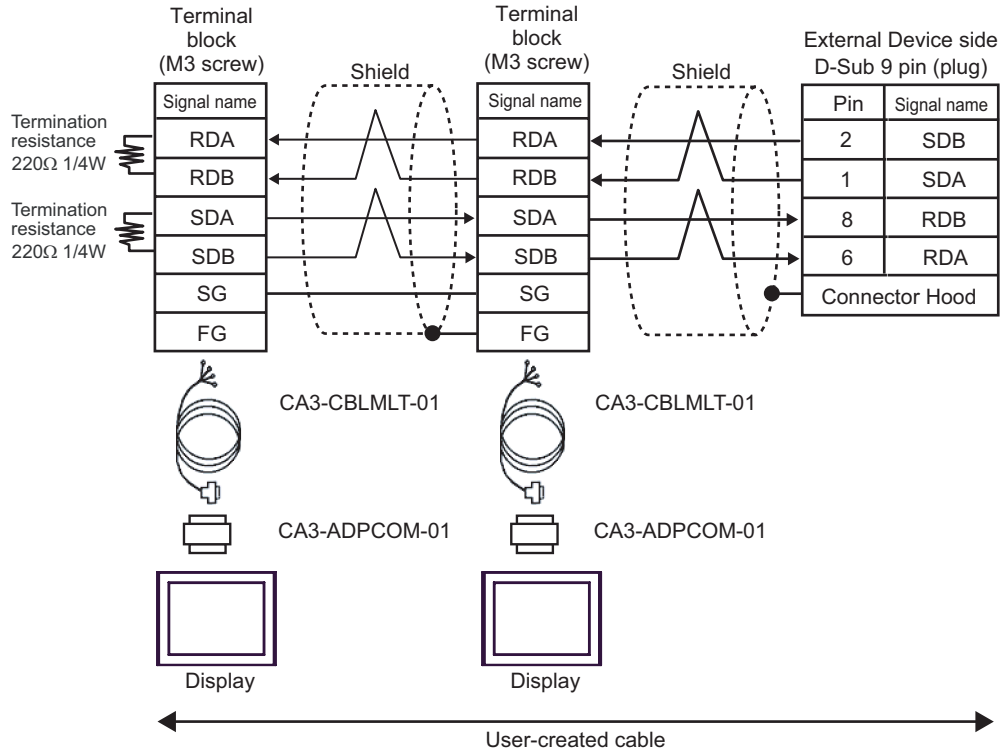
- When connecting the External Device, use the link adapter B500-AL001 or the terminal block by OMRON Corporation.

18A)



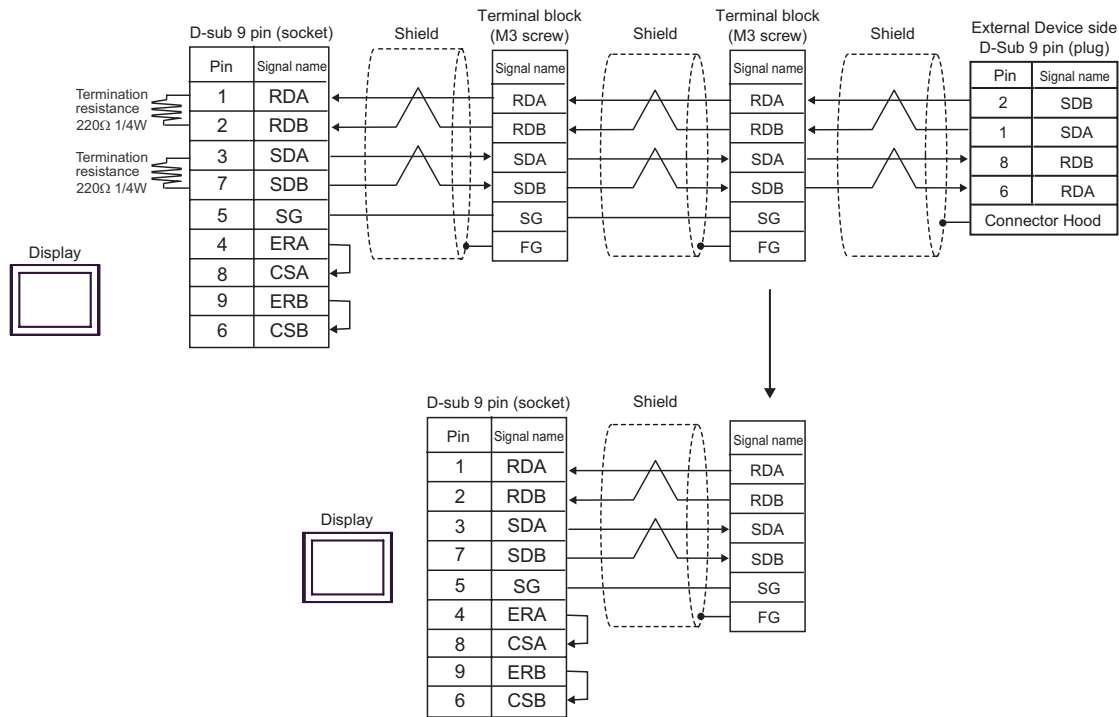
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18B)



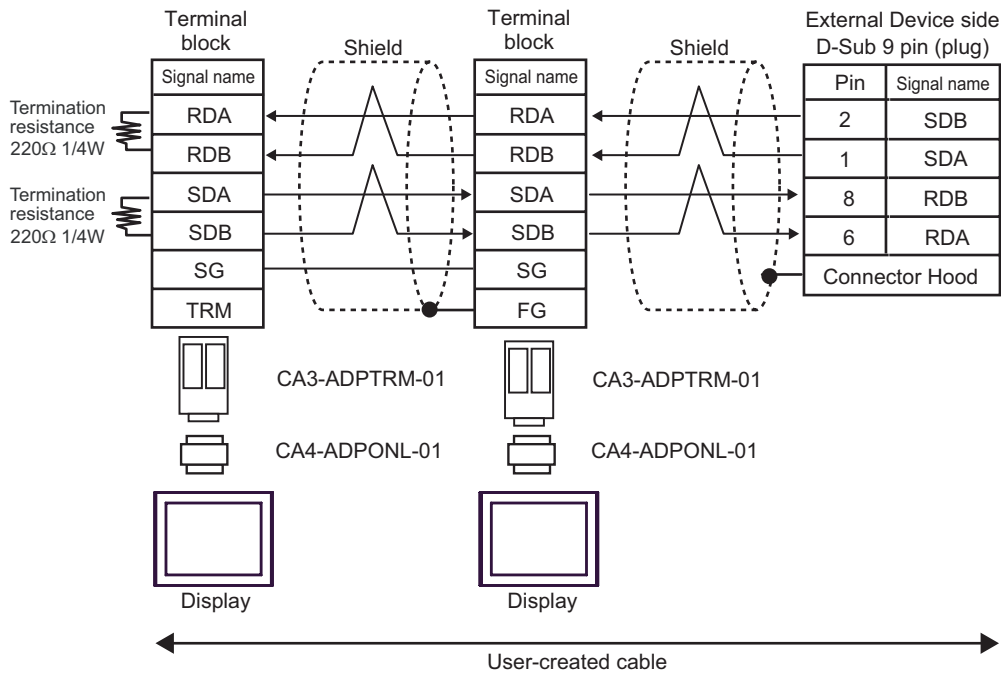
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18C)



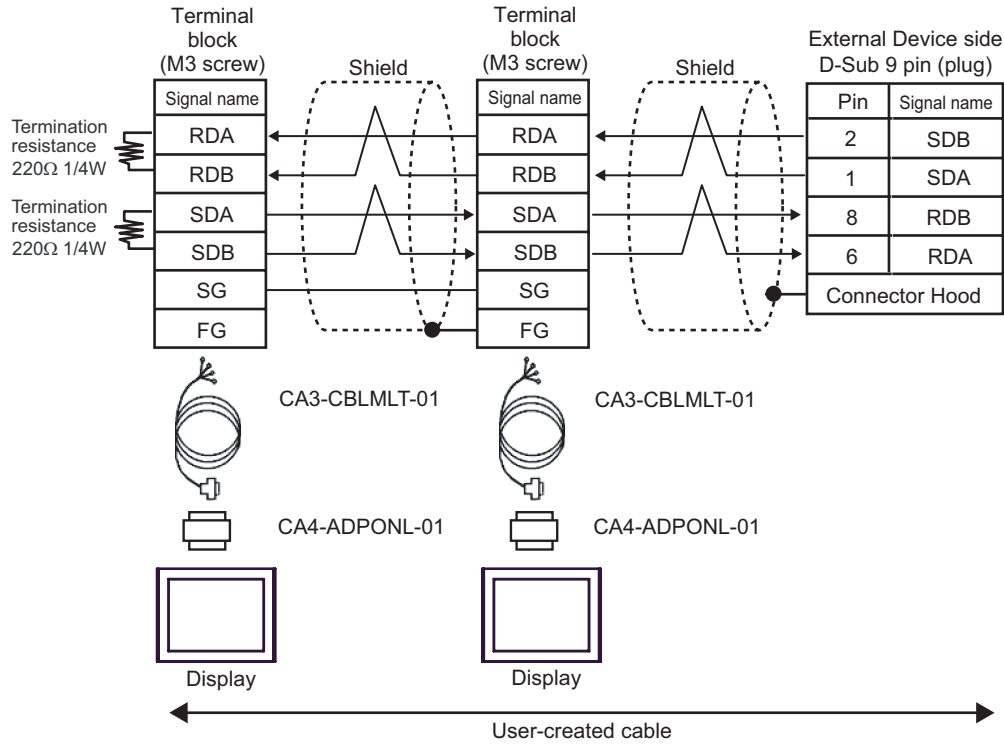
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18D)



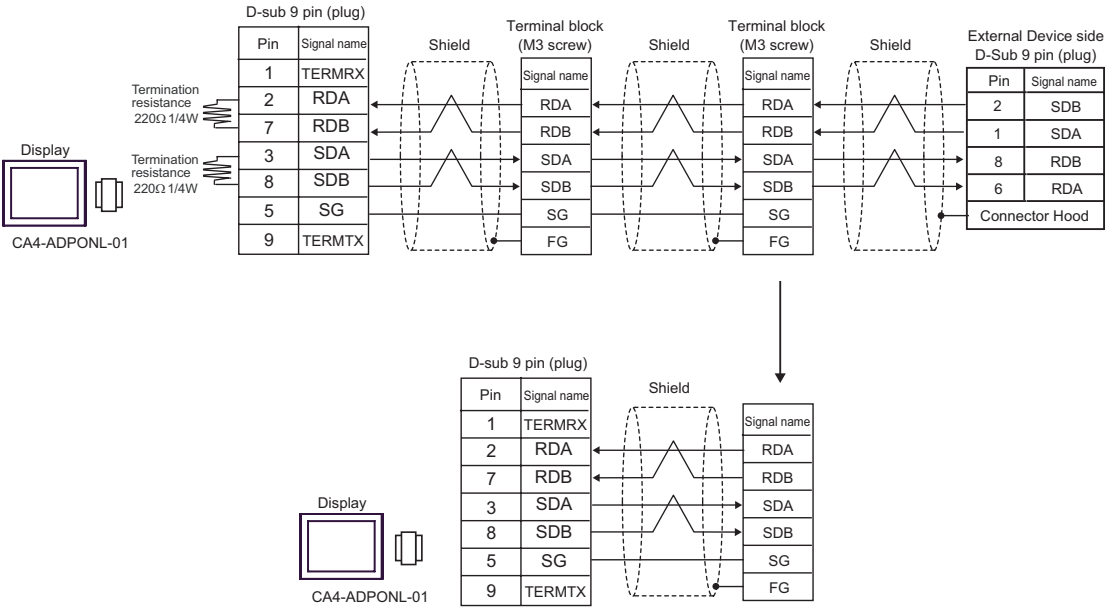
NOTE • Turn on the termination resistor switch on the External Device located at the end.

18E)



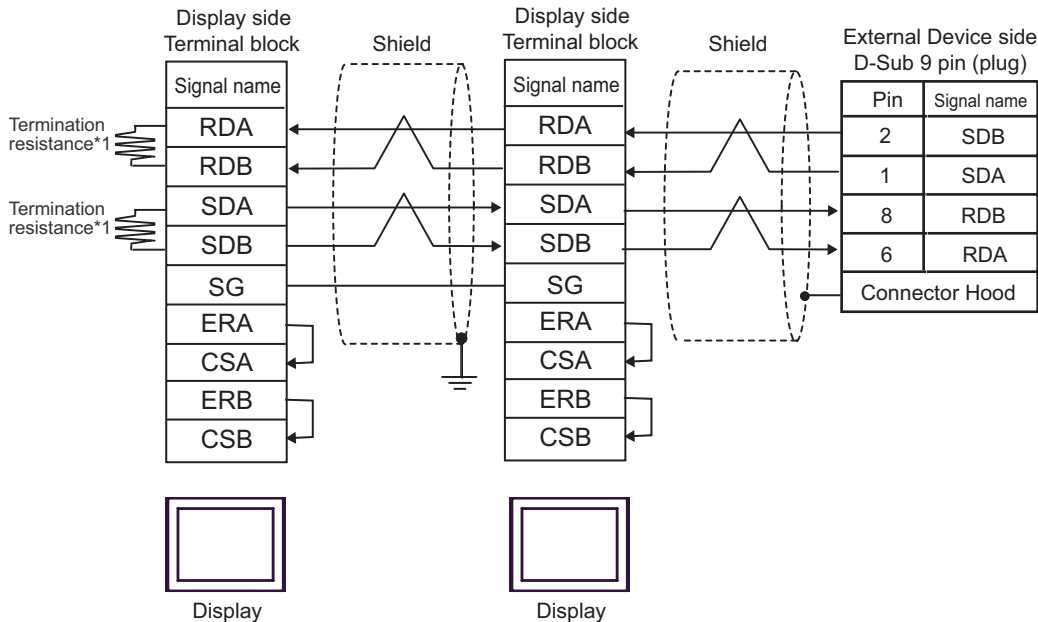
NOTE • Turn on the termination resistor switch on the External Device located at the end.

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.


Cable Diagram 19

| Display (Connection Port) | Cable | | Notes |
|---|-------|---|------------------------|
| GP3000 ^{*1} (COM1) AGP-3302B (COM2) ST ^{*2} (COM2) 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 | |
| | 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) | 19G | User-created cable | |

*1 All GP3000 models except AGP-3302B

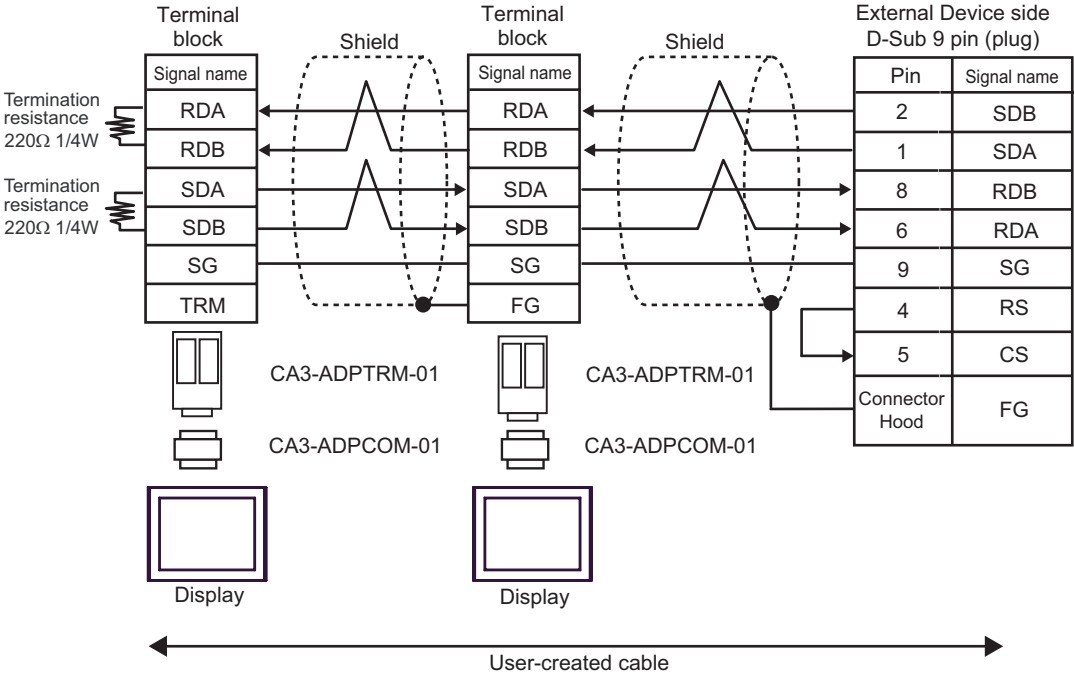
*2 All ST models except AST-3211A and AST-3302B

*3 Only the COM port which can communicate by RS-422/485 (4 wire) can be used.

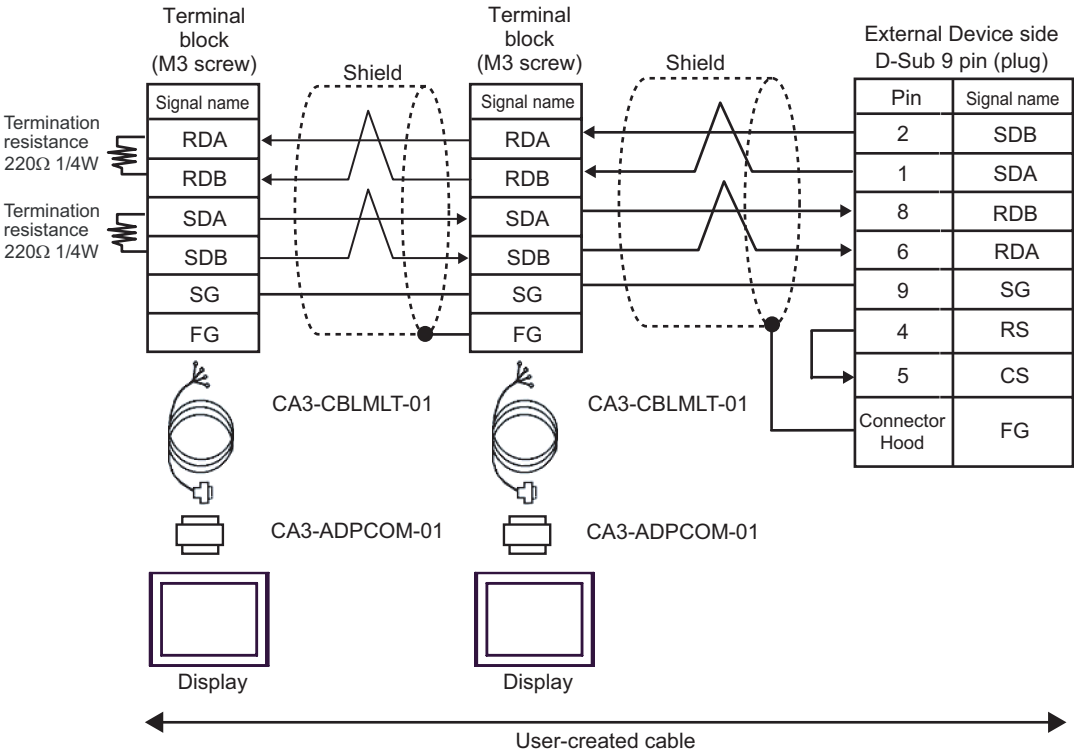
 "■ IPC COM Port" (page 12)

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

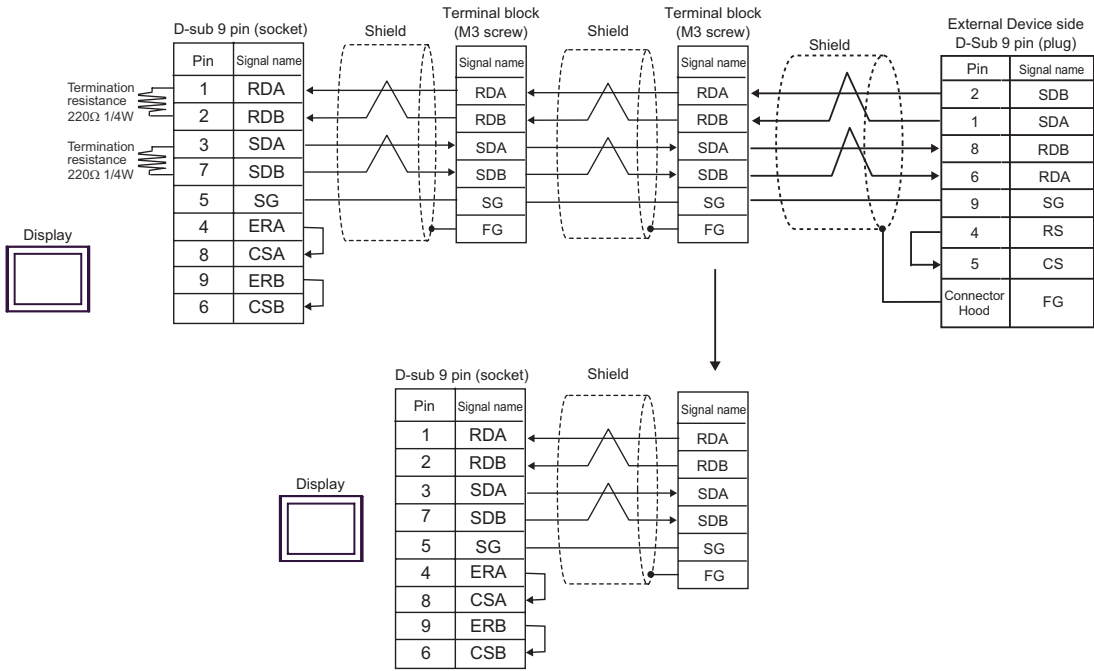
19A)



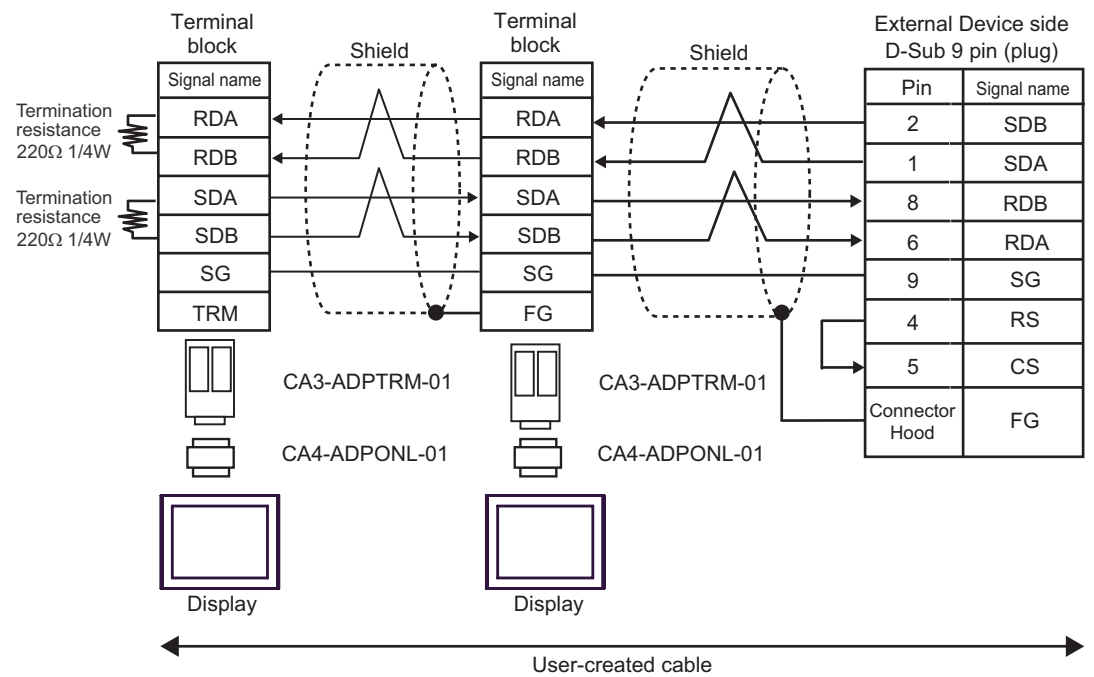
19B)



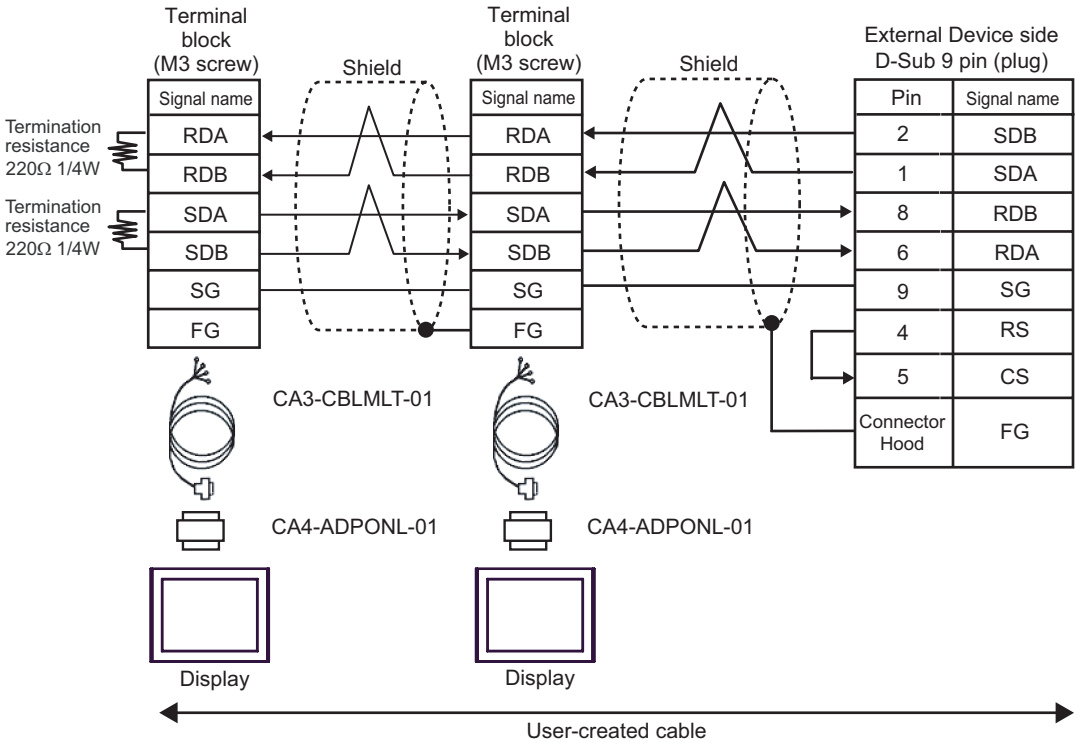
19C)



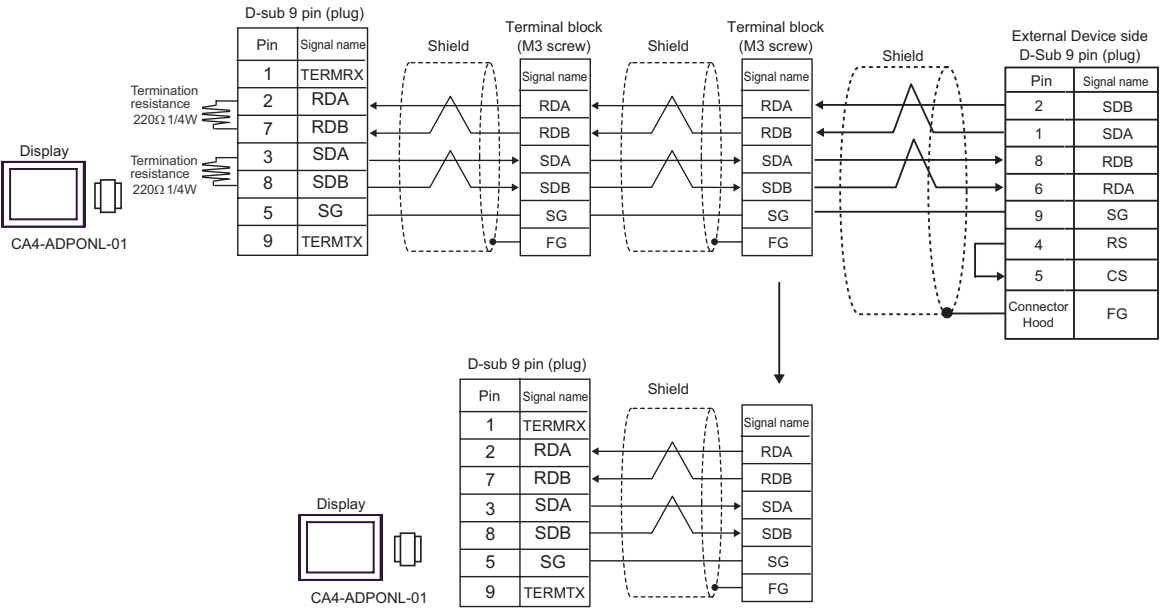
19D)



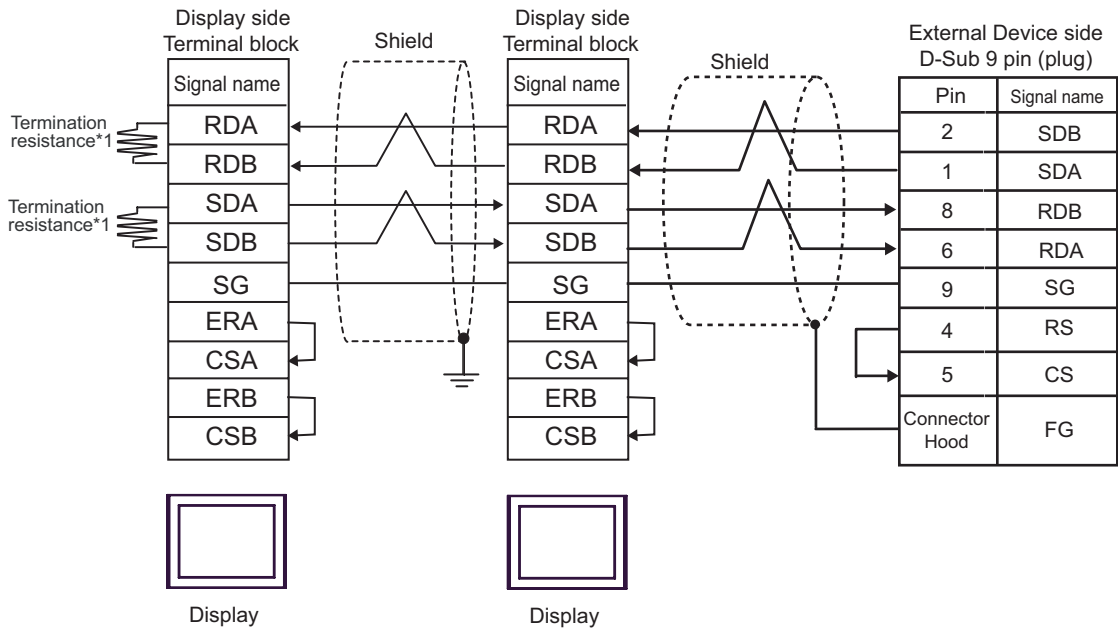
19E)



19F)



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.

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 | <div><div></div><div>L / H</div></div> | *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 | ----- | | *4 |
| Counter (Contact) | CNT000-CNT511 | ----- | | *4 |
| Timer (Current Value) | ----- | TIM000-TIM511 | | *5 |
| Counter (Current Value) | ----- | CNT000-CNT511 | | *5 |
| Data Memory | ----- | <div><div></div><div>DM0000-DM6655</div></div> | | <div><div></div><div>15</div></div> |


- *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 Write disable
- *5 BCD only




NOTE

- Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
- 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 | ----- | | *4 |
| Counter (Contact) | CNT000-CNT511 | ----- | | *4 |
| Timer (Current Value) | ----- | TIM000-TIM511 | | *5 |
| Counter (Current Value) | ----- | CNT000-CNT511 | | *5 |
| Data Memory | ----- | DM0000-DM6655 | |  15 *6 |
| Extension Data Memory | ----- | EM0000-EM6143 | |  15 *7 |

- *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 Write disable
- *5 BCD only
- *6 Do not write in the store area beyond data memory DM, DM6569-DM6599 and PC system setting area DM6600-DM6655.
- *7 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 "Appendix 1.4 LS Area (Direct Access Method)"
- Please refer to the precautions on manual notation for icons in the table.

 "Manual Symbols and Terminology"

6.3 SYSMAC-α Series



: 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 | <div style="border: 1px solid black; padding: 2px; display: inline-block;">L / H</div> | *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 | ----- | | *2 |
| Counter (Contact) | CNT000-CNT511 | ----- | | *2 |
| Timer (Current Value) | ----- | TIM000-TIM511 | | *3 |
| Counter (Current Value) | ----- | CNT000-CNT511 | | *3 |
| Data Memory | ----- | DM0000-DM6655 | | <div style="border: 1px solid black; padding: 2px; display: inline-block;">B i t 15</div> *4 |
| Extension Fixed Data Memory | ----- | DM7000-DM9999 | | <div style="border: 1px solid black; padding: 2px; display: inline-block;">B i t 15</div> *5 |
| Extension Data Memory | ----- | EM0000-EM6143 | | <div style="border: 1px solid black; padding: 2px; display: inline-block;">B i t 15</div> *6 |

*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

*4 We cannot guarantee the operation when you access the nonexistent data memory area (DM6656 to DM6999).

*5 We cannot guarantee the operation when you access to DM7000 to DM9999 without the extension fixed DM setting.

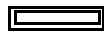
*6 We cannot guarantee the operation when you specify the area within the range in the models in which the bank of the extension memory area does not exist.

NOTE

- Please refer to the GP-Pro EX Reference Manual for system data area.
Cf. GP-Pro EX Reference Manual "Appendix 1.4 LS Area (Direct Access Method)"
- 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 | <div style="border: 1px solid black; padding: 2px; display: inline-block;">L/H</div> | *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 | | <div style="border: 1px solid black; padding: 2px; display: inline-block;">B15</div> |

*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 "Appendix 1.4 LS Area (Direct Access Method)"
- 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> <div style="border: 1px solid black; padding: 2px; margin-bottom: 5px;">NOTE</div> <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])"

NOTE

- Refer to your External Device manual for details on received error codes.
 - Refer to "When an error is displayed (Error Code List)" in "Maintenance/Troubleshooting Manual" for details on the error messages common to the driver.
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