Azbil Corporation

Controller (CPL) Driver

Introduction

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

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

| 1 | System Configuration
This section shows the types of External Devices that can be connected and SIO type. |) "1 System Configuration" (page 3) |

| 2 | Selection of External Device
Select the model (series) of the External Device to be connected and its connection method. |) "2 Selection of External Device" (page 11) |

| 3 | Example of Communication Settings
This section shows setting examples for communicating between the Display and the External Device. |) "3 Example of Communication Setting" (page 12) |

| 4 | Setup Items
This section describes communication setup items on the Display.
Set the communication settings of the Display with GP-Pro EX or in offline mode. |) "4 Setup Items" (page 98) |

| 5 | Cable Diagram
This section shows cables and adapters for connecting the Display and the External Device. |) "5 Cable Diagram" (page 103) |

Operation

1   System Configuration

The following shows the system configuration where the External Device from Azbil Corporation and the Display are connected.

Series	Controller	Link I/F	SIO Type	Setting Example	Cable Diagram
SDC10	C10□□□□□05□□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 1 (page 12)	Cable Diagram 5 (page 134)
SDC15	C15□□□□□03□□ C15□□□□□06□□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 2 (page 14)	Cable Diagram 6 (page 145)
SDC20/21	C20□□□□03□□ C20□□□□05□□ C20□□□□10□□ C21□□□□04□□ C21□□□□07□□ C21□□□□09□□	Terminal block on the controller	RS232C	Setting Example 3 (page 16)	Cable Diagram 1 (page 103)
	C20□□□□02□□ C20□□□□04□□ C20□□□□09□□ C21□□□□03□□ C21□□□□06□□ C21□□□□08□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 4 (page 18)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 5 (page 20)	Cable Diagram 3 (page 112)
SDC25/26	C25□□□□□□2□□ C26□□□□□□2□□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 6 (page 22)	Cable Diagram 6 (page 145)
SDC30/31	C30□□□□040□□ C30□□□□041□□ C31□□□□045□□ C31□□□□446□□ C31□□□546□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 7 (page 24)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 8 (page 26)	Cable Diagram 3 (page 112)
SDC35/36	C35□□□□□□2□□ C35□□□□□□4□□ C36□□□□□□2□□ C36□□□□□□4□□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 9 (page 28)	Cable Diagram 6 (page 145)
SDC40A	C40A□□□□□□□3□□	Terminal block on the controller	RS232C	Setting Example 10 (page 30)	Cable Diagram 1 (page 103)
	C40A□□□□□□□2□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 11 (page 32)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 12 (page 34)	Cable Diagram 3 (page 112)

Series	Controller	Link I/F	SIO Type	Setting Example	Cable Diagram
SDC40B	C40B□□□□□□□3□□	Terminal block on the controller	RS232C	Setting Example 13 (page 36)	Cable Diagram 1 (page 103)
	C40B□□□□□□□2□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 14 (page 38)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 15 (page 40)	Cable Diagram 3 (page 112)
SDC40G	C40G□□□□□095□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 16 (page 42)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 17 (page 44)	Cable Diagram 3 (page 112)
SDC45/46	C45A□□□□□□□□□□ C45A□□1 C46A□□□□□□□□□□ C46A□□1	Terminal block on the controller	RS422/485 (2wire)	Setting Example 29 (page 68)	Cable Diagram 8 (page 163)
DMC10	DMC10□□□□□□□□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 18 (page 46)	Cable Diagram 4 (page 123)
DMC50	DMC50CH20□□□ DMC50CH40□□□ DMC50CS20□□□ DMC50CS40□□□	Terminal block on DMC50MR20□□□	RS422/485 (4wire)	Setting Example 30 (page 70)	Cable Diagram 2 (page 105)
		Terminal block on DMC50ME20□□□	RS422/485 (2wire)	Setting Example 31 (page 72)	Cable Diagram 3 (page 112)
DCP31	P31A□□□□□□□2□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 19 (page 48)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 20 (page 50)	Cable Diagram 3 (page 112)
DCP32	P32A□□□□□□□2□□	Terminal block on the controller	RS422/485 (4wire)	Setting Example 21 (page 52)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 22 (page 54)	Cable Diagram 3 (page 112)

Series	Controller	Link I/F	SIO Type	Setting Example	Cable Diagram
DCP551	DCP551□□□2□□	Terminal block on the controller	RS232C	Setting Example 23 (page 56)	Cable Diagram 1 (page 103)
			RS422/485 (4wire)	Setting Example 24 (page 58)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 25 (page 60)	Cable Diagram 3 (page 112)
DCP552	DCP552□□□2□□	Terminal block on the controller	RS232C	Setting Example 26 (page 62)	Cable Diagram 1 (page 103)
			RS422/485 (4wire)	Setting Example 27 (page 64)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 28 (page 66)	Cable Diagram 3 (page 112)
CMC10B	CMC10B	Communications connector on the host side	RS422/485 (4wire)	Setting Example 32 (page 74)	Cable Diagram 7 (page 156)
PBC	PBC-201VN2	Terminal block on the controller	RS422/485 (4wire)	Setting Example 33 (page 76)	Cable Diagram 2 (page 105)
			RS422/485 (2wire)	Setting Example 34 (page 78)	Cable Diagram 3 (page 112)
CMS	CMS9500□□□□□1□□□□ CMS0002□□□□□1□□□□ CMS0005□□□□□1□□□□ CMS0010□□□□□1□□□□ CMS0020□□□□□1□□□□ CMS0050□□□□□1□□□□ CMS0200□□□□□1□□□□ CMS0500□□□□□1□□□□ CMS1000□□□□□1□□□□ CMS1500□□□□□1□□□□ CMS2000□□□□□1□□□□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 35 (page 80)	Cable Diagram 8 (page 163)
CMF	CMF015□	Terminal block on the controller	RS422/485 (2wire)	Setting Example 35 (page 80)	Cable Diagram 8 (page 163)
	CMF050	Terminal block on the controller	RS422/485 (4wire)	Setting Example 36 (page 82)	Cable Diagram 9 (page 174)
			RS422/485 (2wire)	Setting Example 37 (page 84)	Cable Diagram 10 (page 187)

Series	Controller	Link I/F	SIO Type	Setting Example	Cable Diagram
CMQ-V	MQV9005☐☐☐☐☐1☐☐☐☐ MQV9020☐☐☐☐☐1☐☐☐☐ MQV9200☐☐☐☐☐1☐☐☐☐ MQV9500☐☐☐☐☐1☐☐☐☐ MQV0002☐☐☐☐☐1☐☐☐☐ MQV0005☐☐☐☐☐1☐☐☐☐ MQV0020☐☐☐☐☐1☐☐☐☐ MQV0050☐☐☐☐☐1☐☐☐☐ MQV0200☐☐☐☐☐1☐☐☐☐ MQV0500☐☐☐☐☐1☐☐☐☐	Terminal block	RS422/485 (2wire)	Setting Example 38 (page 86)	Cable Diagram 11 (page 208)
MPC	MPC9500☐☐☐☐☐2☐☐☐☐ MPC0002☐☐☐☐☐2☐☐☐☐ MPC0005☐☐☐☐☐2☐☐☐☐ MPC0020☐☐☐☐☐2☐☐☐☐	Terminal block on the controller	RS422/485 (2wire)	Setting Example 39 (page 88)	Cable Diagram 8 (page 163)
MVF	MVF050☐☐☐☐☐☐1☐☐☐☐ MVF080☐☐☐☐☐☐1☐☐☐☐ MVF100☐☐☐☐☐☐1☐☐☐☐ MVF150☐☐☐☐☐☐1☐☐☐☐	Terminal block on the controller	RS422/485 (2wire)	Setting Example 40 (page 90)	Cable Diagram 8 (page 163)
CML	CML050☐☐☐☐☐☐1☐☐☐☐ CML080☐☐☐☐☐☐1☐☐☐☐ CML100☐☐☐☐☐☐1☐☐☐☐ CML150☐☐☐☐☐☐1☐☐☐☐	Terminal block	RS422/485 (4wire)	Setting Example 36 (page 82)	Cable Diagram 9 (page 174)
			RS422/485 (2wire)	Setting Example 37 (page 84)	Cable Diagram 10 (page 187)
AUR350C	AUR350C☐☐☐☐☐	Terminal block on the controller	RS422/485 (2wire)	Setting Example 41 (page 92)	Cable Diagram 4 (page 123)
AUR450C	AUR450C☐☐☐☐☐☐☐	Terminal block on the controller	RS422/485 (2wire)	Setting Example 42 (page 94)	Cable Diagram 4 (page 123)
RX	RX-L80☐☐☐☐☐☐☐	Terminal block on the controller	RS422/485 (2wire)	Setting Example 43 (page 96)	Cable Diagram 8 (page 163)

◆ Connection Configuration

• 1:1 Connection

Display   External Device

• 1:n Connection

using 1 port

Maximun 31 units *1

Display   External   External   External
                           Device   Device   Device

using 2 port or more

Display   External   External   External
                           Device   Device   Device

                                                                    Maximun
                                                                    32 units *1
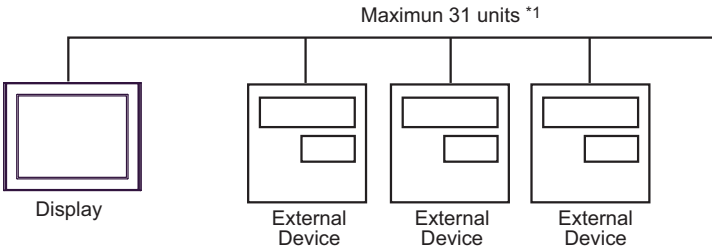
                           External   External   External
                           Device   Device   Device
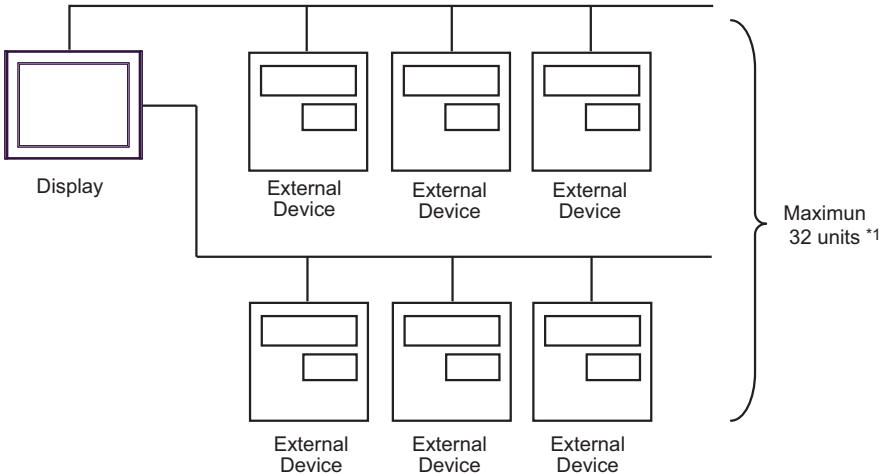
• 1:n Connection (when CMC10B is used)

Up to 16 units of CMC10B can be connected to one Display.

In addition, up to 31 External Devices that support CPL communication can be connected to CMC10B.CMC10B always collects set data, allowing improved communication performance when many devices are connected.
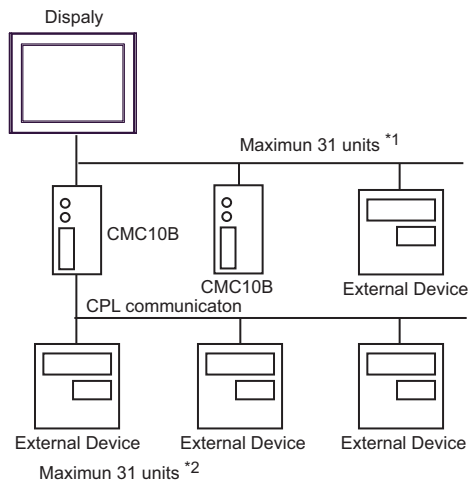
*1 Up to 15 units can be connected if the External Devices include DMC10 or DMC50.

*2 Up to 15 units can be connected if the External Devices include DMC10. Note that DMC50 cannot be used.

NOTE

• For 1:n connection, do not add termination resistors if the Controllers to be connected include any of the following series.

-SDC15

-SDC25/26

-SDC35/36

-DMC10

■ IPC COM Port

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

Usable port

Series	Usable Port		
	RS-232C	RS-422/485(4 wire)	RS-422/485(2 wire)
PS-2000B	COM1[*1] , COM2, COM3[*1], COM4	-	-
PS-3450A, PS-3451A, PS3000-BA, PS3001-BD	COM1, COM2[*1*2]	COM2[*1*2]	COM2[*1*2]
PS-3650A (T41 model), PS-3651A (T41 model)	COM1[*1]	-	-
PS-3650A (T42 model), PS-3651A (T42 model)	COM1[*1*2], COM2	COM1[*1*2]	COM1[*1*2]
PS-3700A (Pentium®4-M) PS-3710A	COM1[*1], COM2[*1], COM3[*2] , COM4	COM3[*2]	COM3[*2]
PS-3711A	COM1[*1], COM2[*2]	COM2[*2]	COM2[*2]
PS4000[*3]	COM1, COM2	-	-
PL3000	COM1[*1*2], COM2[*1], COM3, COM4	COM1[*1*2]	COM1[*1*2]

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

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

*3   When making communication between an External Device and COM port on the Expansion slot, only RS-232C is supported. However, ER (DTR/CTS) control cannot be executed because of the specification of COM port.
For connection with External Device, use user-created cables and disable Pin Nos. 1, 4, 6 and 9.
Please refer to the IPC manual for details of pin layout.

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	RS (RTS) Auto control mode: Disabled
10	OFF	

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.
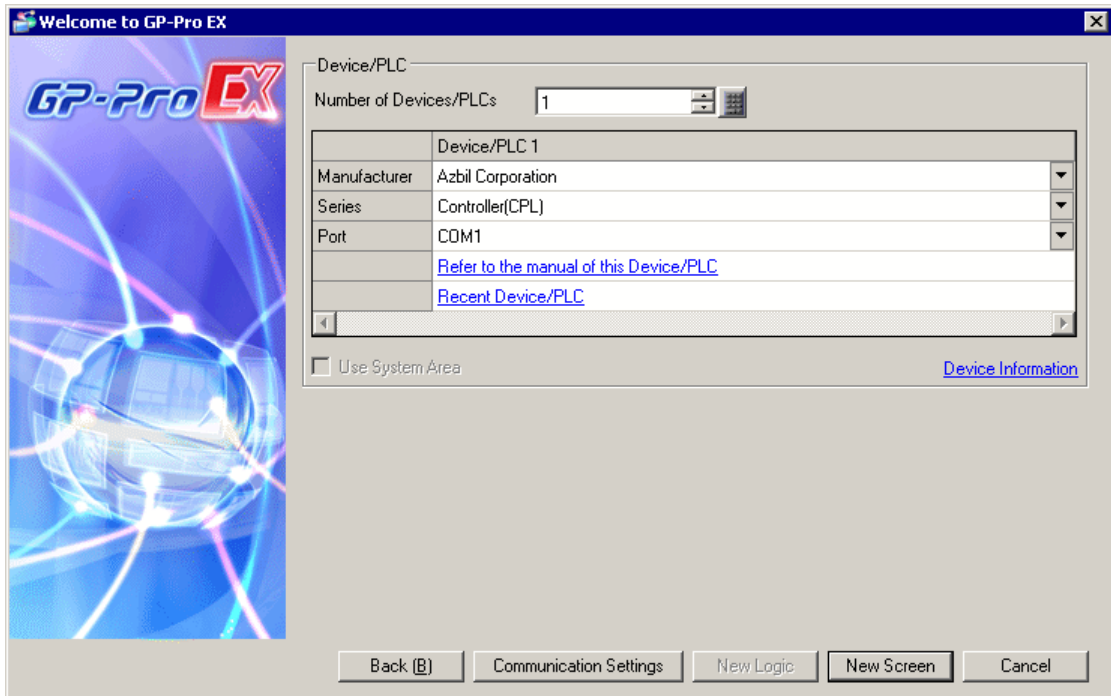
Setup Items	Setup Description
Number of Devices/ PLCs	Enter an integer from 1 to 4 to define the number of Devices/PLCs to connect to the display.
Manufacturer	Select the manufacturer of the External Device to connect. Select "Azbil Corporation".
Series	Select the External Device model (series) and the connection method. Select "Controller(CPL)". In System configuration, make sure the External Device you are connecting is supported by "Controller(CPL)".)☞ "1 System Configuration" (page 3)
Port	Select the Display port to be connected to the External Device.
Use System Area	Not available in this driver.

3　Example of Communication Setting

The following shows examples of communication settings for the Display and the External Device, which are recommended by Pro-face.

3.1　Setting Example 1

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1	

Summary　　　　　　　　　　　　　　　　　　　　　　　　　　Change Device/PLC

Manufacturer　Azbil Corporation　　　Series　Controller(CPL)　　　Port　COM1

Text Data Mode　　1　Change

Communication Settings

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

Speed　　　　9600

Data Length　　○ 7　　⦿ 8

Parity　　　　○ NONE　　⦿ EVEN　　○ ODD

Stop Bit　　　⦿ 1　　○ 2

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

Timeout　　　3　(sec)

Retry　　　　2

Wait To Send　10　(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　　Add Device
of Devices/PLCs　　31
　　　　　　　　　　　　　　　　　　　　　　　　　　　　Add Indirect
No.　Device Name　　　Settings　　　　　　　　　　　　　　Device

1　PLC1　　　　Series=SDC10,Device Address=1,Sub Address=0

IMPORTANT • To use SDC10, you need to set Wait To Send to 70ms or more.

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In operation mode, press and hold the PARA key (for 3 seconds) to move to parameter mode.

2 In parameter mode, press and hold the PARA key (for 3 seconds) to move to setup mode.

3 Press the PARA key several times to display the desired setup item.

4 Use the Down/Up keys to select a setting. (The set value will blink.)

5 When no operation is performed for 2 seconds, the set value stops blinking and the change is fixed.

6 Press and hold the PARA key (for 3 seconds) to move to the basic display.

◆ Settings

Setup Items	Settings
C22	1
C23	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.2　　　Setting Example 2

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, mode, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the operation display, press and hold the PARA key (for 2 seconds) to move to the parameter setting display.

2 In the parameter setting display, press and hold the PARA key (for 2 seconds) to move to the setup display.

3 Press the PARA key several times to display the desired setup item.

4 Use the Down/Up keys to select a setting. (The set value will blink.)

5 When no operation is performed for 2 seconds, the set value stops blinking and the change is fixed.

6 Press the mode key to move to the basic display.

◆ Settings

Setup Items	Settings
C64	0
C65	1
C66	1
C67	1
C68	0
C69	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.3   Setting Example 3

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press and hold the ENT and Down keys simultaneously (for 3 seconds or more) to display the setup items.

2 Press the Down/Up keys to select a setup item and press the ENT key.

3 Use the Down/Up keys to select a setting and press the ENT key.

4 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C31	1
C32	0
C33	0

NOTE

• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.4 Setting Example 4

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press and hold the ENT and Down keys simultaneously (for 3 seconds or more) to display the setup items.

2 Press the Down/Up keys to select a setup item and press the ENT key.

3 Use the Down/Up keys to select a setting and press the ENT key.

4 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C31	1
C32	0
C33	0

NOTE
• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.5 Setting Example 5

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1					
Summary					Change Device/PLC
Manufacturer	Azbil Corporation	Series	Controller(CPL)		Port COM1
Text Data Mode	1 Change				

Communication Settings

SIO Type	○ RS232C	● RS422/485(2wire)	○ RS422/485(4wire)	
Speed	9600			
Data Length	○ 7	● 8		
Parity	○ NONE	● EVEN	○ ODD	
Stop Bit	● 1	○ 2		
Flow Control	● NONE	○ ER(DTR/CTS)	○ XON/XOFF	
Timeout	3 (sec)			
Retry	2			
Wait To Send	10 (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   Add Device
of Devices/PLCs   31

Add Indirect
Device

No. Device Name   Settings

1 PLC1   Series=SDC20/21,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series	SDC20/21

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

Device Address	1
Sub Address	0

Default

OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press and hold the ENT and Down keys simultaneously (for 3 seconds or more) to display the setup items.

2 Press the Down/Up keys to select a setup item and press the ENT key.

3 Use the Down/Up keys to select a setting and press the ENT key.

4 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C31	1
C32	0
C33	0

NOTE

• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.6　　　Setting Example 6

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer	Azbil Corporation　Series　Controller(CPL)	Port COM1
Text Data Mode	1　Change	

Communication Settings

SIO Type	○ RS232C	⊙ RS422/485(2wire)	○ RS422/485(4wire)
Speed	9600		
Data Length	○ 7	⊙ 8	
Parity	○ NONE	⊙ EVEN	○ ODD
Stop Bit	⊙ 1	○ 2	
Flow Control	⊙ NONE	○ ER(DTR/CTS)	○ XON/XOFF
Timeout	3 (sec)		
Retry	2		
Wait To Send	10 (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　31　　Add Device

Add Indirect Device

No.	Device Name	Settings
1	PLC1	Series=SDC25/26,Device Address=1,Sub Address=0

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC] window, select the external device and click [Settings] ▥ .
To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add Device] to add another External Device.

Individual Device Settings

PLC1

Series	SDC25/26

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

Device Address	1
Sub Address	0

Default
OK (O)　Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the para, mode, enter, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the operation display, press and hold the para key (for 2 seconds) to move to the bank selection display.

2 In the bank selection display, press the enter key to move to the bank setup display.

3 Press the para key several times to display the desired setup item.

4 Press the enter key to blink the set value displayed.

5 Use the Down/Up keys to select a setting.

6 Press the enter key to fix the change.

7 Press the mode key to move to the operation display.

◆ Settings

Setup Items	Settings
C64	0
C65	1
C66	1
C67	1
C68	0
C69	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.7   Setting Example 7

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the ENT, DISP, MODE, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the MODE key twice. In the RUN/READY mode switching display that appears, change to READY mode.

2 In the basic display, press and hold the ENT and Down keys simultaneously for 3 seconds or more to display the setup items.

3 Press the Down/Up keys to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C31	1
C32	0
C33	0

NOTE
• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.8 Setting Example 8

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the ENT, DISP, MODE, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the MODE key twice. In the RUN/READY mode switching display that appears, change to READY mode.

2 In the basic display, press and hold the ENT and Down keys simultaneously for 3 seconds or more to display the setup items.

3 Press the Down/Up keys to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C31	1
C32	0
C33	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.9　　Setting Example 9

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1

Summary　　　　　　　　　　　　　　　　　　　　　　　　　Change Device/PLC

Manufacturer | Azbil Corporation　　Series | Controller(CPL)　　Port | COM1

Text Data Mode | 1 | Change

Communication Settings

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

Speed　　　　　　9600

Data Length　　○ 7　　⊙ 8

Parity　　　　　○ NONE　　⊙ EVEN　　○ ODD

Stop Bit　　　　⊙ 1　　○ 2

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

Timeout　　　3　(sec)

Retry　　　　2

Wait To Send　10　(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　　Add Device
of Devices/PLCs　31　　　　　　　　　　　　　　　Add Indirect
　　　　　　　　　　　　　　　　　　　　　　　　Device
No. Device Name　　Settings

1 | PLC1 | Series=SDC35/36,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series | SDC35/36

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

Device Address | 1

Sub Address | 0

Default

OK (O)　　Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the para, mode, enter, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the operation display, press and hold the para key (for 2 seconds) to move to the bank selection display.

2 In the bank selection display, press the enter key to move to the bank setup display.

3 Press the para key several times to display the desired setup item.

4 Press the enter key to blink the set value displayed.

5 Use the Down/Up keys to select a setting.

6 Press the enter key to fix the change.

7 Press the mode key to move to the operation display.

◆ Settings

Setup Items	Settings
C64	0
C65	1
C66	1
C67	1
C68	0
C69	0

NOTE   • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.10 Setting Example 10

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to display PARA. Then press the ENT key to display rnry and move to READY mode.

2 In the basic display, press the PARA key several times to display SETUP.

3 Press the ENT key to display the setup items.

4 Press the Down/Up keys to select a setup item and press the ENT key.

5 Use the Down/Up keys to select a setting and press the ENT key.

6 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.11 Setting Example 11

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to display PARA. Then press the ENT key to display rnry and move to READY mode.

2 In the basic display, press the PARA key several times to display SETUP.

3 Press the ENT key to display the setup items.

4 Press the Down/Up keys to select a setup item and press the ENT key.

5 Use the Down/Up keys to select a setting and press the ENT key.

6 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.12   Setting Example 12

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to display PARA. Then press the ENT key to display rnry and move to READY mode.

2 In the basic display, press the PARA key several times to display SETUP.

3 Press the ENT key to display the setup items.

4 Press the Down/Up keys to select a setup item and press the ENT key.

5 Use the Down/Up keys to select a setting and press the ENT key.

6 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0

NOTE

• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.13   Setting Example 13

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1

Summary   Change Device/PLC

Manufacturer   Azbil Corporation   Series   Controller(CPL)   Port   COM1

Text Data Mode   1   Change

Communication Settings

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

Speed   9600

Data Length   ○ 7   ⊙ 8

Parity   ○ NONE   ⊙ EVEN   ○ ODD

Stop Bit   ⊙ 1   ○ 2

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

Timeout   3   (sec)

Retry   2

Wait To Send   10   (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   Add Device
of Devices/PLCs   31   Add Indirect
                                                                          Device
No. Device Name   Settings
 1   PLC1   Series=SDC40B,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series   SDC40B

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

Device Address   1

Sub Address   0

                         Default

         OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to move to setup mode.

2 Press the ENT key to display the setup items.

3 Press the Down/Up keys to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C25	1
C26	0
C27	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.14   Setting Example 14

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1

Summary   Change Device/PLC

Manufacturer   Azbil Corporation   Series   Controller(CPL)   Port   COM1

Text Data Mode   1   Change

Communication Settings

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

Speed   9600

Data Length   ○ 7   ⊙ 8

Parity   ○ NONE   ⊙ EVEN   ○ ODD

Stop Bit   ⊙ 1   ○ 2

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

Timeout   3   (sec)

Retry   2

Wait To Send   10   (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   Add Device
of Devices/PLCs   31
                                                                 Add Indirect
No.   Device Name   Settings   Device
1   PLC1   Series=SDC40B,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series   SDC40B

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

Device Address   1

Sub Address   0

Default

OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to move to setup mode.

2 Press the ENT key to display the setup items.

3 Press the Down/Up keys to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C25	1
C26	0
C27	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.15 Setting Example 15

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to move to setup mode.

2 Press the ENT key to display the setup items.

3 Press the Down/Up keys to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C25	1
C26	0
C27	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.16 Setting Example 16

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to display PARA. Then press the ENT key to display rnry and move to READY mode.

2 In the basic display, press the PARA key several times to display SETUP.

3 Press the ENT key to display the setup items.

4 Press the Down/Up keys to select a setup item and press the ENT key.

5 Use the Down/Up keys to select a setting and press the ENT key.

6 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C25	1
C26	0
C27	0

NOTE

• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.17　　　Setting Example 17

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key to display PARA. Then press the ENT key to display rnry and move to READY mode.

2 In the basic display, press the PARA key several times to display SETUP.

3 Press the ENT key to display the setup items.

4 Press the Down/Up keys to select a setup item and press the ENT key.

5 Use the Down/Up keys to select a setting and press the ENT key.

6 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C25	1
C26	0
C27	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.18 Setting Example 18

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

Use the ladder software to configure communication settings for the External Device. (Operation confirmed using the the Smart Loader Package SLP-D10 V3.0.1.) Set the device address of the External Device using the rotary switch on the front of the Controller.

Refer to your Controller manual for details.

◆ Procedure

1 Set the device address using the device address setting rotary switch on the front of the Controller.

After setting the address, reboot the External Device.

2 Click [Set] in the ladder software to display the setting screen.

3 Click [Model Setting] from the menu and select the model No. of the External Device.

4 Click [Environmental Setting] from the menu and configure the setup transfer settings.

5 Select [Communication] from [Basic Function] in the tree view and configure the communication settings.

6 Transfer the settings to the External Device.

When the writing is complete, reboot the External Device.

◆ Settings

Setup Items	Settings
Speed	3
Data format	0
Min. communication response time	1
Additional value of min. communication response time	0
CPL/MODBUSswitching	0
Memory protection	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.19　Setting Example 19

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the FUNC, PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key while holding down the FUNC key to move to the setting group selection screen.

2 Press the PARA key several times to display the setup data setting group, and press the ENT key.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0
C93	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.20 Setting Example 20

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1

Summary   Change Device/PLC

Manufacturer Azbil Corporation   Series   Controller(CPL)   Port COM1

Text Data Mode   1   Change

Communication Settings

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

Speed   9600

Data Length   ○ 7   ● 8

Parity   ○ NONE   ● EVEN   ○ ODD

Stop Bit   ● 1   ○ 2

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

Timeout   3   (sec)

Retry   2

Wait To Send   10   (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   Add Device
of Devices/PLCs   31
                                                          Add Indirect
No. Device Name   Settings   Device

1   PLC1   Series=DCP31,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series   DCP31

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

Device Address   1

Sub Address   0

                    Default

         OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the FUNC, PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key while holding down the FUNC key to move to the setting group selection screen.

2 Press the PARA key several times to display the setup data setting group, and press the ENT key.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0
C93	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.21　　Setting Example 21

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the FUNC, PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key while holding down the FUNC key to move to the setting group selection screen.

2 Press the PARA key several times to display the setup data setting group, and press the ENT key.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0
C93	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.22 Setting Example 22

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the FUNC, PARA, ENT, DISP, Down and Up keys on the front of the Controller. Refer to your Controller manual for details.

◆ Procedure

1 In the basic display, press the PARA key while holding down the FUNC key to move to the setting group selection screen.

2 Press the PARA key several times to display the setup data setting group, and press the ENT key.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C84	1
C85	0
C93	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.23   Setting Example 23

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer	Azbil Corporation	Series	Controller(CPL)	Port COM1

Text Data Mode   1   Change

Communication Settings

SIO Type	⦿ RS232C	○ RS422/485(2wire)	○ RS422/485(4wire)
Speed	9600 ▼		
Data Length	○ 7	⦿ 8	
Parity	○ NONE	⦿ EVEN	○ ODD
Stop Bit	⦿ 1	○ 2	
Flow Control	⦿ NONE	○ ER(DTR/CTS)	○ XON/XOFF
Timeout	3 ÷ (sec)		
Retry	2 ÷		
Wait To Send	10 ÷ (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   Add Device
of Devices/PLCs   31
                                                                    Add Indirect
No. Device Name   Settings   Device
 1   PLC1   Series=DCP551,Device Address=1,Sub Address=0

◆ Device Setting

To display the [Individual Device Settings] dialog box, from [Device-Specific Settings] in the [Device/PLC]
window, select the external device and click [Settings]   .
To connect multiple External Devices, from [Device-Specific Settings] in the [Device/PLC] window, click [Add
Device] to add another External Device.

Individual Device Settings ☒

PLC1

Series	DCP551 ▼

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

Device Address	1 ÷
Sub Address	0 ÷

Default

OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the PROG, RUN/HOLD, SETUP, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 Press the RUN/HOLD key while holding down the PROG key to move to READY mode.

2 In the basic display, press the SETUP key to move to the setup group.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C76	1
C77	0
C78	0
C79	0
C80	1
C97	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.24 Setting Example 24

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PROG, RUN/HOLD, SETUP, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 Press the RUN/HOLD key while holding down the PROG key to move to READY mode.

2 In the basic display, press the SETUP key to move to the setup group.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.25   Setting Example 25

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer	Azbil Corporation Series Controller(CPL)	Port COM1
Text Data Mode	1 Change	

Communication Settings

SIO Type	○ RS232C ⊙ RS422/485(2wire) ○ RS422/485(4wire)
Speed	9600
Data Length	○ 7 ⊙ 8
Parity	○ NONE ⊙ EVEN ○ ODD
Stop Bit	⊙ 1 ○ 2
Flow Control	⊙ NONE ○ ER(DTR/CTS) ○ XON/XOFF
Timeout	3 (sec)
Retry	2
Wait To Send	10 (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   [Add Device]
of Devices/PLCs   31
Add Indirect
Device
No. Device Name   Settings
1   PLC1   Series=DCP551,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series	DCP551

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

Device Address	1
Sub Address	0

[Default]

[OK (O)]   [Cancel]

■ Settings of External Device

To configure communication settings for the External Device, use the PROG, RUN/HOLD, SETUP, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 Press the RUN/HOLD key while holding down the PROG key to move to READY mode.

2 In the basic display, press the SETUP key to move to the setup group.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

NOTE
• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.26 Setting Example 26

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PROG, RUN/HOLD, SETUP, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 Press the RUN/HOLD key while holding down the PROG key to move to READY mode.

2 In the basic display, press the SETUP key to move to the setup group.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C76	1
C77	0
C78	0
C79	0
C80	1
C97	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.27   Setting Example 27

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PROG, RUN/HOLD, SETUP, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 Press the RUN/HOLD key while holding down the PROG key to move to READY mode.

2 In the basic display, press the SETUP key to move to the setup group.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.28 Setting Example 28

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PROG, RUN/HOLD, SETUP, ENT, DISP, Down and Up keys on the front of the Controller. You can change the communication settings only in READY mode. Switch the External Device to READY mode before setting.

Refer to your Controller manual for details.

◆ Procedure

1 Press the RUN/HOLD key while holding down the PROG key to move to READY mode.

2 In the basic display, press the SETUP key to move to the setup group.

3 Press the Down/Up keys several times to select a setup item and press the ENT key.

4 Use the Down/Up keys to select a setting and press the ENT key.

5 Press the DISP key to move to the basic display.

◆ Settings

Setup Items	Settings
C76	1
C77	0
C78	0
C79	0
C80	0
C97	0

NOTE • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.29   Setting Example 29

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the para, enter, display, and cursor keys on the front of the Controller.

Refer to your Controller manual for details.

◆ Procedure

1 In the operation display, press and hold the para key (for 2 seconds) to move to PARA bank mode.

2 Press the para key to display RS-485 communication bank mode (rS485).

3 Press the enter key to move to RS-485 communication bank mode.

4 Press the para key to select a setup item and press the enter key.

5 Use the cursor keys to select a setting and press the enter key.

6 Press the display key to move to the operation display.

7 Reboot the External Device.

◆ Settings

Setup Items	Settings
Com.02	1
Com.03	2
Com.04	1
Com.05	0
Com.06	0
Com.07	3

NOTE
• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.30 Setting Example 30

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1						
Summary						Change Device/PLC
Manufacturer	Azbil Corporation		Series	Controller(CPL)		Port COM1
Text Data Mode	1 Change					

Communication Settings

SIO Type	○ RS232C	○ RS422/485(2wire)	⊙ RS422/485(4wire)	
Speed	9600 ▼			
Data Length	○ 7	⊙ 8		
Parity	○ NONE	⊙ EVEN	○ ODD	
Stop Bit	⊙ 1	○ 2		
Flow Control	⊙ NONE	○ ER(DTR/CTS)	○ XON/XOFF	
Timeout	3 ⊹ (sec)			
Retry	2 ⊹			
Wait To Send	10 ⊹ (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   Add Device
of Devices/PLCs   31
                                                    Add Indirect
No. Device Name   Settings   Device
1   PLC1   Series=DMC50,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings	✕
PLC1	
Series	DMC50 ▼
Please reconfirm all of address settings that you are using if you have changed the series.	
Device Address	1 ⊹
Sub Address	0 ⊹
	Default
OK (O)	Cancel

■ Settings of External Device

Use the ladder software (Smart Loader Package SLP-D510 V2.2.3) to configure communication settings for the External Device. Use the rotary switch on the front of the Controller to set the device address of the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Set the device address using the device address setting rotary switch on the front of the Controller, as shown below.

After setting the address, reboot the External Device.

Rotary Switch	Settings
ADR	1

2 Start up the ladder software.

3 Select [New Project] from the [Project] menu.

4 In the [Project Group] dialog box, click [OK] to display the [Project Definition] dialog box.

5 Type a project name in [Project Name].

6 Select the module you want to use from [Module Type], and then click [OK].

7 Select [System Parameters] - [Communication Setup] - [Instance] in the tree view.

8 Set [Trans.Speed (RS-485 port1)] and [Protocol (RS-485 port1)] on the [Instance Body] tab as shown below.

Setup Items	Settings
Trans.Speed (RS-485 port1)	3
Protocol (RS-485 port1)	1

9 Right-click the [Instance Body] tab and select [Download] from the menu that appears to download the settings to the External Device.

10 Reboot the External Device.

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.31 Setting Example 31

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1

Summary   Change Device/PLC

Manufacturer | Azbil Corporation | Series | Controller(CPL) | Port | COM1

Text Data Mode | 1 | Change

Communication Settings

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

Speed   9600

Data Length   ○ 7   ● 8

Parity   ○ NONE   ● EVEN   ○ ODD

Stop Bit   ● 1   ○ 2

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

Timeout   3   (sec)

Retry   2

Wait To Send   10   (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   Add Device
of Devices/PLCs   31
                                                              Add Indirect
No. Device Name   Settings   Device

1 PLC1   Series=DMC50,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series   DMC50

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

Device Address   1

Sub Address   0

Default

OK (O)   Cancel

■ Settings of External Device

Use the ladder software (Smart Loader Package SLP-D510 V2.2.3) to configure communication settings for the External Device. Use the rotary switch on the front of the Controller to set the device address of the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Set the device address using the device address setting rotary switch on the front of the Controller, as shown below.

After setting the address, reboot the External Device.

Rotary Switch	Settings
ADR	1

2 Start up the ladder software.

3 Select [New Project] from the [Project] menu.

4 In the [Project Group] dialog box, click [OK] to display the [Project Definition] dialog box.

5 Type a project name in [Project Name].

6 Select the module you want to use from [Module Type], and then click [OK].

7 Select [System Parameters] - [Communication Setup] - [Instance] in the tree view.

8 Set [Trans.Speed (RS-485 port1)] and [Protocol (RS-485 port1)] on the [Instance Body] tab as shown below.

Setup Items	Settings
Trans.Speed (RS-485 port1)	3
Protocol (RS-485 port1)	1

9 Right-click the [Instance Body] tab and select [Download] from the menu that appears to download the settings to the External Device.

10 Reboot the External Device.

| NOTE | • The parameters to be set vary depending on the Controller. Refer to your Controller manual for details. |

3.32   Setting Example 32

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

Use the ladder software (Smart Loader Package SLP-CM1 V2.0.1) to configure communication settings for the External Device. Use the rotary switch on the front of the Controller to set the device address and transmission speed of the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Set the device address and transmission speed using the rotary switch on the front of the Controller, as shown below.

After setting them, reboot the External Device.

Rotary Switch	Settings
CMC ADDRESS (x10)	0
CMC ADDRESS (x1)	1
HOST ←→ CMC BRATE	2

2 Start the ladder software and select [Setup].

3 Select [Communication] - [Host] in the tree view and set [Data format] as shown below.

Setup Items	Settings
Data format	0

4 Select [Write (SLP10 to CMC10B)] from the [Communication] menu, and download the set data to the External Device.

5 Reboot the External Device.

NOTE	• The parameters to be set vary depending on the Controller. Refer to your Controller manual for details.

3.33   Setting Example 33

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, RUN, UP/DOWN, and ENT keys on the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press the PARA key in the RUN mode. Move to the Function number selection.

2 Press the UP key and DOWN key, and display the laser beam alignment and intensity alignment[Function 1] or store to EEPROM[Function y].

3 Press the ENT key, and move to the alignment mode.

4 Press the UP key and DOWN key, and display the function number to set.

5 Press the ENT key.

6 Use the UP key and DOWN key to select a setting and press the ENT key.

7 Press the RUN key to move to the RUN mode.

◆ Settings

Function Number	Settings	Setup Description
P	00	CPL
r	0	9600bps
U	0	Even parity, 1 stop bit

NOTE	• The data length is fixed to 8 bits.

3.34 Setting Example 34

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the PARA, RUN, UP/DOWN, and ENT keys on the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press the PARA key in the RUN mode. Move to the Function number selection.

2 Press the UP key and DOWN key, and display the laser beam alignment and intensity alignment[Function 1] or store to EEPROM[Function y].

3 Press the ENT key, and move to the alignment mode.

4 Press the UP key and DOWN key, and display the function number to set.

5 Press the ENT key.

6 Use the UP key and DOWN key to select a setting and press the ENT key.

7 Press the RUN key to move to the RUN mode.

◆ Settings

Function Number	Settings	Setup Description
P	00	CPL
r	0	9600bps
U	0	Even parity, 1 stop bit

| NOTE	• The data length is fixed to 8 bits.

3.35　　Setting Example 35

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1	

Summary　　　　　　　　　　　　　　　　　　　　　　　　　　　　Change Device/PLC

Manufacturer　Azbil Corporation　　　　Series　Controller(CPL)　　Port　COM1

Text Data Mode　　1　Change

Communication Settings

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

Speed　　　　　9600

Data Length　　　○ 7　　　　◉ 8

Parity　　　　　○ NONE　　◉ EVEN　　　○ ODD

Stop Bit　　　　◉ 1　　　　○ 2

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

Timeout　　　　3　　(sec)

Retry　　　　　2

Wait To Send　　50　　(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　　　Add Device
of Devices/PLCs　　31　　　　　　　　　　　　　　Add Indirect
　　　　　　　　　　　　　　　　　　　　　　　Device
No.　Device Name　　　Settings

1　PLC1　　　Series=CMS/CMF015,Device Address=1,Sub Address

◆ Device Setting

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

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

Individual Device Settings

PLC1

Series　　　　　CMS/CMF015

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

Device Address　　1

Sub Address　　　0

Default

OK (O)　　　Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the DISP, MODE, UP/DOWN, and ENT keys on the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press the MODE key in the Normal mode display. Move to the Function setup mode.

2 Press UP key and DOWN key, and display the setting mode number.

3 Press the ENT key.

4 Use the UP key and DOWN key to select a setting, and press the ENT key.

5 Press the DISP key to move to the Normal mode display.

◆ Settings

Mode	Settings	Setup Description
30	1	Station address
31	0	9600bps
32	0	8 bits data, even parity, 1 stop bit

3.36　　Setting Example 36

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the MODE, UP/DOWN, and ENT keys on the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press for more than 3 seconds at the same time the MODE key and UP key in the Normal mode display. Move to the Function setup mode.

2 Press UP key and DOWN key, and display the mode number to set.

3 Press the ENT key.

4 Use the UP key and DOWN key to select a setting, and press the ENT key.

5 Press the MODE key to move to the Normal mode display.

◆ Settings

Mode	Settings	Setup Description
5-30	01h	Station address
5-31	00	9600bps
5-32	01	8-bit data, no parity, 2 stop bits

3.37   Setting Example 37

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the MODE, UP/DOWN, and ENT keys on the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press for more than 3 seconds at the same time the MODE key and UP key in the Normal mode display. Move to the Function setup mode.

2 Press UP key and DOWN key, and display the mode number to set.

3 Press the ENT key.

4 Use the UP key and DOWN key to select a setting, and press the ENT key.

5 Press the MODE key to move to the Normal mode display.

◆ Settings

Mode	Settings	Setup Description
5-30	01h	Station address
5-31	00	9600bps
5-32	01	8-bit data, no parity, 2 stop bits

3.38 Setting Example 38

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the DISP, UP/DOWN, and ENT keys on the
External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press for more than 3 seconds at the same time the DOWN key and ENT key in the Normal mode display. Move
to the Function setup mode.

2 Press UP key and DOWN key, and display the Setup item number.

3 Press the ENT key.

4 Use the UP key and DOWN key to select a setting, and press the ENT key.

5 Press the DISP key to move to the Normal mode display.

◆ Settings

Function setup item	Settings	Setup Description
C-30	1	Station address
C-31	1	19200bps
C-32	0	8 bits data, even parity, 1 stop bit

3.39   Setting Example 39

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1

Summary   Change Device/PLC

Manufacturer | Azbil Corporation   Series | Controller(CPL)   Port | COM1

Text Data Mode | 1 | 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 | 10 ⬍ | (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   Add Device
of Devices/PLCs   31   Add Indirect
                                                                    Device
No. Device Name   Settings

🖹 1 | PLC1 | 🖫 | Series=MPC,Device Address=1,Sub Address=0 | 🖳

◆ Device Setting

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

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

Individual Device Settings   ✕

PLC1

Series | MPC ▼ |

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

Device Address | 1 ⬍ |

Sub Address | 0 ⬍ |

                                                        Default

                     OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the DISP, UP/DOWN, <, and ENT keys on the External Device.

Refer to your Controller manual for details.

◆ Procedure

1 Press the DISP key, and display the integrated display mode.

2 Press for more than 3 seconds the < key. Move to the parameter settings mode.

3 Press for more than 3 seconds the < key again. Move to the function setting mode.

4 Press UP key and DOWN key, and display a target setting item number.

5 Press the ENT key.

6 Use the UP key and DOWN key to select a setting, and press the ENT key.

7 Press the DISP key to move to the Normal mode display.

◆ Settings

Display	Settings	Setup Description
C-30	1	Station address
C-31	1	19200bps
C-32	0	8 bits data, even parity, 1 stop bit

3.40 Setting Example 40

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1				
Summary				Change Device/PLC
Manufacturer	Azbil Corporation	Series	Controller(CPL)	Port COM1
Text Data Mode	1 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	10 ⊞ (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   Add Device
of Devices/PLCs   31
                                                          Add Indirect
No. Device Name   Settings   Device
1 PLC1   Series=MVF,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings	✕
PLC1	
Series	MVF ▼
Please reconfirm all of address settings that you are using if you have changed the series.	
Device Address	1 ⊞
Sub Address	0 ⊞
	Default
OK (O)	Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the Communications parameters switch and Station address setting switch on the External Device.

Refer to your Controller manual for details.

• Communications parameters switch

DIP Switch	Settings	Setup Description
1	ON	Setting effective
2	OFF	19200bps
3	OFF	
4	OFF	8-bit data, 1 stop bit, even parity

• Station address setting switch

	Settings	Setup Description
Rotary switch	1h	Station address

3.41   Setting Example 41

■ Setting of GP-Pro EX

◆ Communication Settings

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

◆ Device Setting

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

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

■ Settings of External Device

To configure communication settings for the External Device, use the ADDRESS switch on the External Device and the setting tool (Smart Loader Package SLP-A35).

Refer to your Controller manual for details.

• ADDRESS switch

Set to "1" using the ADDRESS switch. After setting them, reboot the External Device.

• Setting tool

1 Start up the setting tool.

2 Select the [Port setup] from [Menu] menu, and select the using Communication port.

3 Select the [Set up] from [Menu] menu, and click the [Basic setup] tab.

4 Set the [RS-485 communications settings] as follows:

Setup Items	Settings
Data format	0:8 bits, even parity, 1 stop bit
Transmission speed	3:19200bps

5 Write the settings into the External Device, and reboot the External Device.

3.42   Setting Example 42

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1		
Summary		Change Device/PLC
Manufacturer	Azbil Corporation Series	Controller(CPL) Port	COM1
Text Data Mode	1 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	10 (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   [Add Device]
of Devices/PLCs   31   Add Indirect
Device
No.   Device Name   Settings
1   PLC1   Series=AUR450C,Device Address=1,Sub Address=0

◆ Device Setting

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

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

Individual Device Settings   ✕

PLC1

Series	AUR450C

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

Device Address	1
Sub Address	0

[Default]

[OK (O)]   [Cancel]

■ Settings of External Device

To configure communication settings for the External Device, use the ADDRESS switch on the External Device and the setting tool (Smart Loader Package SLP-A45).

Refer to your Controller manual for details.

• ADDRESS switch

Set to "1" using the ADDRESS switch. After setting them, reboot the External Device.

• Setting tool

1 Start up the setting tool.

2 Select the [Port setup] from [Menu] menu, and select the using Communication port.

3 Select the [Set up] from [Menu] menu.

4 Set the [RS-485 communications settings] as follows:

Setup Items	Settings
Data format	0:8 bits, even parity, 1 stop bit
Transmission speed	19200bps

5 Write the settings into the External Device, and reboot the External Device.

3.43　　Setting Example 43

■ Setting of GP-Pro EX

◆ Communication Settings

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

Device/PLC 1	

Summary   Change Device/PLC

Manufacturer Azbil Corporation   Series   Controller(CPL)   Port COM1

Text Data Mode   1   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	10 ⊟ (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   Add Device
of Devices/PLCs   31
                                                                    Add Indirect
No. Device Name   Settings   Device

1	PLC1		Series=RX,Device Address=1,Sub Address=0	

◆ Device Setting

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

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

Individual Device Settings ×

PLC1

Series	RX

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

Device Address	1
Sub Address	0

Default

OK (O)   Cancel

■ Settings of External Device

To configure communication settings for the External Device, use the setting tool (Smart Loader Package SLP-RXE).

Refer to your Controller manual for details.

1 Start up the setting tool.

2 Select the [COM port settings] from [Port setup] menu, and set the port used to communicate.

3 Insert the loader cable into the loader jack of the External Device, and select the [Connect] from [Online] menu.

The current settings of the External Device are displayed.

4 Select the [Communication]-[Host communication]-[RS-485] in the tree view.

5 Set the following settings.

Code	Settings	Setup Description
F-1	1	Host communication RS-485 Station address
F-2	19200	Host communication RS-485 Baud rate
F-3	Even parity, 1 stop bit	8-bit data, even parity, 1 stop bit
F-4	CPL	Host communication RS-485 Protocol
F-5	Disable	RX-R start by communication enable

6 Write the settings into the External Device.

4 Setup Items

Set the communication settings of the Display with GP-Pro Ex or in offline mode of the Display.
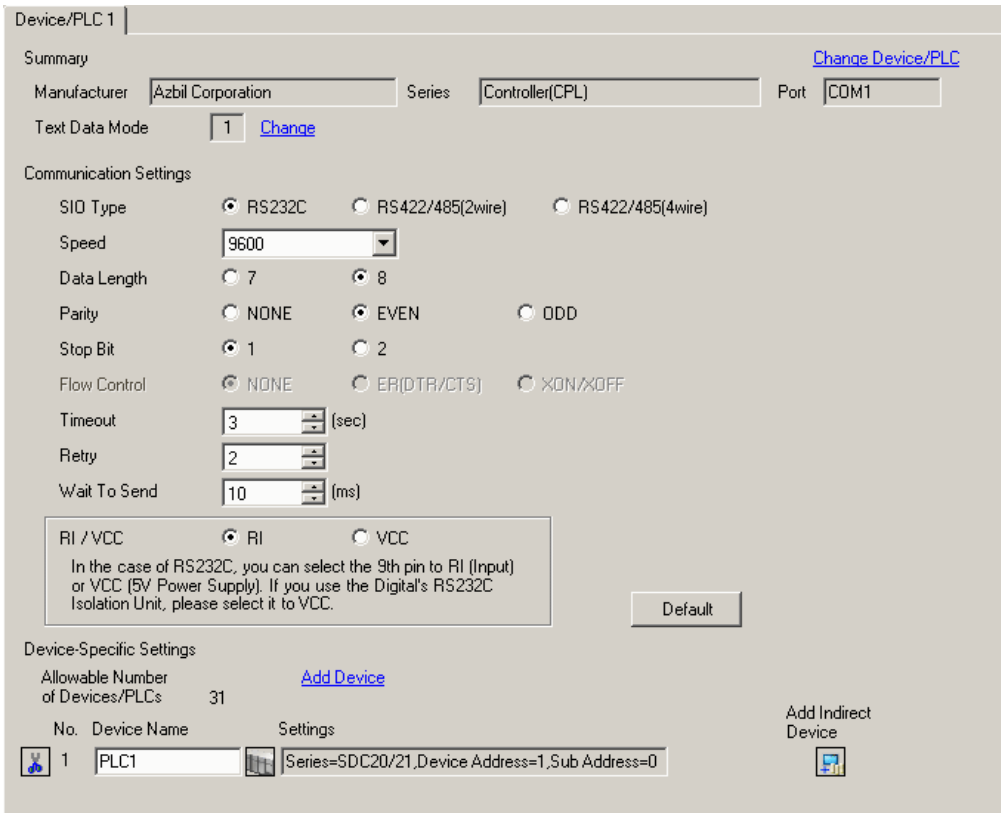
The setting of each parameter must match that of the External Device.

☞ "3 Example of Communication Setting" (page 12)

4.1 Setup Items in GP-Pro EX

■ Communication Settings

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

Setup Items	Setup Description
SIO Type	Select the SIO type for communicating with the External Device.
Speed	Select the communication speed between the External Device and the Display.
Data Length	Select a data length.
Parity	Select how to check parity.
Stop Bit	Select a stop bit length.
Flow Control	Displays the communication control method to prevent overflow of transmission and reception data.
Timeout	Enter the time (s) for which the Display waits for a response from the External Device, from "1 to 127".

Setup Items	Setup Description
Retry	In case of no response from the External Device, enter how many times the Display retransmits the command, from "0 to 255".
Wait To Send	Enter the standby time (ms) from when the Display receives packets until it transmits the next command, from "0 to 255".
RI/VCC	Switches between RI/VCC of the 9th pin. To connect to the IPC, you need to switch between RI/5V using the IPC selector switch. Refer to your IPC manual for details.

NOTE • Refer to the GP-Pro EX Reference Manual for Indirect Device.

    Cf.   GP-Pro EX Reference Manual "Changing the Device/PLC at Runtime (Indirect Device)"

■ Device Setting

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

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

Setup Items	Setup Description
Series	Displays the model of the External Device.
Device Address	Enter the address of the External Device, from "1 to 127".
Sub Address	Enter "0" to communicate with the External Device. If you communicate with the child station (External Device) via the parent station (CMC10B, DMC10, or DMC50), however, enter "1 to 31" for the child station address.

4.2 Settings in Offline Mode

NOTE

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

Cf. Maintenance/Troubleshooting Guide "Offline Mode"

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

■ Communication Settings

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

Comm.	Device	Option		

Digital Controller SIO   [COM1]   Page 1/1

```
            SIO Type        RS422/485(2wire)    ▼
            Speed           9600                ▼
            Data Length     ○ 7       ● 8
            Parity          ○ NONE    ● EVEN    ○ ODD
            Stop Bit        ● 1       ○ 2
            Flow Control    NONE

            Timeout(s)                    3  ▼ ▲
            Retry                         2  ▼ ▲
            Wait To Send(ms)             10  ▼ ▲
```

| | Exit | | Back | 2007/10/20 04:02:40 |

Setup Items	Setup Description
SIO Type	Select the SIO type for communicating with the External Device. IMPORTANT In the communication settings, set [SIO Type] correctly according to the serial interface specifications of the Display. If you select an SIO type that the serial interface does not support, proper operation cannot be guaranteed. Refer to your Display manual for details on the serial interface specifications.
Speed	Select the communication speed between the External Device and the Display.
Data Length	Select a data length.
Parity	Select how to check parity.
Stop Bit	Select a stop bit length.

Continued to next page.

Setup Items	Setup Description
Flow Control	Displays the communication control method to prevent overflow of transmission and reception data.
Timeout	Enter the time (s) for which the Display waits for a response from the External Device, from "1 to 127".
Retry	In case of no response from the External Device, enter how many times the Display retransmits the command, from "0 to 255".
Wait To Send	Enter the standby time (ms) from when the Display receives packets until it transmits the next command, from "0 to 255".

■ Device Setting

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

Comm.	Device	Option		

Digital Controller SIO   [COM1]   Page 1/1

Device/PLC Name   PLC1   ▼

Series   SDC25/26

Device Address   1 ▼ ▲

Sub Address   0 ▼ ▲

| | Exit | | Back | 2007/10/20 04:02:56 |

Setup Items	Setup Description
Device/PLC Name	Select the External Device to set. Device name is the title of the External Device set with GP-Pro EX. (Initial value [PLC])
Series	Displays the model of the External Device.
Device Address	Enter the address of the External Device, from "1 to 127".
Sub Address	Enter "0" to communicate with the External Device. If you communicate with the child station (External Device) via the parent station (CMC10B, DMC10, or DMC50), however, enter "1 to 31" for the child station address.

■ Option

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

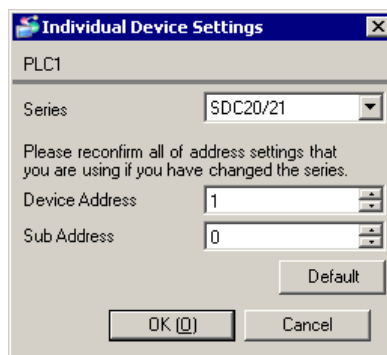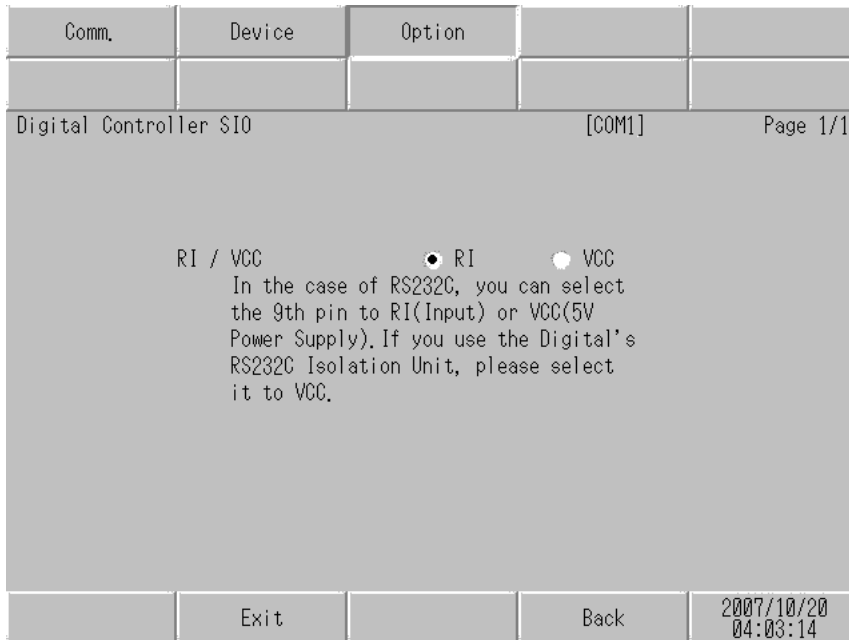| Setup Items	Setup Description
RI/VCC	Switches between RI/VCC of the 9th pin. To connect to the IPC, you need to switch between RI/5V using the IPC selector switch. Refer to your IPC manual for details.

NOTE

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

5   Cable Diagram

The cable diagram shown below may differ from that recommended by Azbil Corporation. Please be assured, however, that there is no operational problem in applying the cable diagram shown in this manual.

- The FG pin on the External Device must be D-class grounded. Refer to your External Device manual for details.
- The SG and FG are connected inside the Display. If you connect the External Device to the SG, do not form any short-circuit loop in the system design.
- Consult your External Device manual for the pin No. on the External Device side. It varies depending on the additional function.
- If the communication is not stable because of noise or other factors, connect an isolation unit.
- Recommended cable

Company Name		Model
Fujikura Densen, Ltd.	Duplex	IPEV-S-0.9mm^2 x 1P
	Triplex	ITEV-S-0.9mm^2 x 1T
Hitachi Cable, Ltd.	Duplex	KPEV-S-0.9mm^2 x 1P
	Triplex	KTEV-S-0.9mm^2 x 1T

Cable Diagram 1

Display (Connection Port)		Cable	Remarks
GP3000 (COM1) GP4000[1] (COM1) SP5000 (COM1/2) ST (COM1) LT3000 (COM1) IPC[2] PC/AT	1A	User-created cable	Cable length: 15m or less
GP-4105 (COM1)	1B	User-created cable	Cable length: 15m or less
LT-4*01TM (COM1) LT-Rear Module (COM1)	1C	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJR21	Cable length: 5m or less

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

*2   Available only with COM ports that support RS-232C.
☞ ■ IPC COM Port (page 9)

1A)
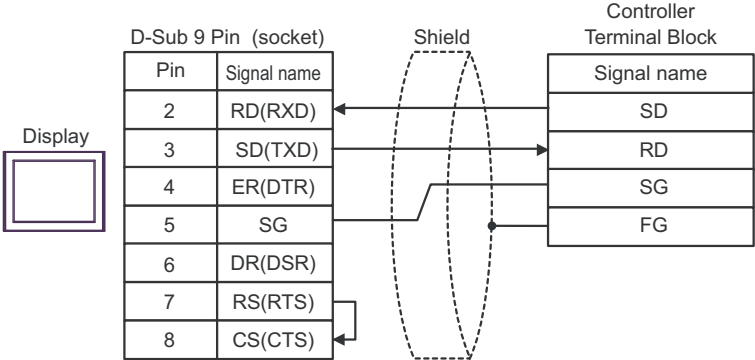
1B)
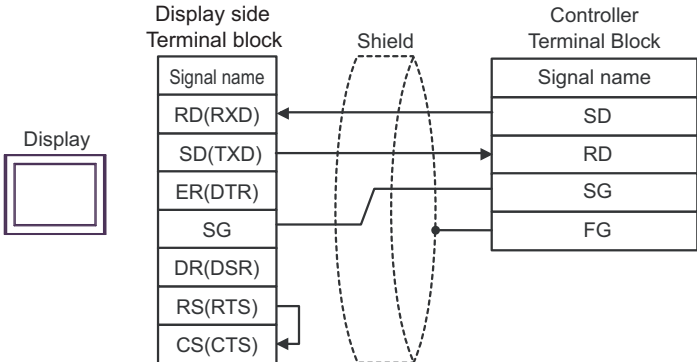
1C)
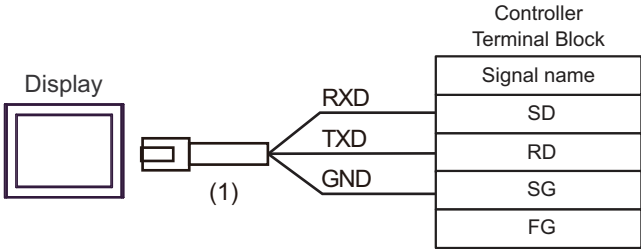
Number	Name	Notes
(1)	RJ45 RS-232C Cable (5m) by Pro-face PFXZLMCBRJR21	

Cable Diagram 2

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1) IPC[*3]	2A	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 or less
	2B	User-created cable	
GP3000[*4] (COM2)	2C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	2D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1)	2E	User-created cable	Cable length: 500m or less
GP4000[*5] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	2F	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*6] + User-created cable	Cable length: 500m or less
	2B	User-created cable	

*1   All GP3000 models except AGP-3302B

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

*3   Available only with COM ports that support RS-422/485 (4wire).
          ☞ ■ IPC COM Port (page 9)

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

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

*6   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block
        Conversion Adapter, refer to Cable Diagram 2A.

2A)

• 1:1 Connection
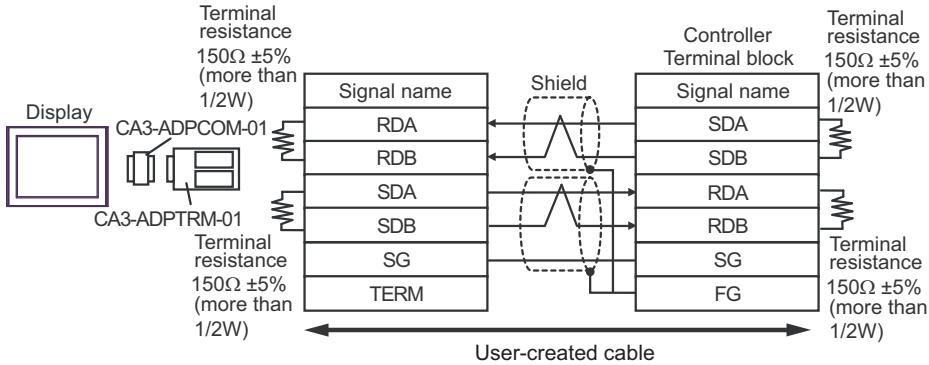
• 1:n Connection

2B)

• 1:1 Connection

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

D-Sub 9 Pin (socket)

Terminal resistance 150Ω ±5% (more than 1/2W)

Terminal resistance 150Ω ±5% (more than 1/2W)

Display

Shield

Controller Terminal block

Signal name
SDA
SDB
RDA
RDB
SG
FG

Terminal resistance 150Ω ±5% (more than 1/2W)

Terminal resistance 150Ω ±5% (more than 1/2W)

• 1:n Connection

Terminal resistance 150Ω ±5% (more than 1/2W)

D-Sub 9 Pin (socket)

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Display

Terminal resistance 150Ω ±5% (more than 1/2W)

Shield

Controller Terminal block

Signal name
SDA
SDB
RDA
RDB
SG
FG

Shield

Controller Terminal block

Signal name
SDA
SDB
RDA
RDB
SG
FG

Terminal resistance 150Ω ±5% (more than 1/2W)

Terminal resistance 150Ω ±5% (more than 1/2W)

2C)

• 1:1 Connection

• 1:n Connection

2D)

• 1:1 Connection

		D-Sub 9 Pin (plug)				Controller Terminal block	
Terminal resistance 150Ω ±5% (more than 1/2W)		Pin	Signal name	Shield		Terminal resistance 150Ω ±5% (more than 1/2W)	
		1	TERMRX			Signal name	
	CA4-ADPONL-01	2	RDA			SDA	
Display		7	RDB			SDB	
		3	SDA			RDA	
		8	SDB			RDB	
Terminal resistance 150Ω ±5% (more than 1/2W)		5	SG			SG	Terminal resistance 150Ω ±5% (more than 1/2W)
		9	TERMTX			FG	
		Shell	FG				

User-created cable

• 1:n Connection

		D-Sub 9 Pin (plug)			Controller Terminal block		Controller Terminal block	
Terminal resistance 150Ω ±5% (more than 1/2W)		Pin	Signal name	Shield	Signal name	Shield	Signal name	Terminal resistance 150Ω ±5% (more than 1/2W)
		1	TERMRX					
Display	CA4-ADPONL-01	2	RDA		SDA		SDA	
		7	RDB		SDB		SDB	
		3	SDA		RDA		RDA	
Terminal resistance 150Ω ±5% (more than 1/2W)		8	SDB		RDB		RDB	
		5	SG		SG		SG	Terminal resistance 150Ω ±5% (more than 1/2W)
		9	TERMTX		FG		FG	
		Shell	FG					

User-created cable

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	ON
2	ON
3	ON
4	ON

2F)

- 1:1 Connection

- 1:n Connection

Cable Diagram 3

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	3A	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 or less
	3B	User-created cable	
GP3000[*3] (COM2)	3C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	3D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	3E	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 or less
	3F	User-created cable	
GP-4106 (COM1)	3G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	3H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	3I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	3B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	3J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1   All GP3000 models except AGP-3302B

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

*3   All GP3000 models except the GP-3200 Series and AGP-3302B

*4   Available only with COM ports that support RS-422/485 (2wire).
☞ ■ IPC COM Port (page 9)

*5   Except GP-4203T

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

*7   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 3A.

3A)

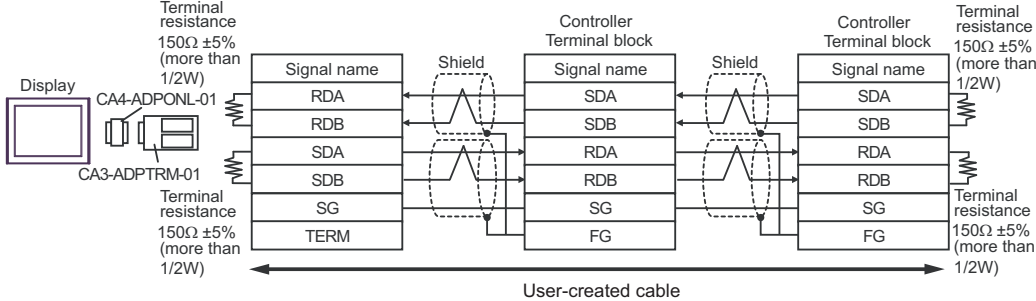• 1:1 Connection

User-created cable

• 1:n Connection

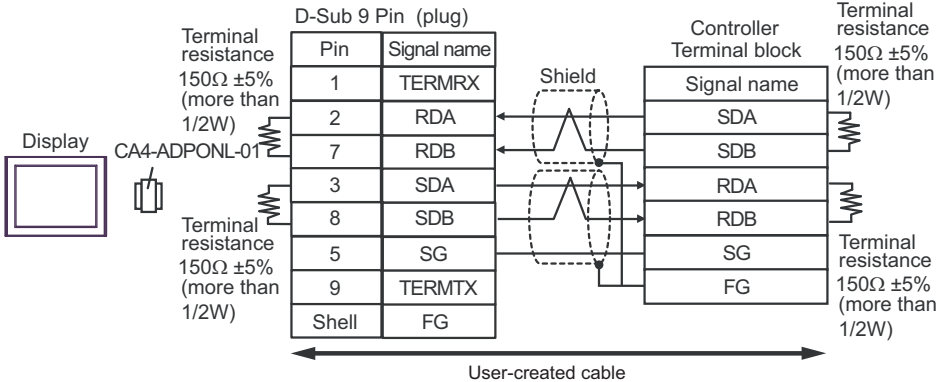User-created cable
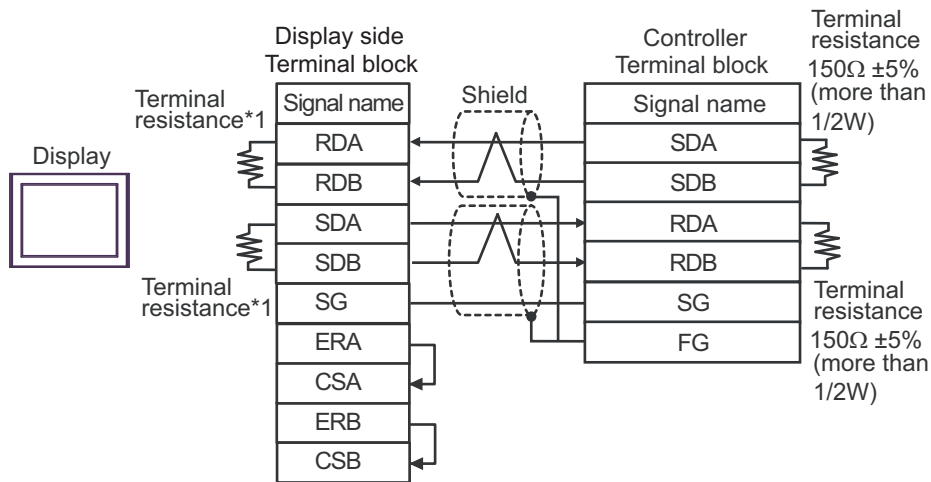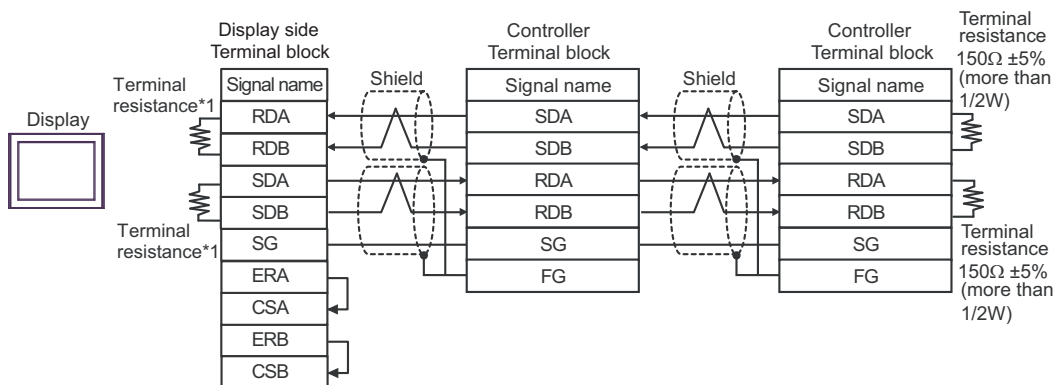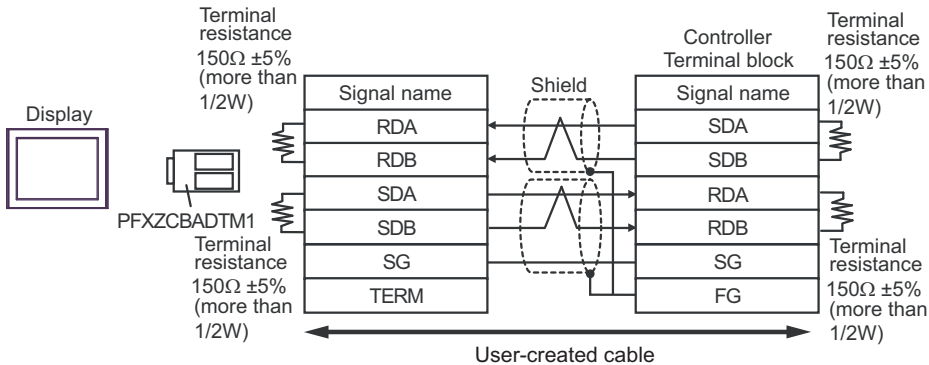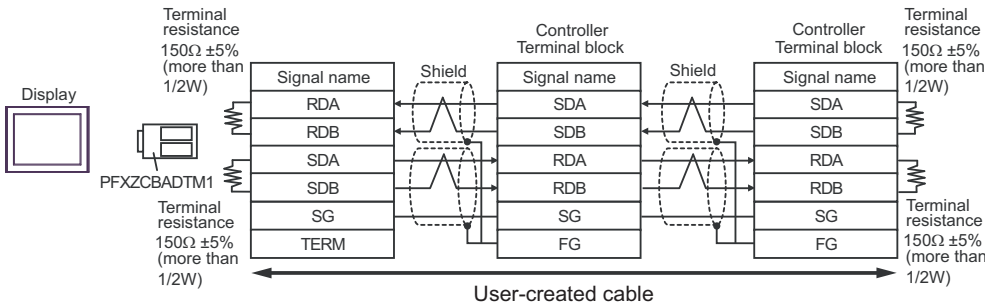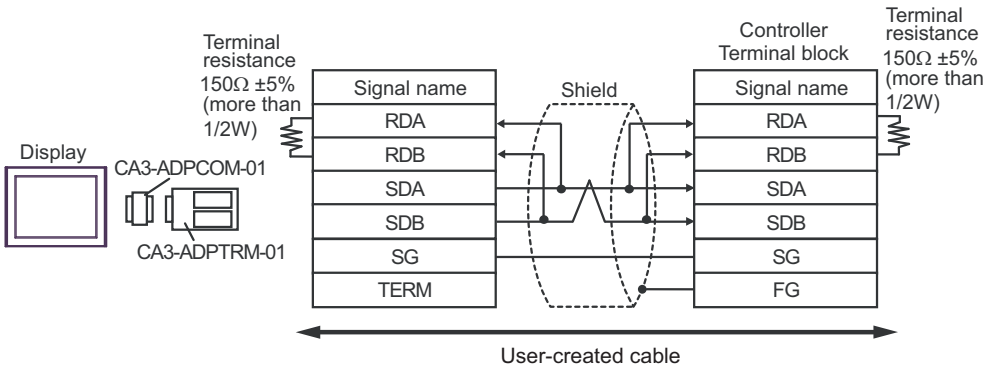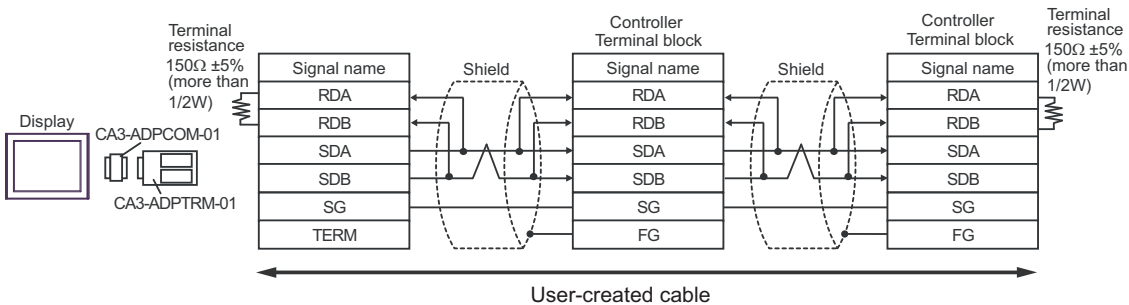
3B)

• 1:1 Connection

• 1:n Connection

3C)

• 1:1 Connection

Terminal resistance 150Ω ±5% (more than 1/2W)

Display

CA4-ADPONL-01

CA3-ADPTRM-01

Signal name	Shield	Signal name
RDA		RDA
RDB		RDB
SDA		SDA
SDB		SDB
SG		SG
TERM		FG

Controller Terminal block

Terminal resistance 150Ω ±5% (more than 1/2W)

User-created cable

• 1:n Connection

Terminal resistance 150Ω ±5% (more than 1/2W)

Display

CA4-ADPONL-01

CA3-ADPTRM-01

Signal name	Shield	Signal name	Shield	Signal name
RDA		RDA		RDA
RDB		RDB		RDB
SDA		SDA		SDA
SDB		SDB		SDB
SG		SG		SG
TERM		FG		FG

Controller Terminal block

Controller Terminal block

Terminal resistance 150Ω ±5% (more than 1/2W)

User-created cable

3D)

• 1:1 Connection

• 1:n Connection

3E)

•   1:1 Connection

User-created cable
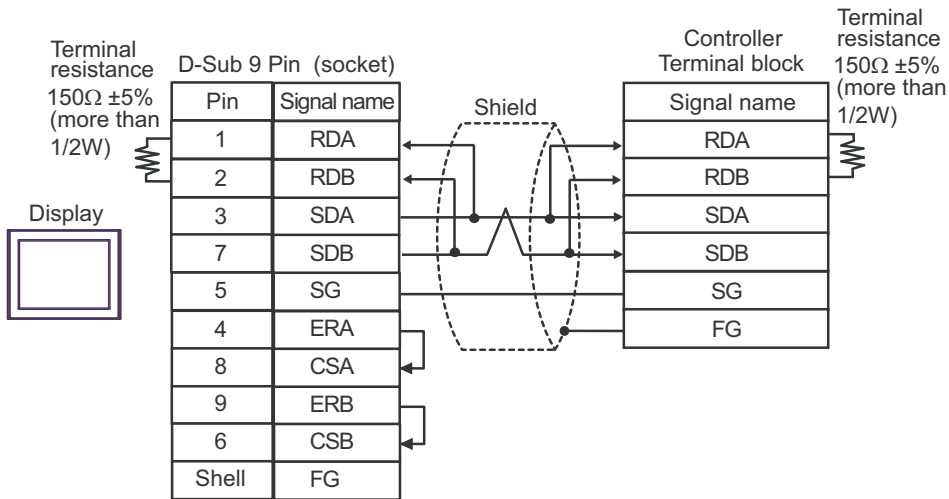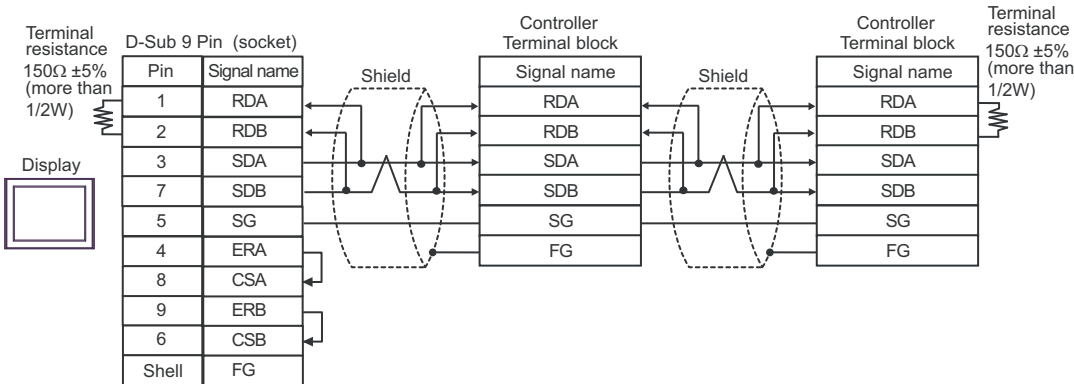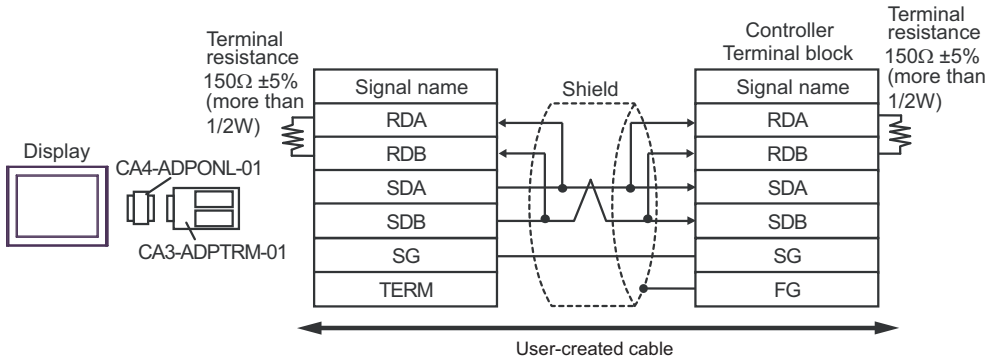
•   1:n Connection

User-created cable
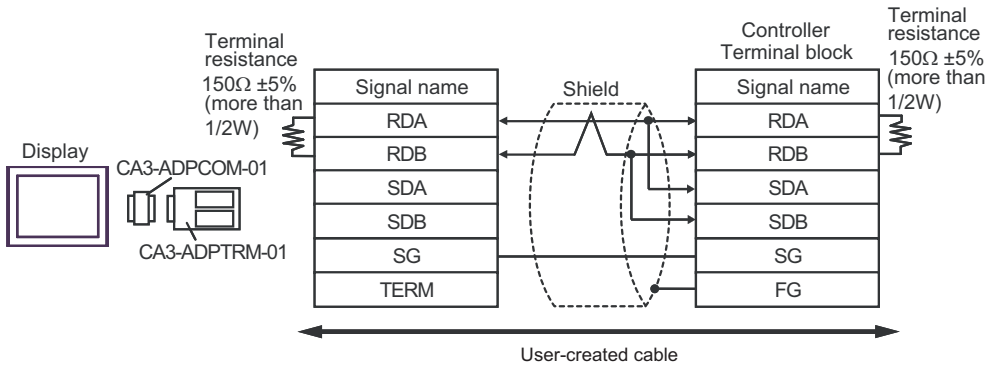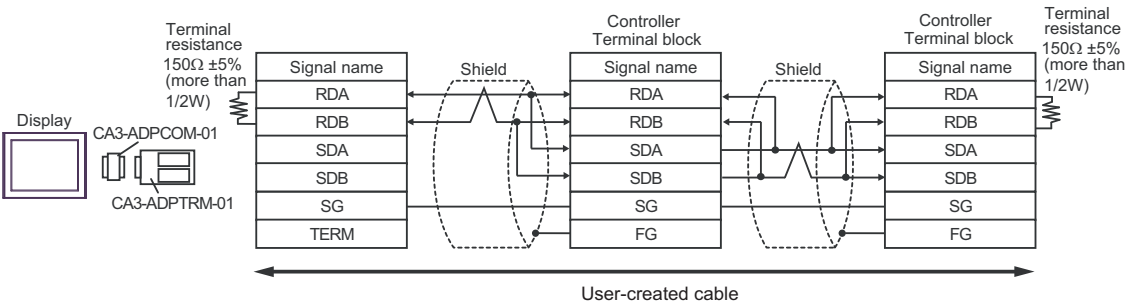
3F)
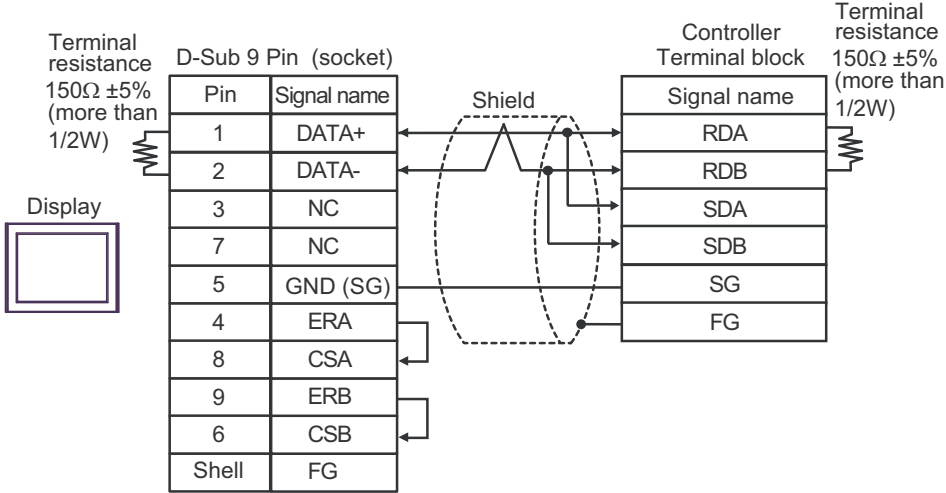
• 1:1 Connection
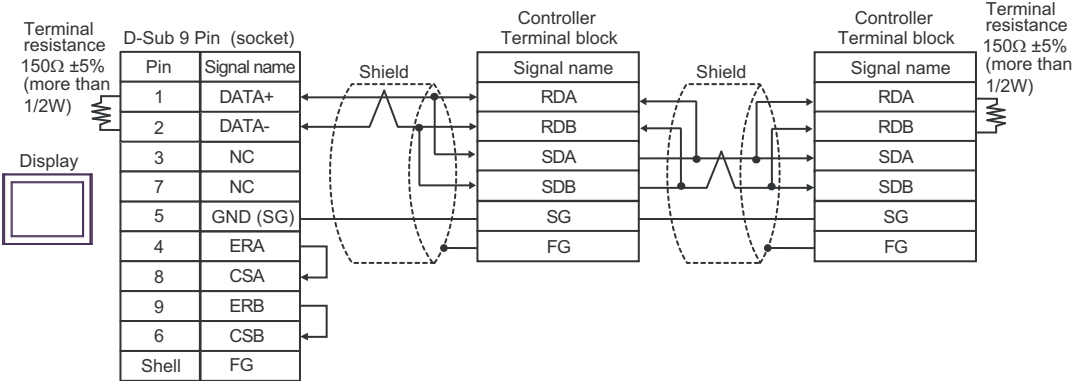
• 1:n Connection
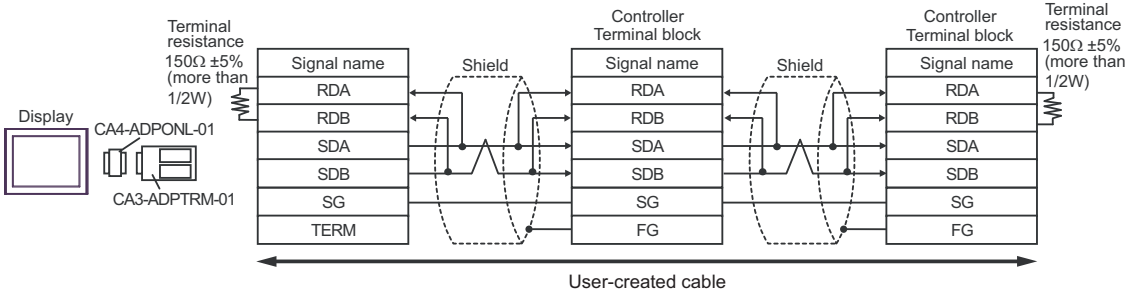
3G)

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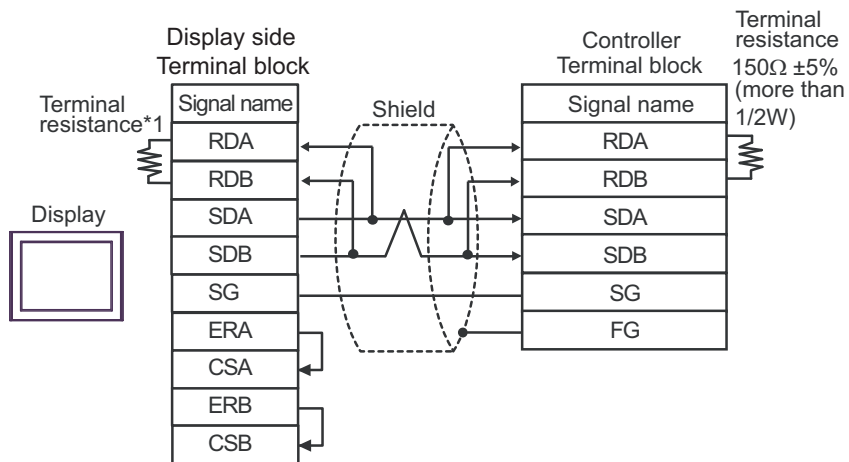
• 1:n Connection
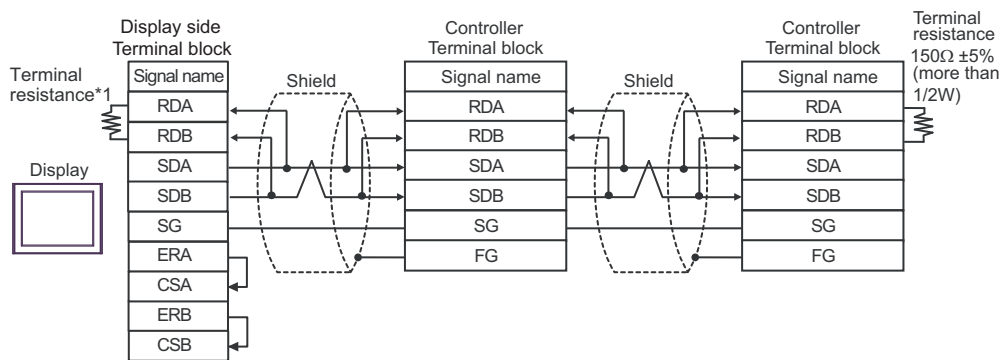
*1   The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

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

3H)

- 1:1 Connection
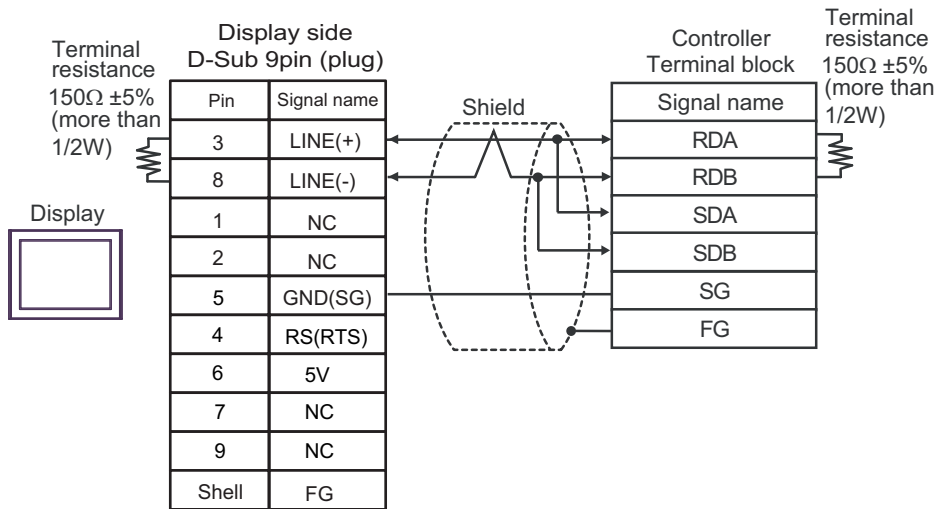
- 1:n Connection
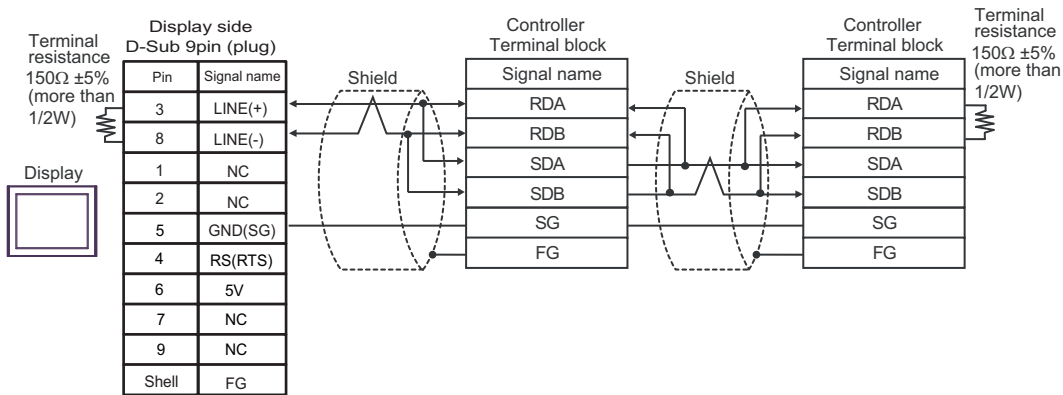
IMPORTANT	• The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE	• In COM on the GP-4107, the SG and FG terminals are isolated.

3I)

- 1:1 Connection

User-created cable

- 1:n Connection

User-created cable
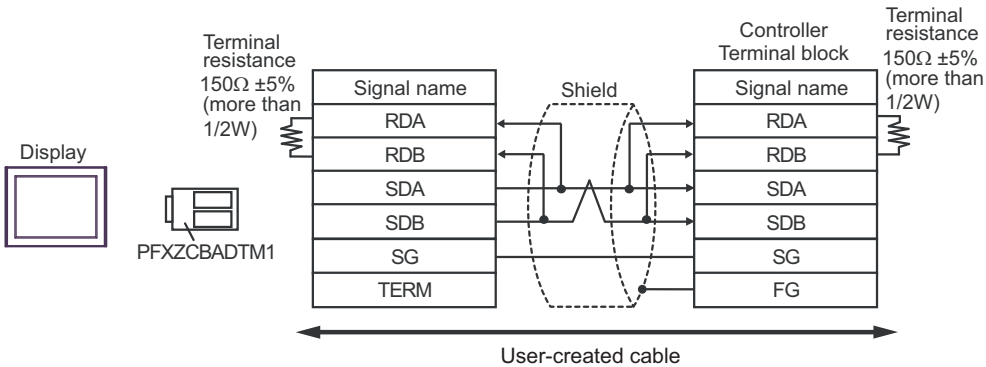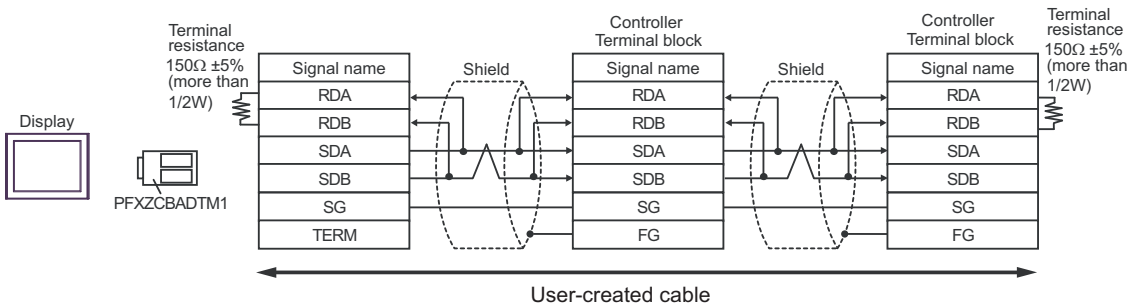
3J)

- 1:1 Connection

- 1:n Connection

User-created Cable
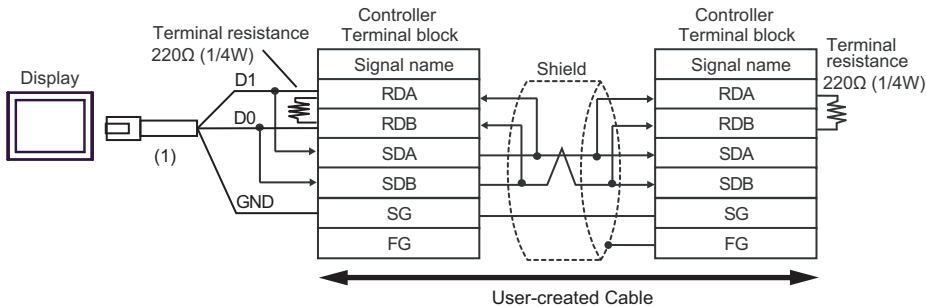
Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

Cable Diagram 4

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	4A	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 or less
	4B	User-created cable	
GP3000[*3] (COM2)	4C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	4D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	4E	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 or less
	4F	User-created cable	
GP-4106 (COM1)	4G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	4H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	4I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	4B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	4J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1   All GP3000 models except AGP-3302B

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

*3   All GP3000 models except the GP-3200 Series and AGP-3302B

*4   Available only with COM ports that support RS-422/485 (2wire).
        ☞ ■ IPC COM Port (page 9)

*5   Except GP-4203T

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

*7   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 4A.

4A)

• 1:1 Connection
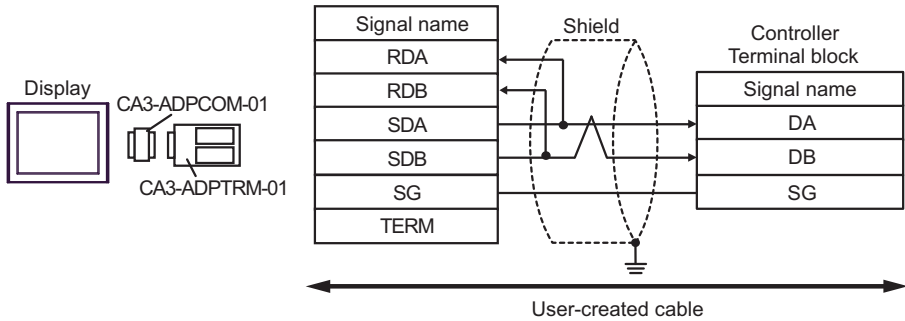
Signal name
RDA
RDB
SDA
SDB
SG
TERM

Display CA3-ADPCOM-01

CA3-ADPTRM-01

Shield

Controller Terminal block

Signal name
DA
DB
SG

User-created cable

NOTE

• No termination resistor is required.

• 1:n Connection

Signal name
RDA
RDB
SDA
SDB
SG
TERM

Display CA3-ADPCOM-01

CA3-ADPTRM-01

Shield

Controller Terminal block

Signal name
DA
DB
SG

Shield

Controller Terminal block

Signal name
DA
DB
SG

User-created cable
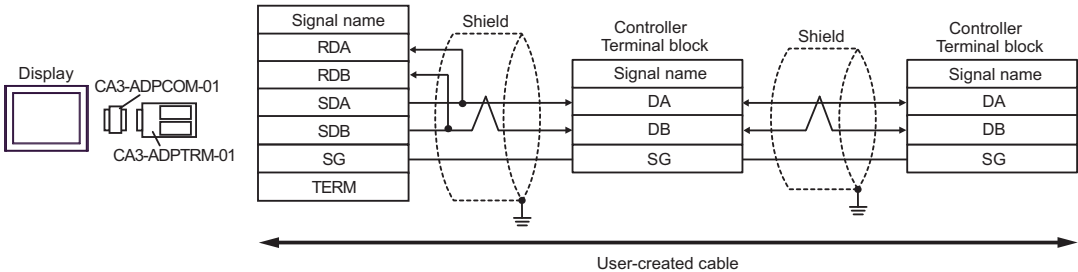
NOTE

• No termination resistor is required.

4B)

• 1:1 Connection
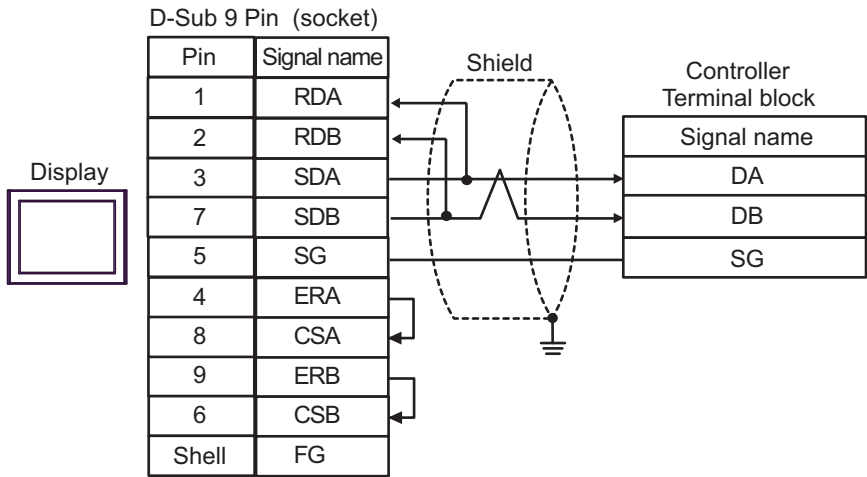
D-Sub 9 Pin (socket)

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Display

Shield

Controller
Terminal block

Signal name
DA
DB
SG

NOTE   • No termination resistor is required.

• 1:n Connection

D-Sub 9 Pin (socket)

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Display

Shield

Controller
Terminal block

Signal name
DA
DB
SG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
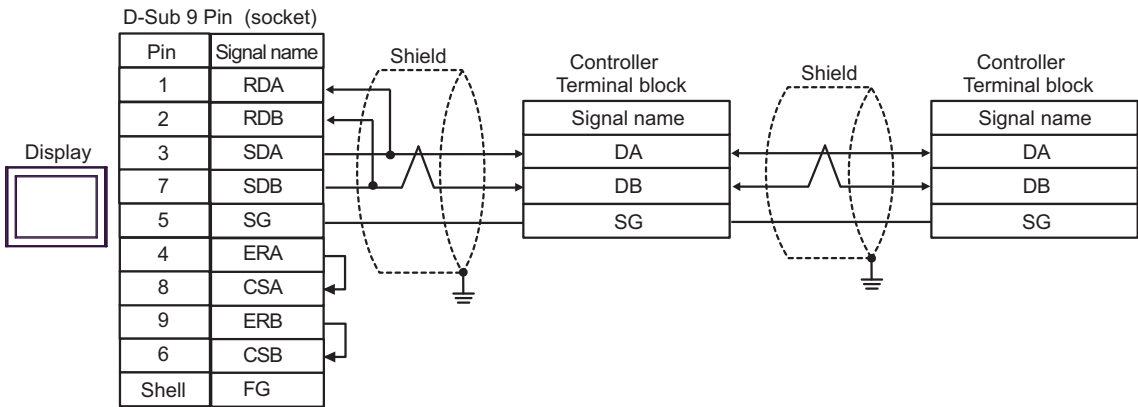
NOTE   • No termination resistor is required.

4C)

- 1:1 Connection
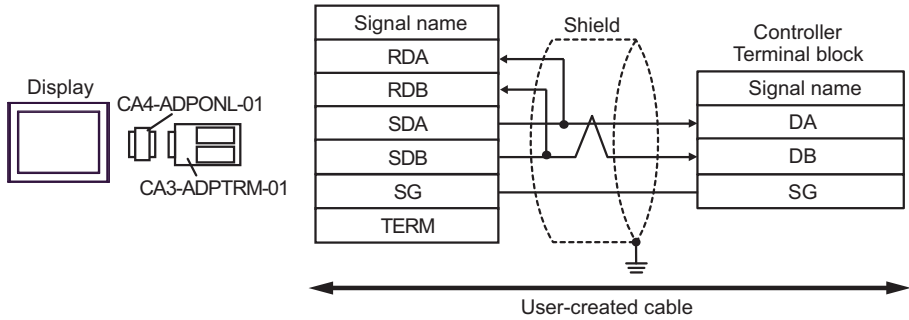
User-created cable

NOTE • No termination resistor is required.

- 1:n Connection

User-created cable
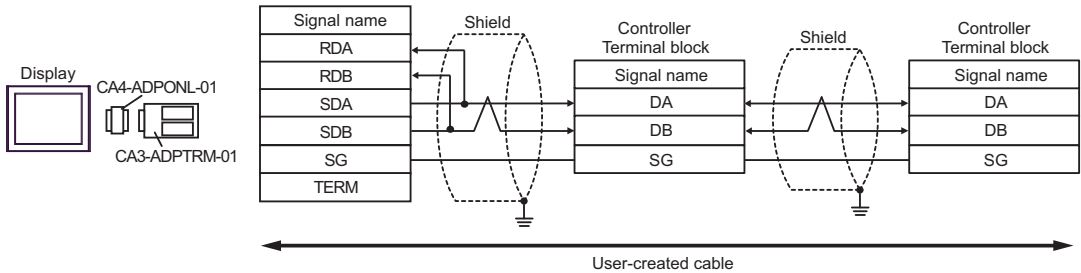
NOTE • No termination resistor is required.

4D)

• 1:1 Connection
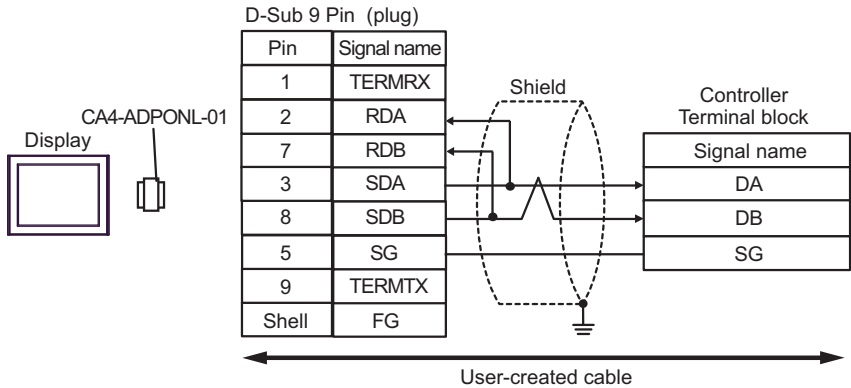
D-Sub 9 Pin (plug)

Pin	Signal name
1	TERMRX
2	RDA
7	RDB
3	SDA
8	SDB
5	SG
9	TERMTX
Shell	FG

CA4-ADPONL-01

Display

Shield

Controller
Terminal block

Signal name
DA
DB
SG

User-created cable

NOTE
• No termination resistor is required.

• 1:n Connection

D-Sub 9 Pin (plug)

Pin	Signal name
1	TERMRX
2	RDA
7	RDB
3	SDA
8	SDB
5	SG
9	TERMTX
Shell	FG

CA4-ADPONL-01

Display

Shield

Controller
Terminal block

Signal name
DA
DB
SG

Shield

Controller
Terminal block

Signal name
DA
DB
SG

User-created cable
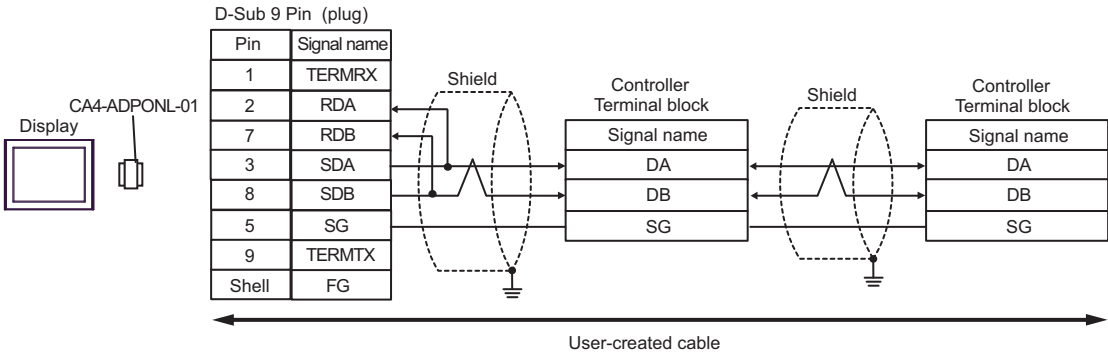
NOTE
• No termination resistor is required.

4E)

• 1:1 Connection
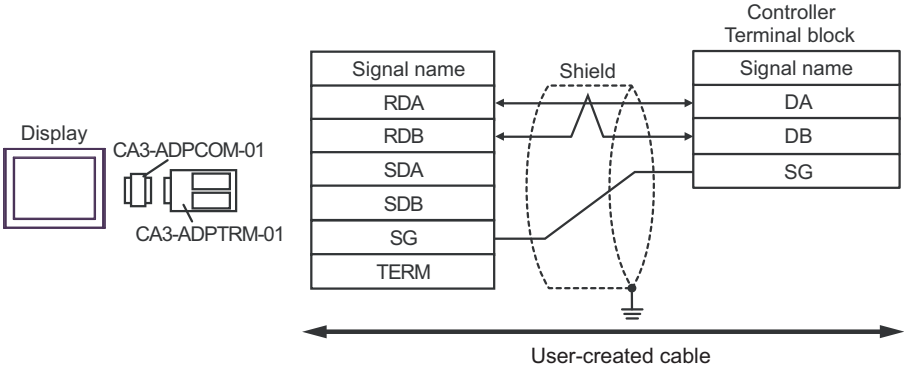
User-created cable

| NOTE | • No termination resistor is required. |

• 1:n Connection

User-created cable
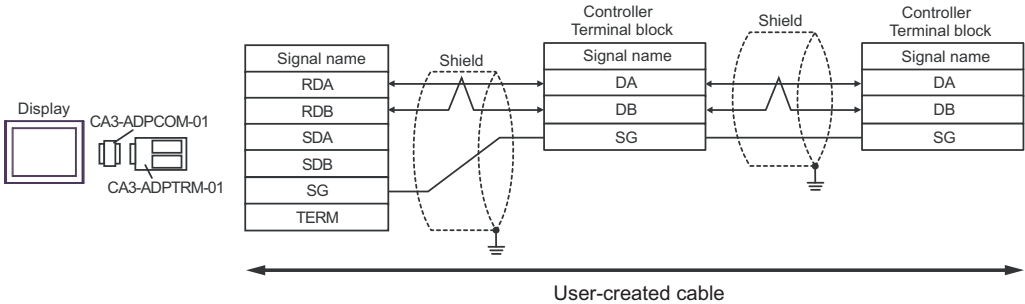
| NOTE | • No termination resistor is required. |

4F)

• 1:1 Connection
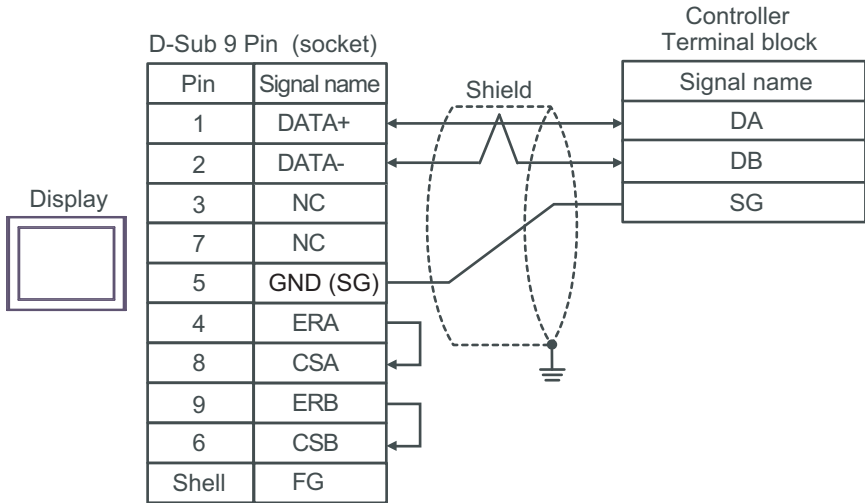
Controller
Terminal block

D-Sub 9 Pin (socket)

Pin	Signal name
1	DATA+
2	DATA-
3	NC
7	NC
5	GND (SG)
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG

Shield

Display

| NOTE | • No termination resistor is required. |

• 1:n Connection

Controller
Terminal block

Controller
Terminal block

D-Sub 9 Pin (socket)

Pin	Signal name
1	DATA+
2	DATA-
3	NC
7	NC
5	GND (SG)
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG

Signal name
DA
DB
SG

Shield

Shield

Display
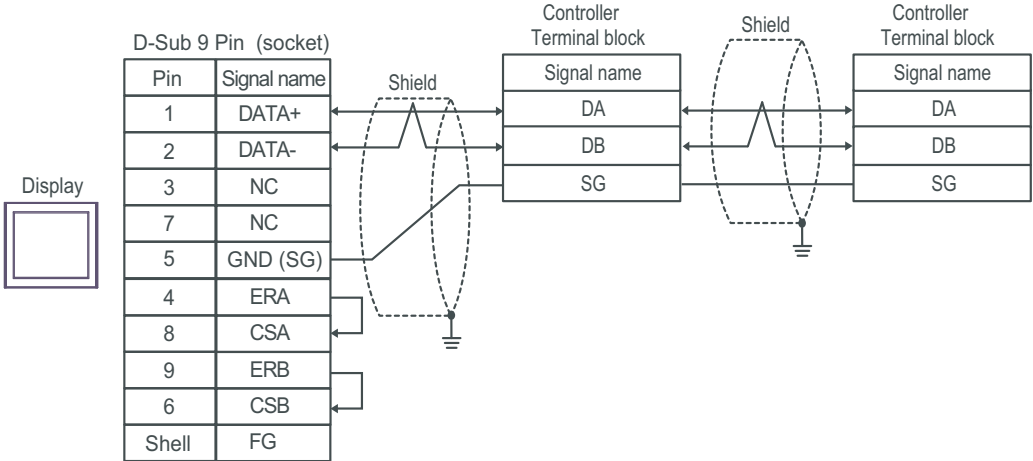
| NOTE | • No termination resistor is required. |

4G)

- 1:1 Connection
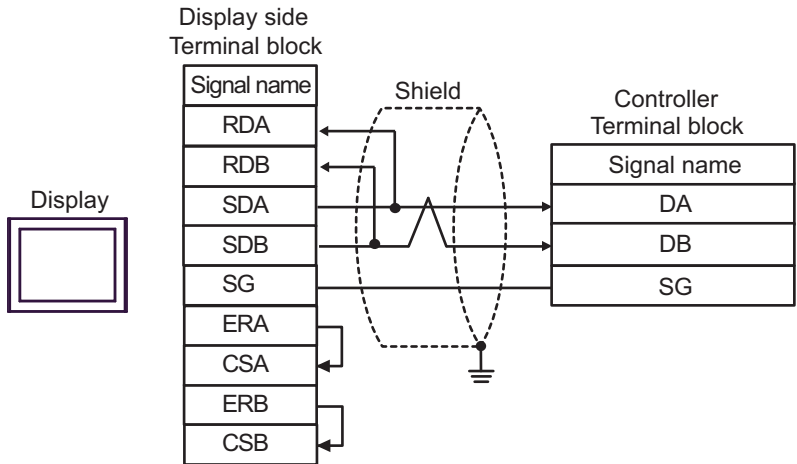
Display side
Terminal block

Signal name
RDA
RDB
SDA
SDB
SG
ERA
CSA
ERB
CSB

Shield

Display

Controller
Terminal block

Signal name
DA
DB
SG

NOTE
- No termination resistor is required.

- 1:n Connection

Display side
Terminal block

Signal name
RDA
RDB
SDA
SDB
SG
ERA
CSA
ERB
CSB

Shield

Display

Controller
Terminal block

Signal name
DA
DB
SG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
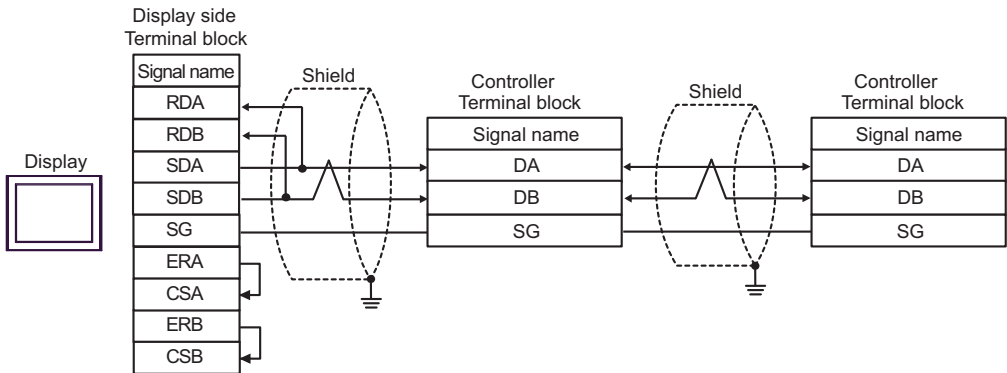
NOTE
- No termination resistor is required.

4H)

- 1:1 Connection
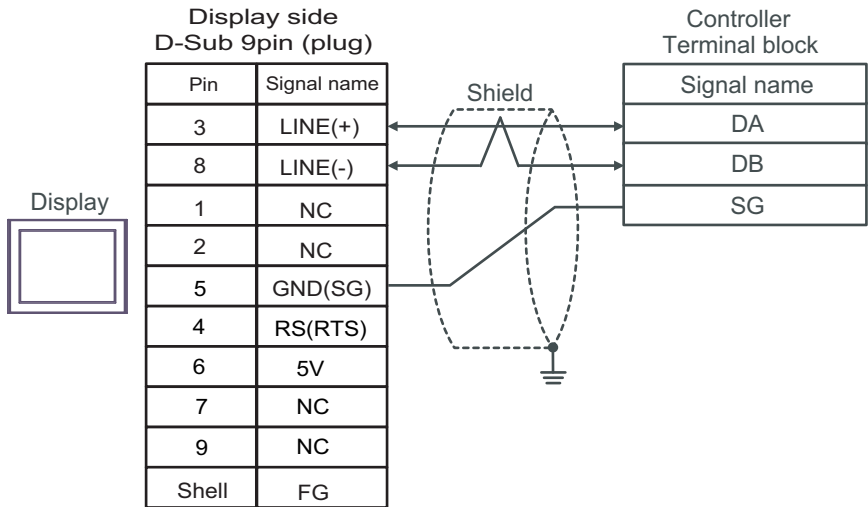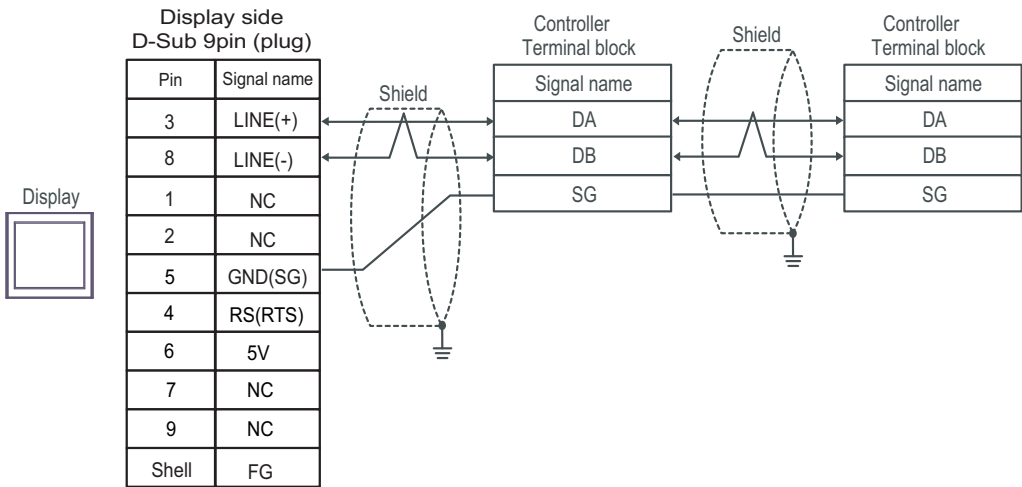
	Display side D-Sub 9pin (plug)			Controller Terminal block
Pin	Signal name	Shield		Signal name
3	LINE(+)			DA
8	LINE(-)			DB
1	NC			SG
2	NC			
5	GND(SG)			
4	RS(RTS)			
6	5V			
7	NC			
9	NC			
Shell	FG			

Display

NOTE
- No termination resistor is required.

- 1:n Connection

|	Display side D-Sub 9pin (plug)		Controller Terminal block	Shield	Controller Terminal block
Pin	Signal name	Shield	Signal name		Signal name
3	LINE(+)		DA		DA
8	LINE(-)		DB		DB
1	NC		SG		SG
2	NC				
5	GND(SG)				
4	RS(RTS)				
6	5V				
7	NC				
9	NC				
Shell	FG				

Display

IMPORTANT
- The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE
- No termination resistor is required.
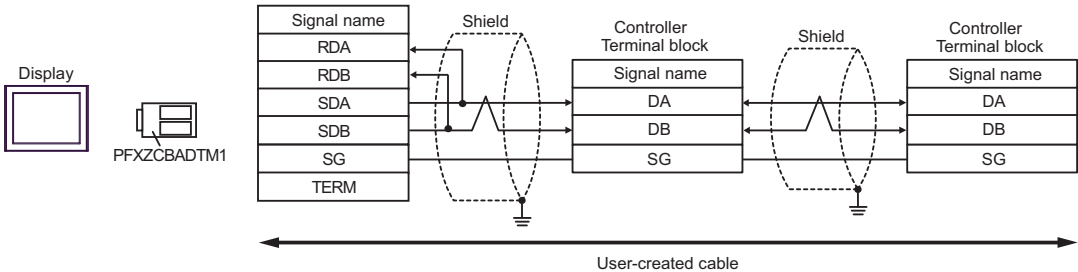- In COM on the GP-4107, the SG and FG terminals are isolated.

4I)

• 1:1 Connection
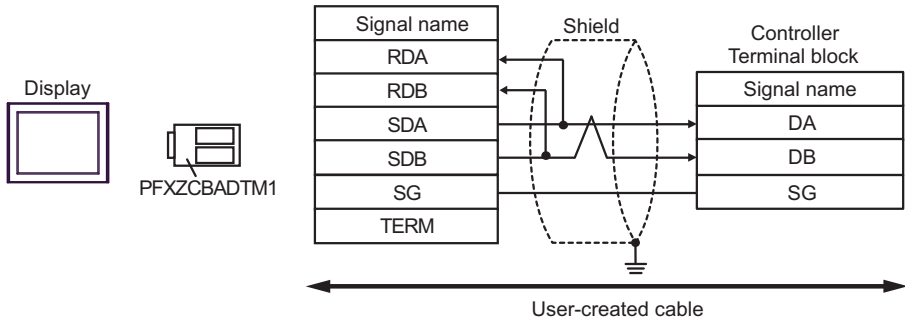
User-created cable

NOTE	• No termination resistor is required.

• 1:n Connection

User-created cable

NOTE	• No termination resistor is required.

4J)

• 1:1 Connection
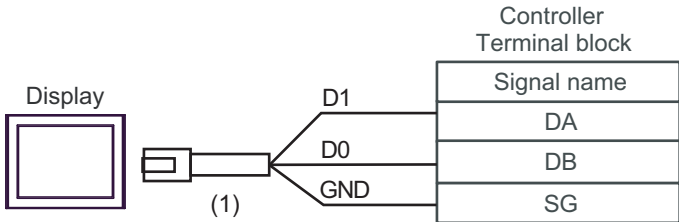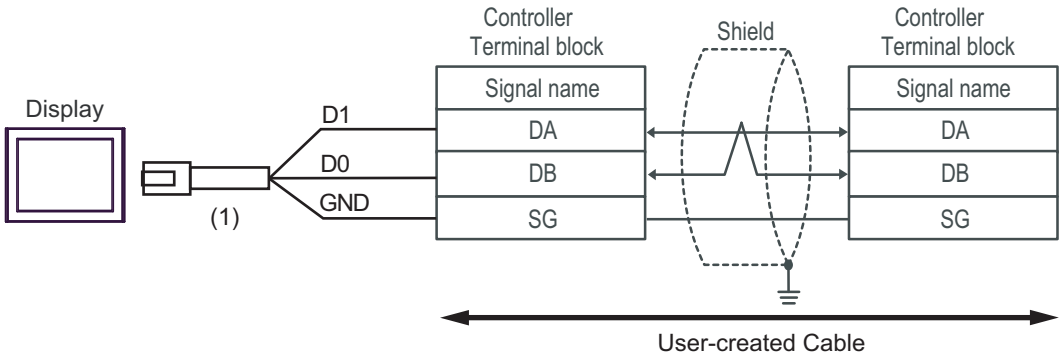
Controller
Terminal block

| Signal name |
| DA |
| DB |
| SG |

Display

D1
D0
GND
(1)

| NOTE | • No termination resistor is required. |

• 1:n Connection

Controller
Terminal block

Shield

Controller
Terminal block

| Signal name |
| DA |
| DB |
| SG |

| Signal name |
| DA |
| DB |
| SG |

Display

D1
D0
GND
(1)

User-created Cable

| NOTE | • No termination resistor is required. |

Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

Cable Diagram 5

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	5A	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 or less
	5B	User-created cable	
GP3000[*3] (COM2)	5C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	5D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	5E	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 or less
	5F	User-created cable	
GP-4106 (COM1)	5G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	5H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	5I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	5B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	5J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1   All GP3000 models except AGP-3302B

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

*3   All GP3000 models except the GP-3200 Series and AGP-3302B

*4   Available only with COM ports that support RS-422/485 (2wire).
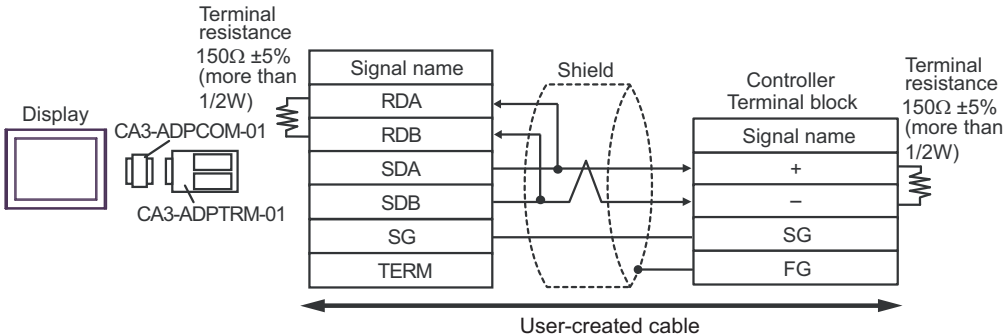   ☞ ■ IPC COM Port (page 9)

*5   Except GP-4203T

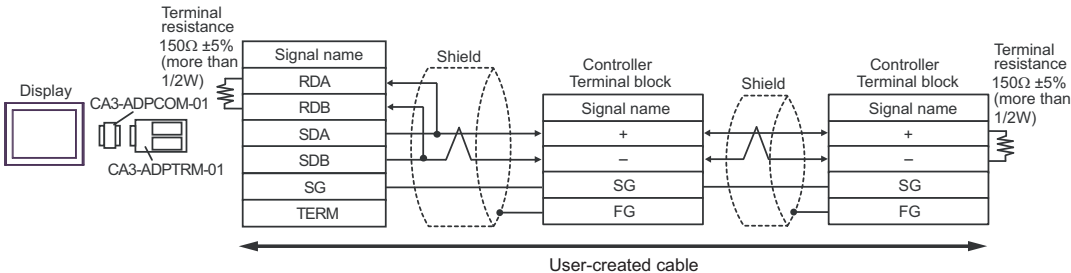*6   All GP4000 models except GP-4100 series, GP-4*01TM, GP-4201T and GP-4*03T

*7   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 5A.
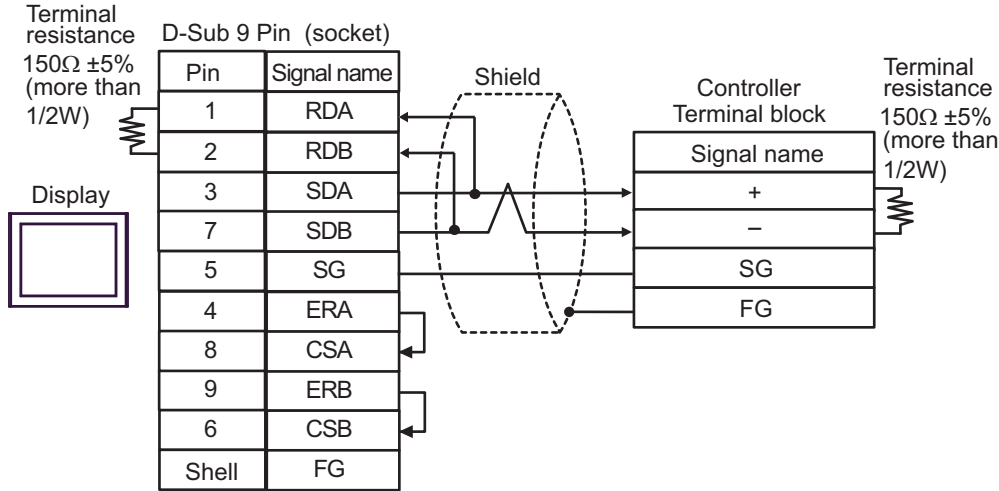
5A)

- 1:1 Connection
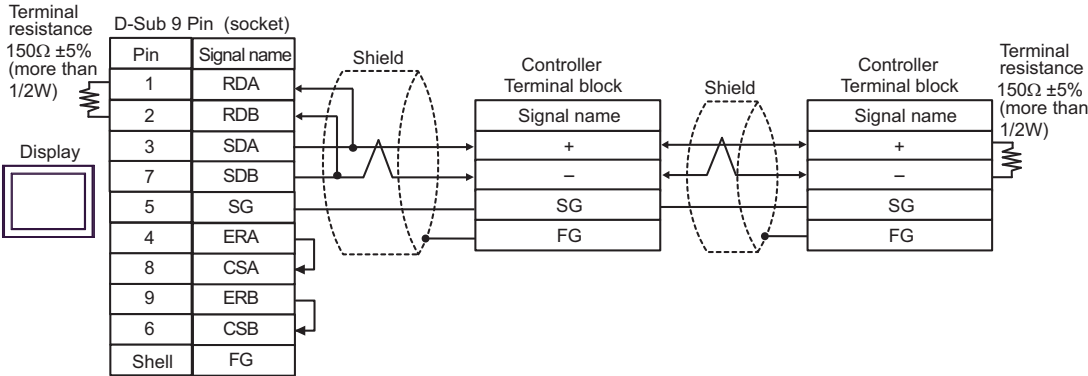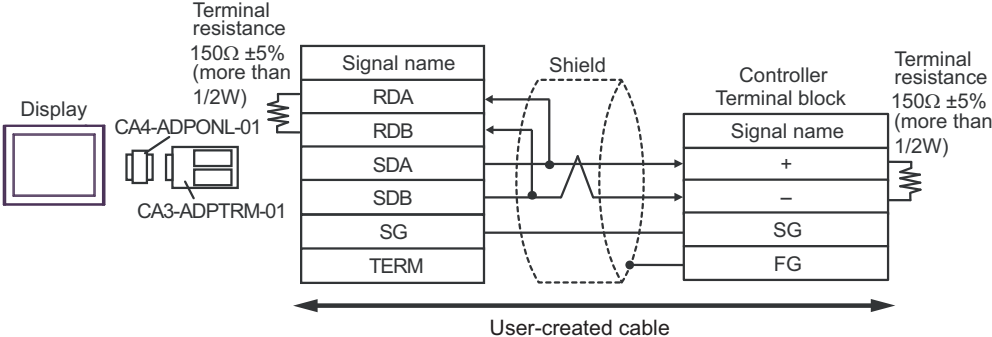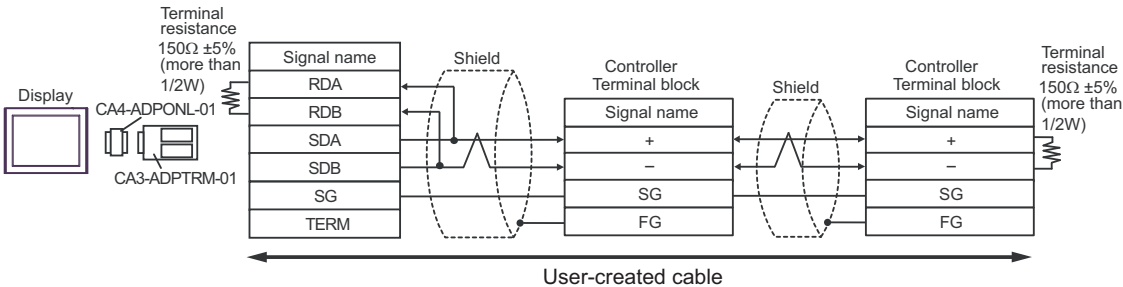

User-created cable

- 1:n Connection

User-created cable

5B)

• 1:1 Connection

• 1:n Connection

5C)

• 1:1 Connection

User-created cable

• 1:n Connection

User-created cable

5D)

• 1:1 Connection

User-created cable

• 1:n Connection

User-created cable

5E)

• 1:1 Connection

User-created cable

• 1:n Connection

User-created cable

5F)
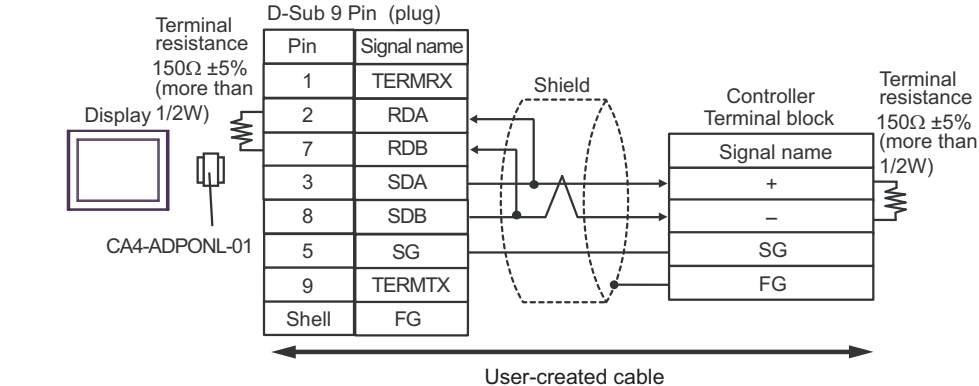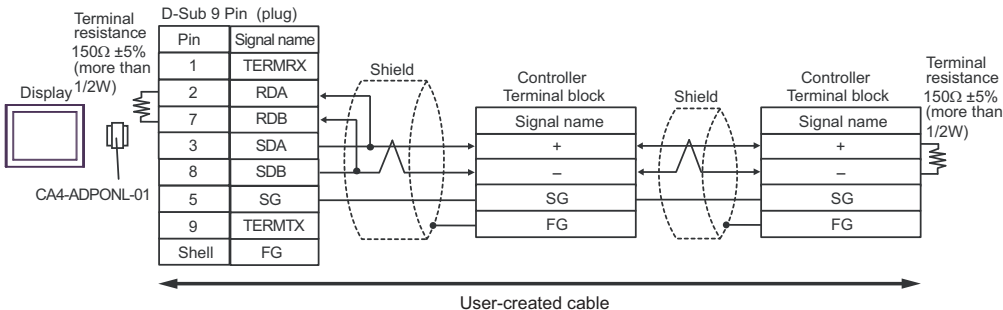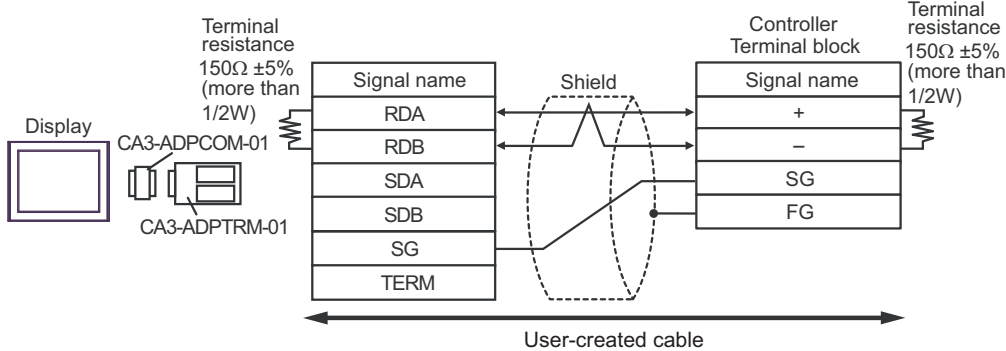
• 1:1 Connection

• 1:n Connection

5G)

• 1:1 Connection

Display side
Terminal block

| Terminal resistance*1 | Signal name | Shield | Controller Terminal block | Terminal resistance 150Ω ±5% (more than 1/2W) |

| Signal name |
| RDA |
| RDB |
| SDA |
| SDB |
| SG |
| ERA |
| CSA |
| ERB |
| CSB |

Display

Controller Terminal block

| Signal name |
| + |
| − |
| SG |
| FG |

• 1:n Connection

Display side
Terminal block

Terminal resistance*1

| Signal name |
| RDA |
| RDB |
| SDA |
| SDB |
| SG |
| ERA |
| CSA |
| ERB |
| CSB |

Display

Shield

Controller Terminal block

| Signal name |
| + |
| − |
| SG |
| FG |

Shield

Controller Terminal block

| Signal name |
| + |
| − |
| SG |
| FG |

Terminal resistance 150Ω ±5% (more than 1/2W)

*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	OFF
3	ON
4	ON

5H)

• 1:1 Connection

• 1:n Connection
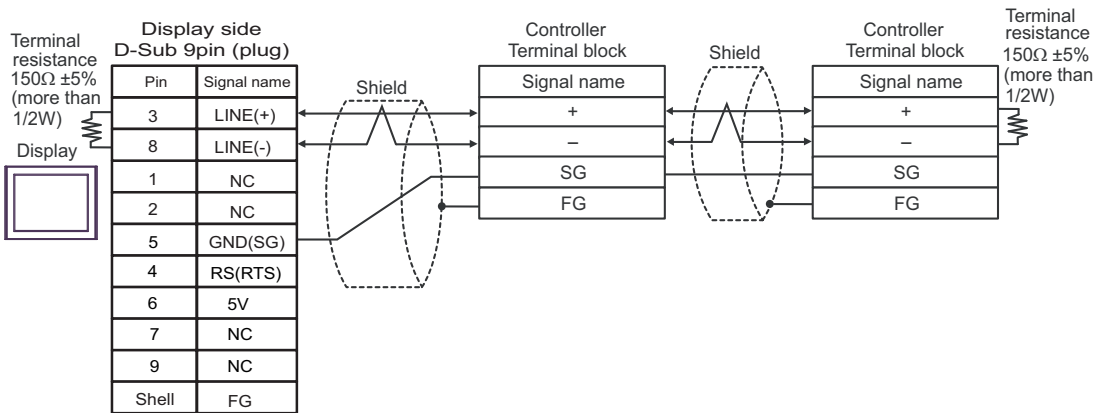
IMPORTANT	• The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE	• In COM on the GP-4107, the SG and FG terminals are isolated.

5I)

• 1:1 Connection

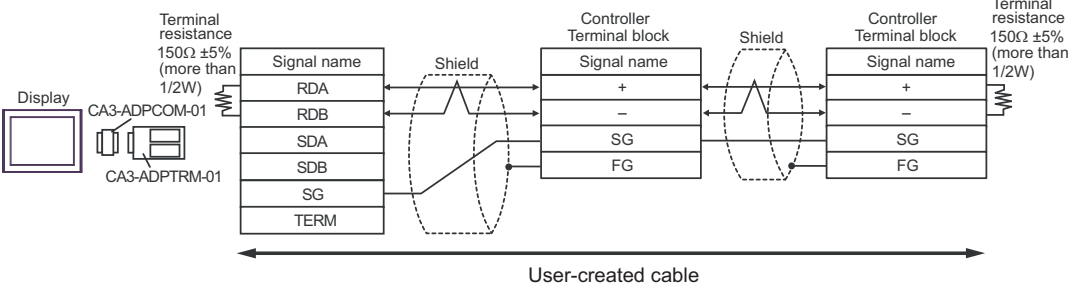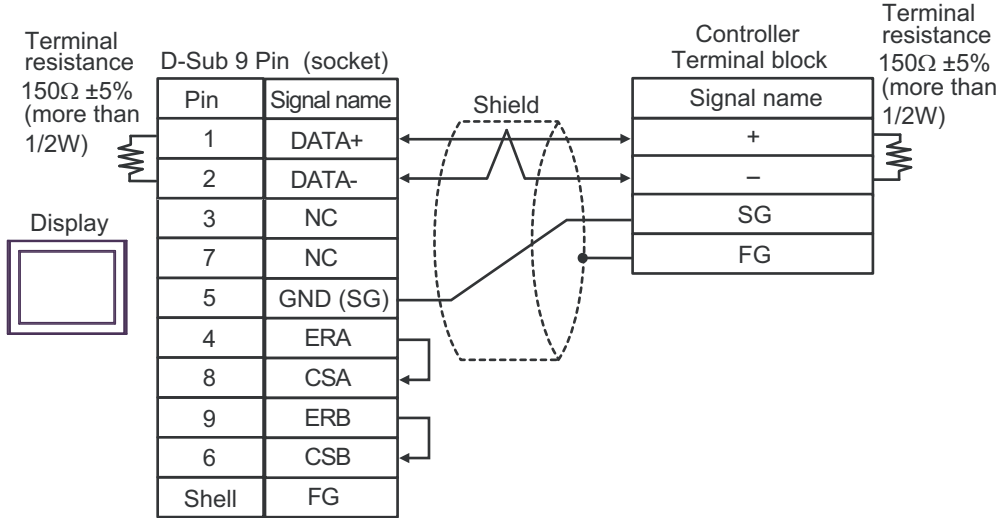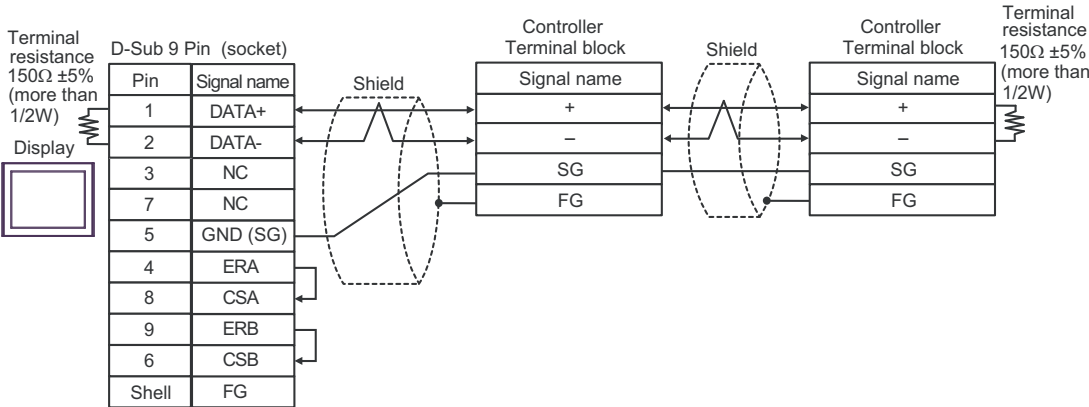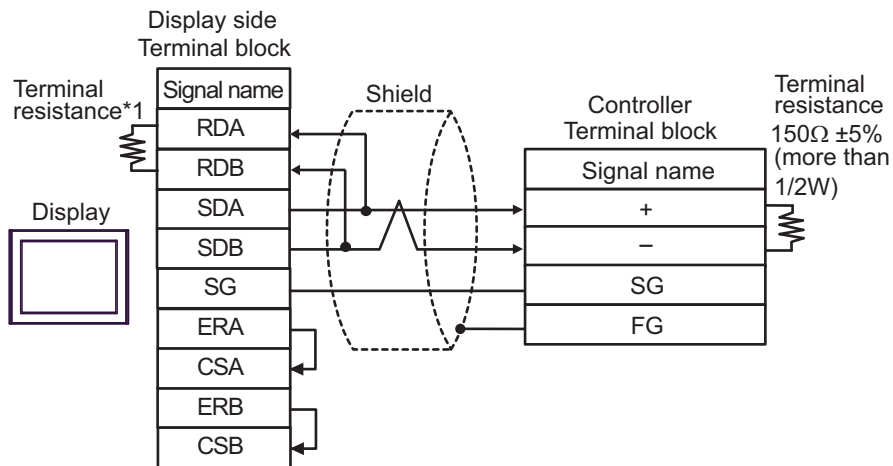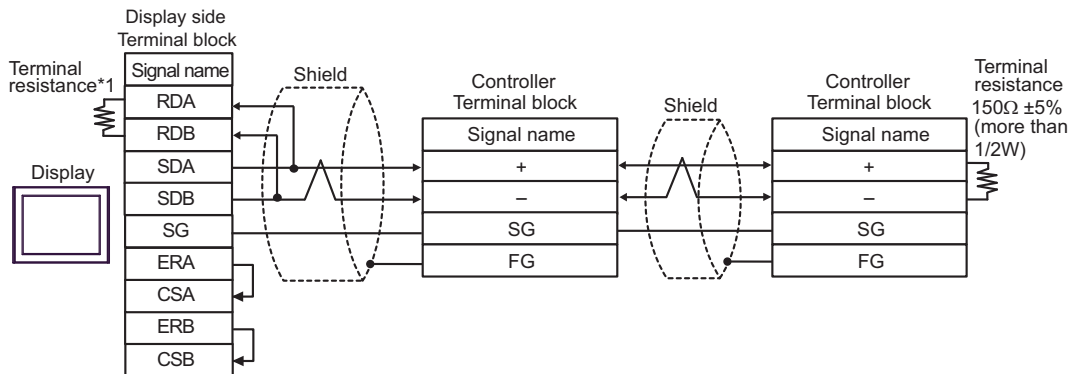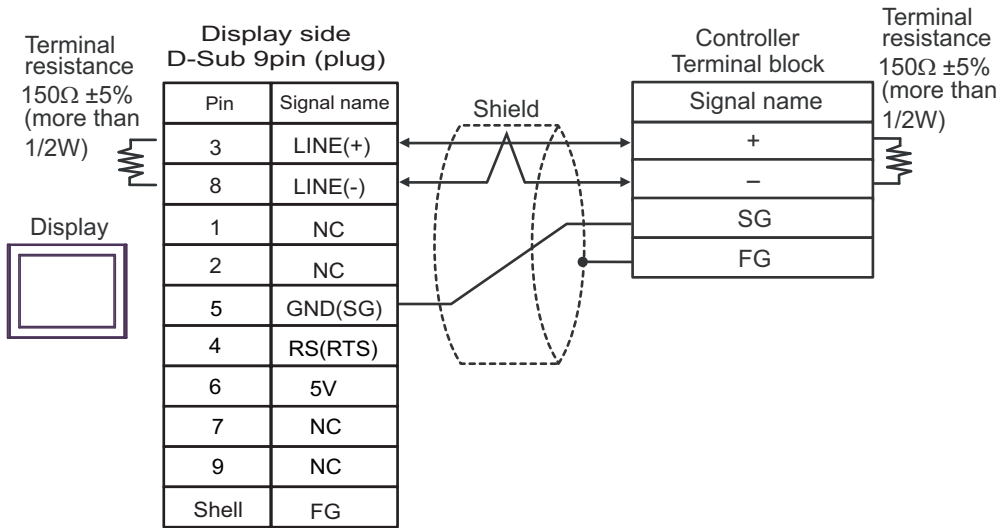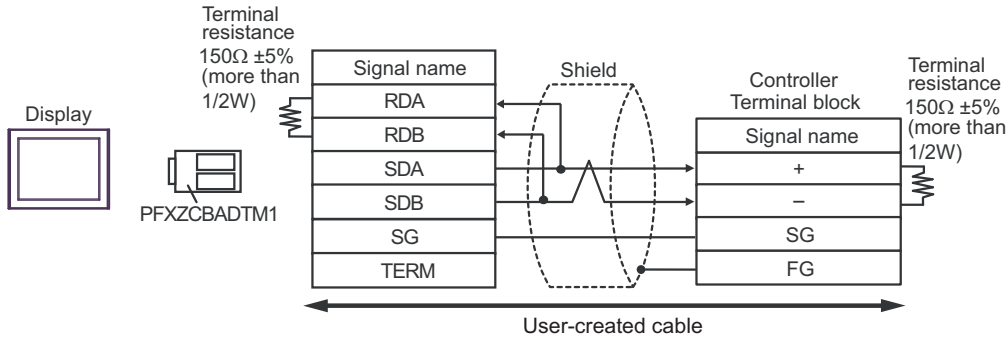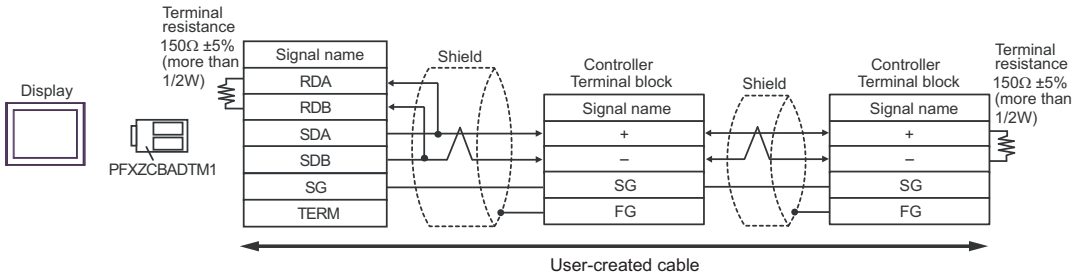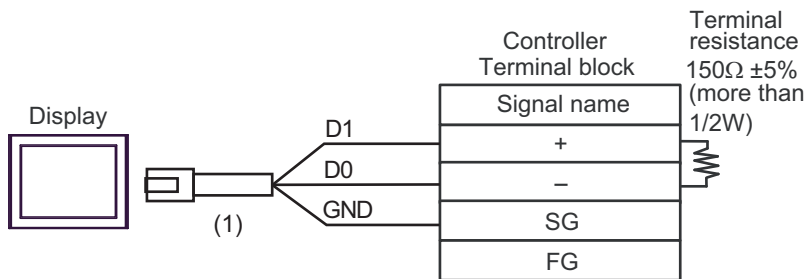• 1:n Connection

5J)

• 1:1 Connection

• 1:n Connection

User-created Cable
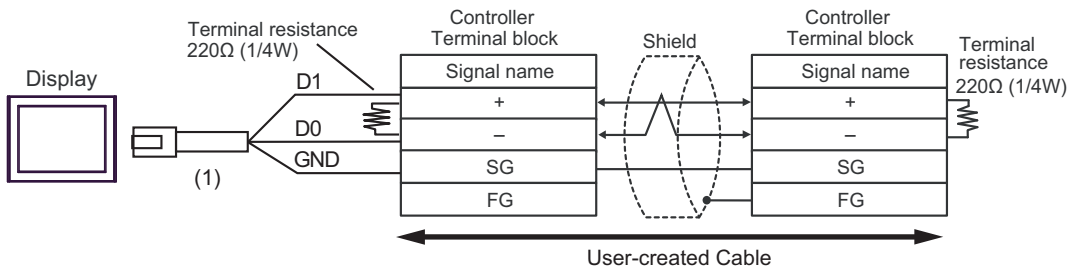
Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

Cable Diagram 6

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	6A	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 or less
	6B	User-created cable	
GP3000[*3] (COM2)	6C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	6D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	6E	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 or less
	6F	User-created cable	
GP-4106 (COM1)	6G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	6H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	6I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	6B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	6J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1   All GP3000 models except AGP-3302B

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

*3   All GP3000 models except the GP-3200 Series and AGP-3302B

*4   Available only with COM ports that support RS-422/485 (2wire).
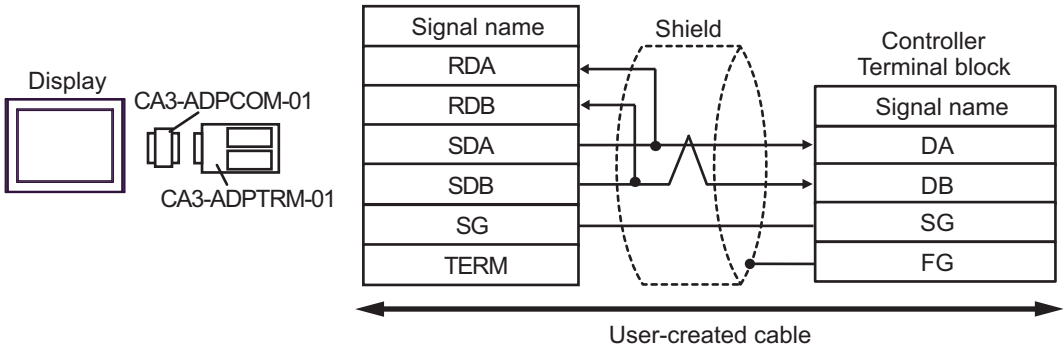■ IPC COM Port (page 9)

*5   Except GP-4203T

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

*7   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 6A.

6A)

- 1:1 Connection

User-created cable
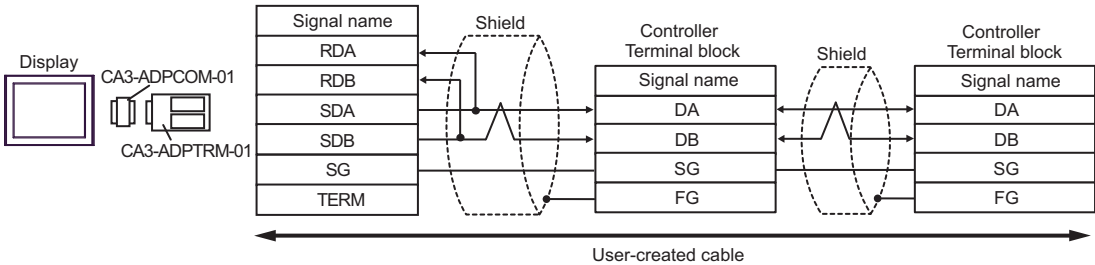
NOTE	• No termination resistor is required.

- 1:n Connection

User-created cable

NOTE	• No termination resistor is required.

6B)

• 1:1 Connection
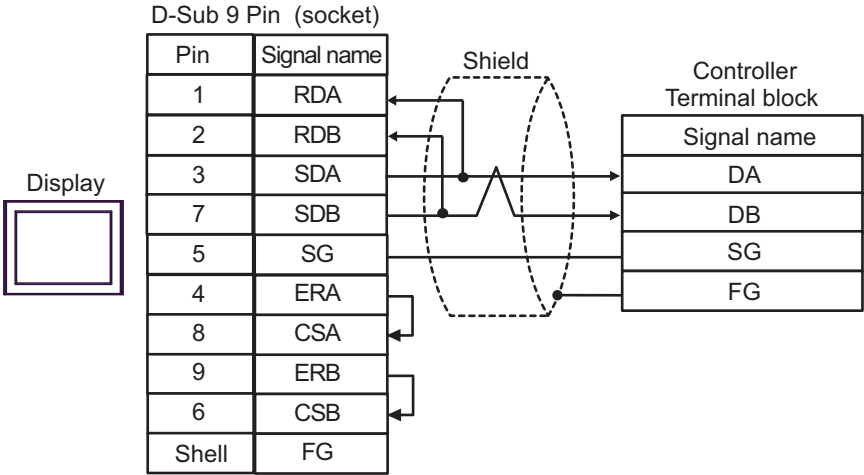
D-Sub 9 Pin (socket)

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Display

NOTE	• No termination resistor is required.

• 1:n Connection

D-Sub 9 Pin (socket)

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Display
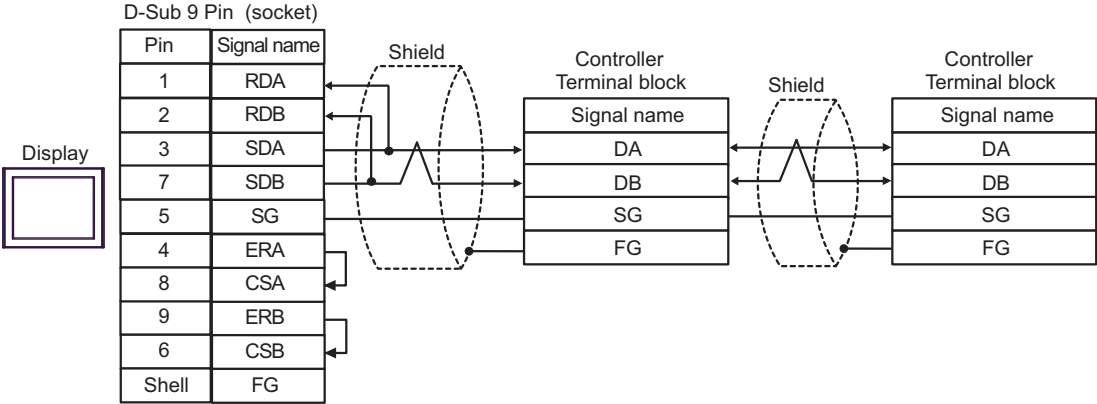
NOTE	• No termination resistor is required.

6C)

• 1:1 Connection
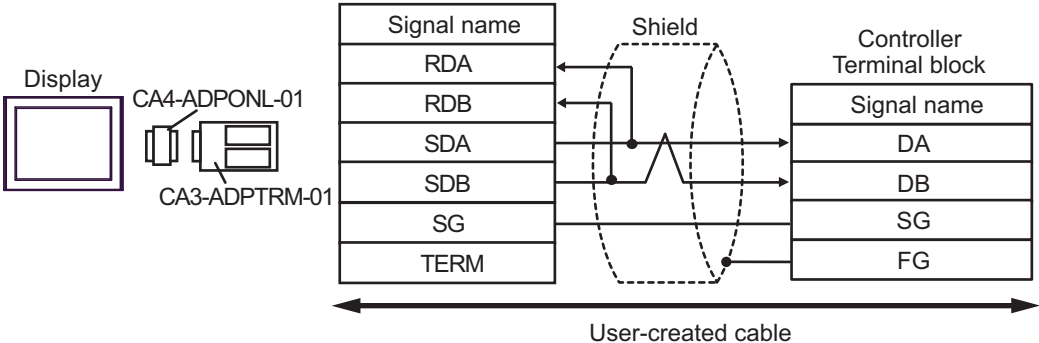
Signal name
RDA
RDB
SDA
SDB
SG
TERM

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

User-created cable

NOTE	• No termination resistor is required.

• 1:n Connection

Signal name
RDA
RDB
SDA
SDB
SG
TERM

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

User-created cable
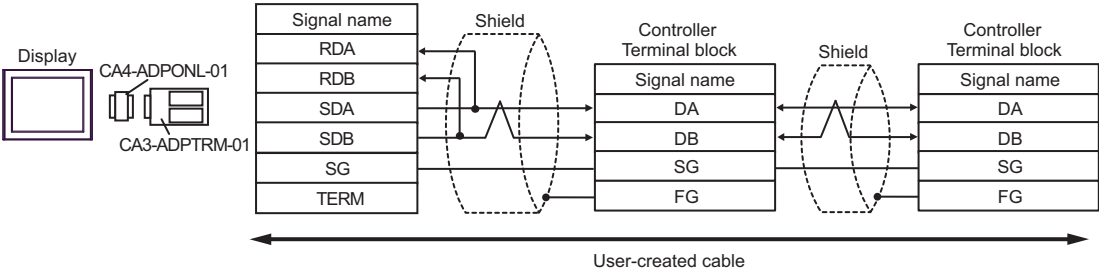
NOTE	• No termination resistor is required.

6D)

• 1:1 Connection
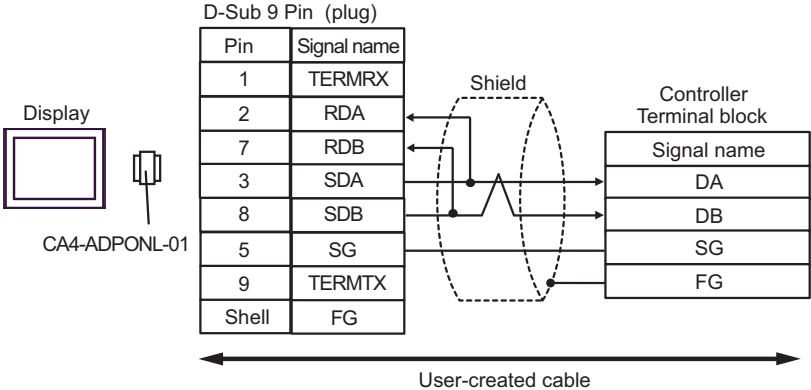
D-Sub 9 Pin (plug)

Pin	Signal name
1	TERMRX
2	RDA
7	RDB
3	SDA
8	SDB
5	SG
9	TERMTX
Shell	FG

Display

CA4-ADPONL-01

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

User-created cable

NOTE   • No termination resistor is required.

• 1:n Connection

D-Sub 9 Pin (plug)

Pin	Signal name
1	TERMRX
2	RDA
7	RDB
3	SDA
8	SDB
5	SG
9	TERMTX
Shell	FG

Display

CA4-ADPONL-01

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

User-created cable
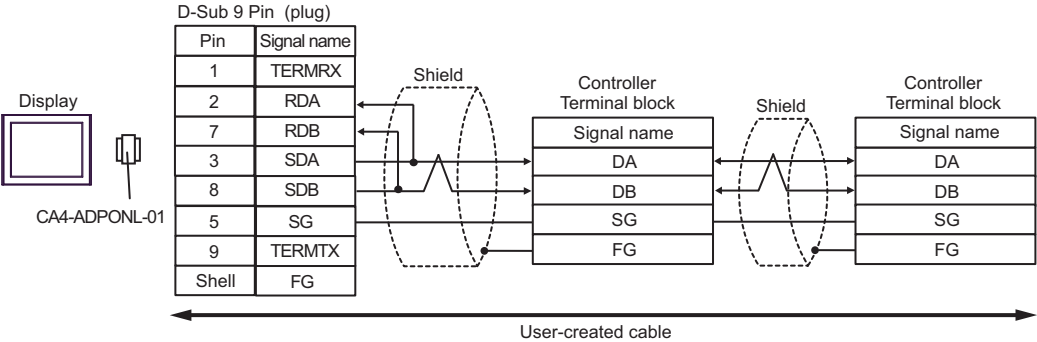
NOTE   • No termination resistor is required.

6E)

• 1:1 Connection
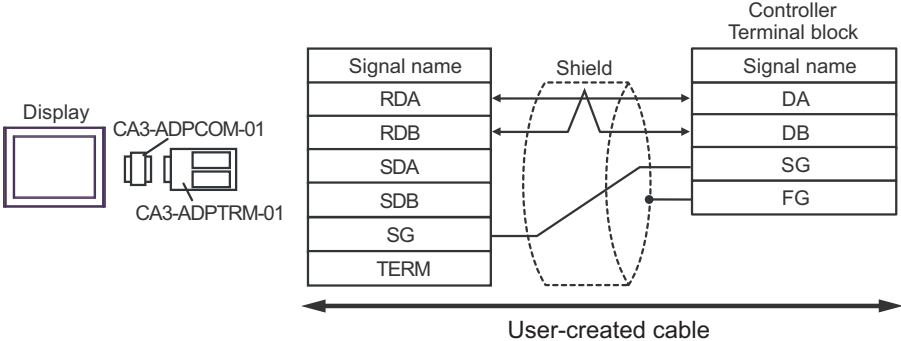
Controller
Terminal block

Signal name	Shield	Signal name
RDA		DA
RDB		DB
SDA		SG
SDB		FG
SG		
TERM		

Display
CA3-ADPCOM-01
CA3-ADPTRM-01

User-created cable

NOTE • No termination resistor is required.

• 1:n Connection

Controller
Terminal block

Controller
Terminal block

Signal name	Shield	Signal name	Shield	Signal name
RDA		DA		DA
RDB		DB		DB
SDA		SG		SG
SDB		FG		FG
SG				
TERM				

Display
CA3-ADPCOM-01
CA3-ADPTRM-01

User-created cable
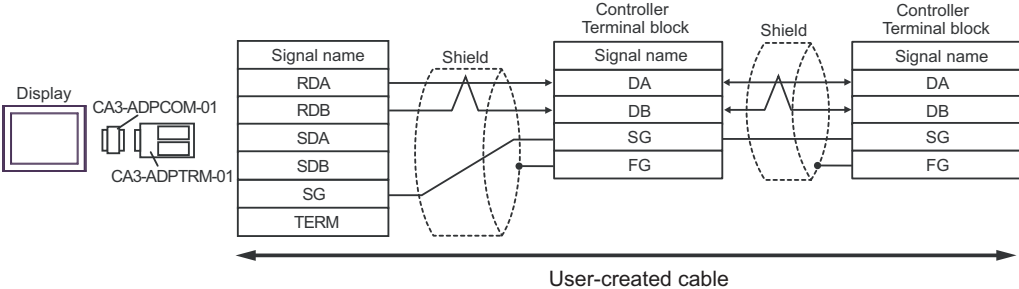
NOTE • No termination resistor is required.

6F)

• 1:1 Connection
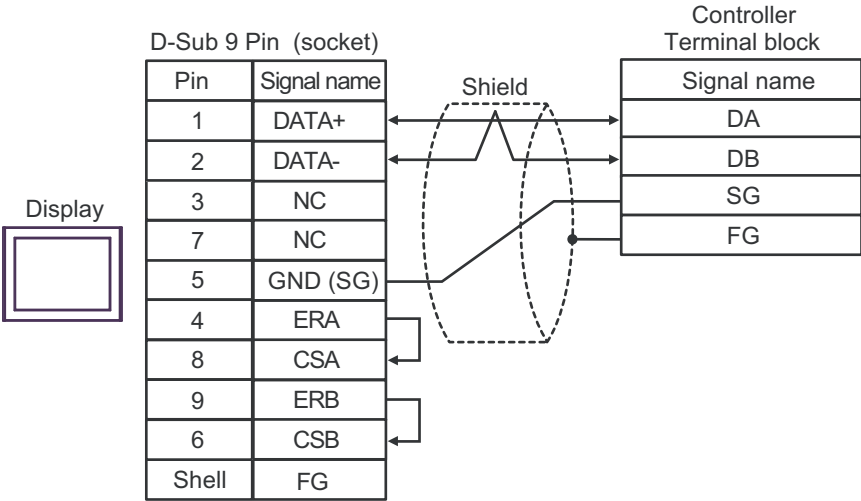
Pin	Signal name
1	DATA+
2	DATA-
3	NC
7	NC
5	GND (SG)
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG
FG

D-Sub 9 Pin (socket)

Controller
Terminal block

Shield

Display

NOTE • No termination resistor is required.

• 1:n Connection

Pin	Signal name
1	DATA+
2	DATA-
3	NC
7	NC
5	GND (SG)
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG
FG

Signal name
DA
DB
SG
FG

D-Sub 9 Pin (socket)

Controller
Terminal block

Controller
Terminal block

Shield

Display
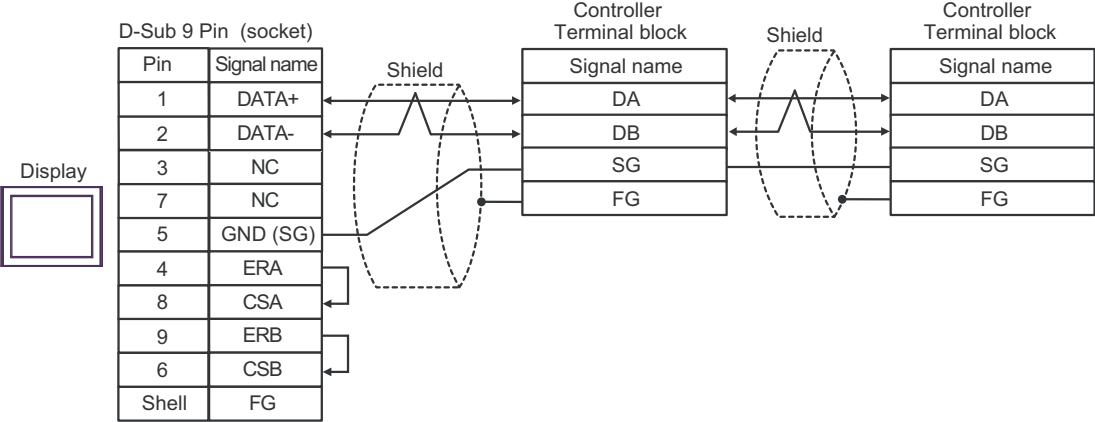
NOTE • No termination resistor is required.

6G)

• 1:1 Connection
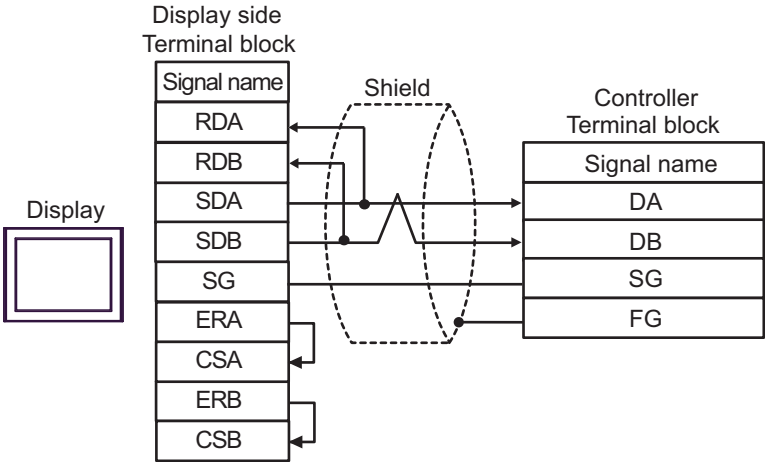
Display side
Terminal block

Signal name
RDA
RDB
SDA
SDB
SG
ERA
CSA
ERB
CSB

Display

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

NOTE • No termination resistor is required.

• 1:n Connection

Display side
Terminal block

Signal name
RDA
RDB
SDA
SDB
SG
ERA
CSA
ERB
CSB

Display

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG
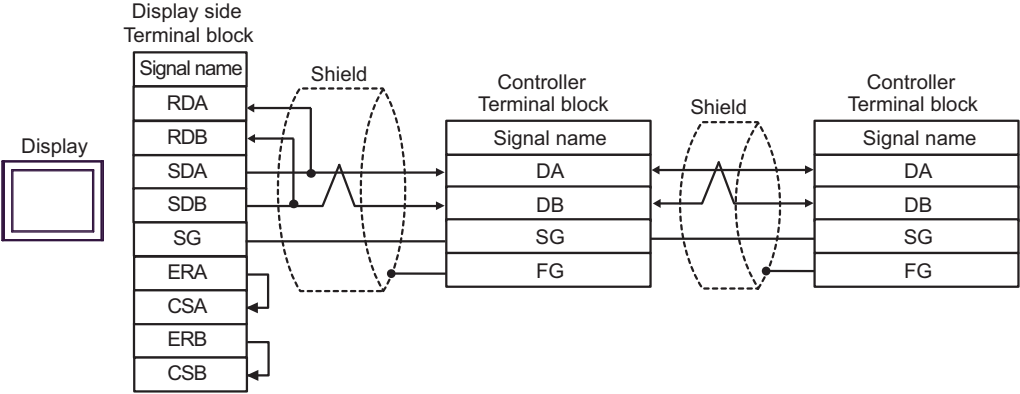
NOTE • No termination resistor is required.

6H)

• 1:1 Connection
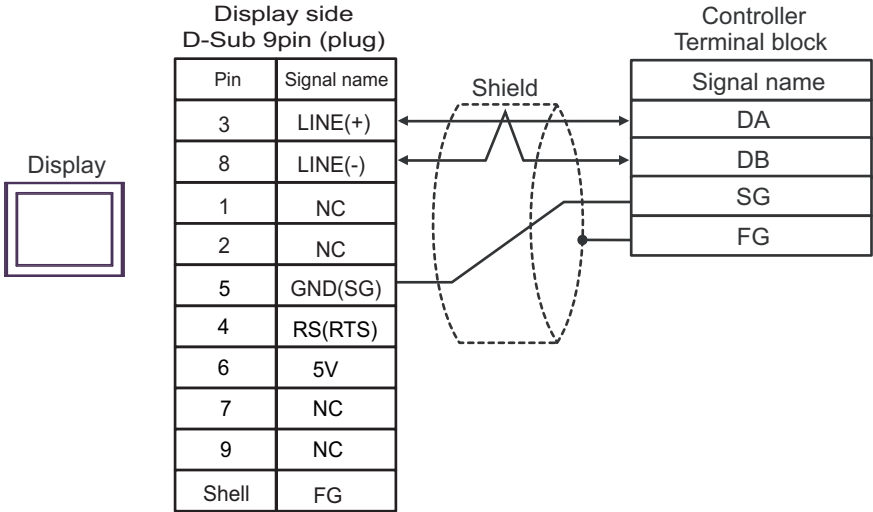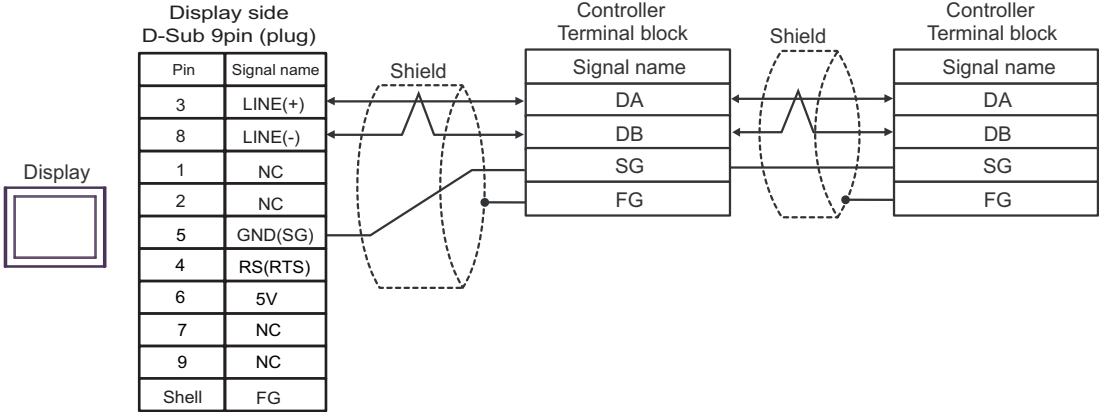
Display side D-Sub 9pin (plug)		Controller Terminal block
Pin	Signal name	Signal name
3	LINE(+)	DA
8	LINE(-)	DB
1	NC	SG
2	NC	FG
5	GND(SG)	
4	RS(RTS)	
6	5V	
7	NC	
9	NC	
Shell	FG	

Shield

Display

NOTE • No termination resistor is required.

• 1:n Connection

Display side D-Sub 9pin (plug)		Controller Terminal block	Controller Terminal block
Pin	Signal name	Signal name	Signal name
3	LINE(+)	DA	DA
8	LINE(-)	DB	DB
1	NC	SG	SG
2	NC	FG	FG
5	GND(SG)		
4	RS(RTS)		
6	5V		
7	NC		
9	NC		
Shell	FG		

Shield   Shield

Display

IMPORTANT • The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE • No termination resistor is required.
• In COM on the GP-4107, the SG and FG terminals are isolated.

6I)

- 1:1 Connection
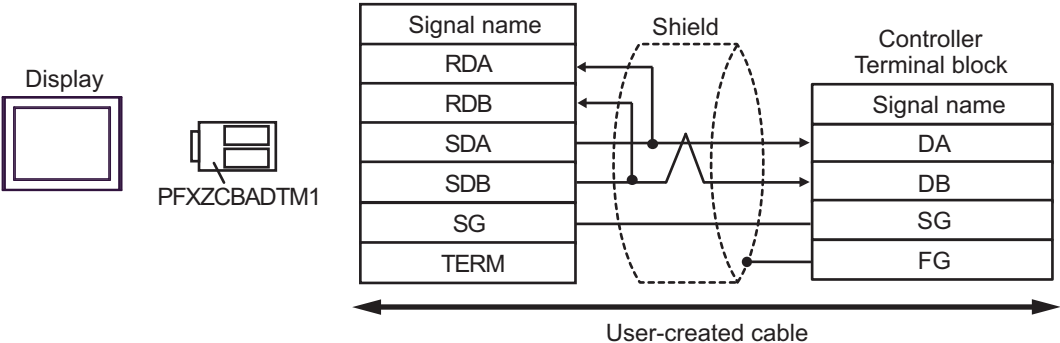
Display

PFXZCBADTM1

Signal name
RDA
RDB
SDA
SDB
SG
TERM

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

User-created cable

NOTE

- No termination resistor is required.

- 1:n Connection

Display

PFXZCBADTM1

Signal name
RDA
RDB
SDA
SDB
SG
TERM

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

Shield

Controller
Terminal block

Signal name
DA
DB
SG
FG

User-created cable
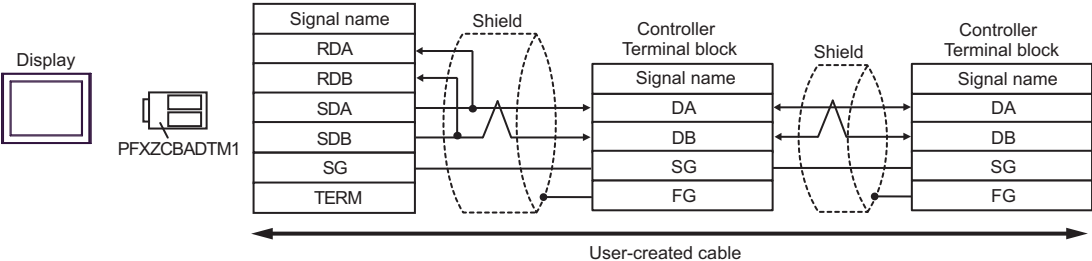
NOTE

- No termination resistor is required.

6J)

• 1:1 Connection
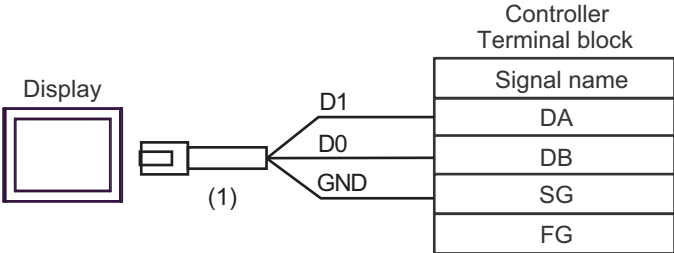
| NOTE | • No termination resistor is required. |
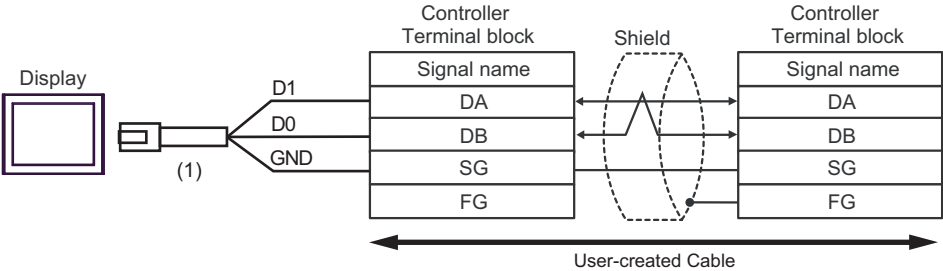
• 1:n Connection

| NOTE | • No termination resistor is required. |

Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

Cable Diagram 7

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1) IPC[*3]	7A	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 or less
	7B	User-created cable	
GP3000[*4] (COM2)	7C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	7D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1)	7E	User-created cable	Cable length: 500m or less
GP4000[*5] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	7F	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*6] + User-created cable	Cable length: 500m or less
	7B	User-created cable	

*1　All GP3000 models except AGP-3302B

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

*3　Available only with COM ports that support RS-422/485 (4wire).
　　☞ ■ IPC COM Port (page 9)

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

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

*6　When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 7A.

7A

• 1:1 Connection
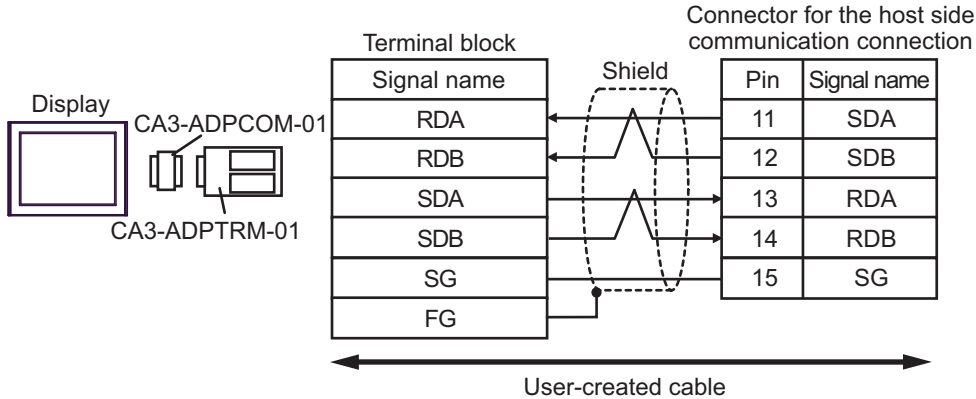
• 1:n Connection

7B)

• 1:1 Connection

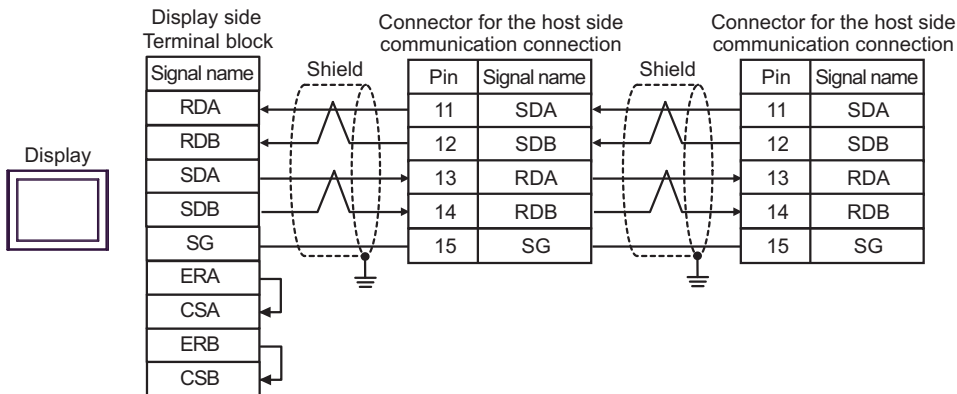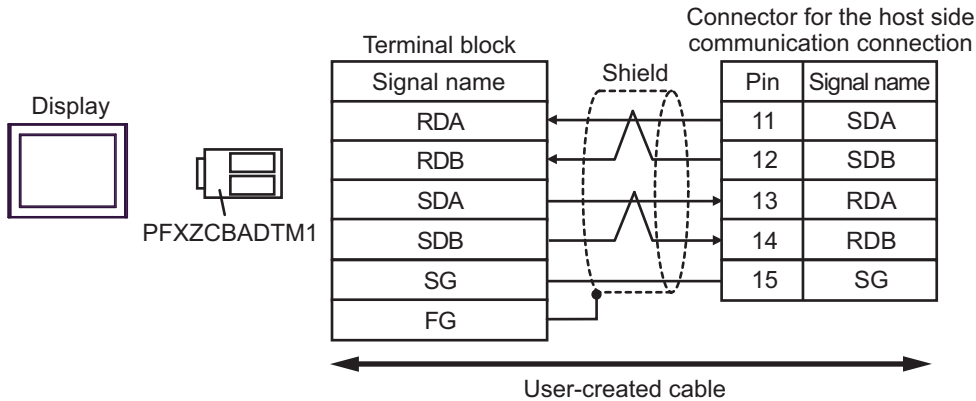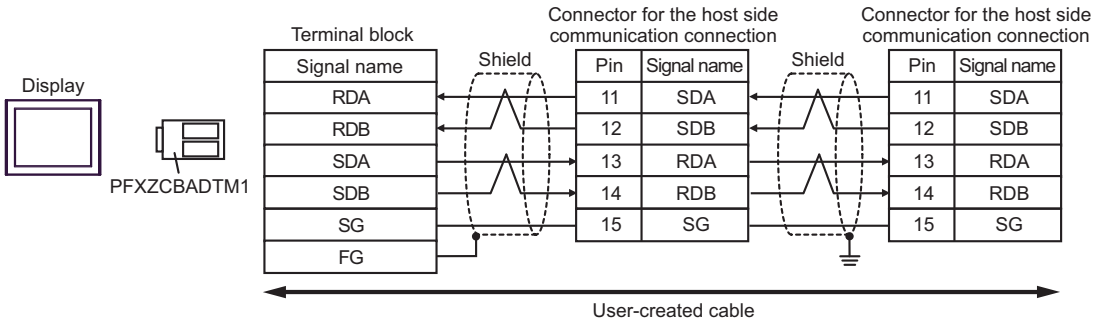Connector for the host side
communication connection

D-Sub 9 pin (socket)				Pin	Signal name
Pin	Signal name		Shield	11	SDA
1	RDA			11	SDA
2	RDB			12	SDB
3	SDA			13	RDA
7	SDB			14	RDB
5	SG			15	SG
4	ERA				
8	CSA				
9	ERB				
6	CSB				
Shell	FG				

• 1:n Connection

D-Sub 9 pin (socket)		Connector for the host side communication connection		Connector for the host side communication connection	
Pin	Signal name	Pin	Signal name	Pin	Signal name
1	RDA	11	SDA	11	SDA
2	RDB	12	SDB	12	SDB
3	SDA	13	RDA	13	RDA
7	SDB	14	RDB	14	RDB
5	SG	15	SG	15	SG
4	ERA				
8	CSA				
9	ERB				
6	CSB				
Shell	FG				

7C)

- 1:1 Connection

Terminal block

Connector for the host side
communication connection

Signal name	Shield	Pin	Signal name
RDA		11	SDA
RDB		12	SDB
SDA		13	RDA
SDB		14	RDB
SG		15	SG
FG			

Display
CA4-ADPONL-01
CA3-ADPTRM-01

User-created cable

- 1:n Connection

Terminal block

Connector for the host side
communication connection

Connector for the host side
communication connection

Signal name	Shield	Pin	Signal name	Shield	Pin	Signal name
RDA		11	SDA		11	SDA
RDB		12	SDB		12	SDB
SDA		13	RDA		13	RDA
SDB		14	RDB		14	RDB
SG		15	SG		15	SG
FG						

Display
CA4-ADPONL-01
CA3-ADPTRM-01

User-created cable

7D)

• 1:1 Connection

D-Sub 9 pin (plug)

Display

CA4-ADPONL-01

Pin	Signal name
1	TERMRX
2	RDA
7	RDB
3	SDA
8	SDB
5	SG
9	TERMTX
Shell	FG

Shield

Connector for the host side
communication connection

Pin	Signal name
11	SDA
12	SDB
13	RDA
14	RDB
15	SG

User-created cable

• 1:n Connection

D-Sub 9 pin (plug)

Display

CA4-ADPONL-01

Pin	Signal name
1	TERMRX
2	RDA
7	RDB
3	SDA
8	SDB
5	SG
9	TERMTX
Shell	FG

Shield

Connector for the host side
communication connection

Pin	Signal name
11	SDA
12	SDB
13	RDA
14	RDB
15	SG

Shield

Connector for the host side
communication connection

Pin	Signal name
11	SDA
12	SDB
13	RDA
14	RDB
15	SG

User-created cable

7E)

• 1:1 Connection

• 1:n Connection

7F

• 1:1 Connection

Connector for the host side
communication connection

Terminal block		Shield		Pin	Signal name
Signal name					
RDA				11	SDA
RDB				12	SDB
SDA				13	RDA
SDB				14	RDB
SG				15	SG
FG					

Display

PFXZCBADTM1

User-created cable

• 1:n Connection

Terminal block	Shield	Connector for the host side communication connection		Shield	Connector for the host side communication connection	
Signal name		Pin	Signal name		Pin	Signal name
RDA		11	SDA		11	SDA
RDB		12	SDB		12	SDB
SDA		13	RDA		13	RDA
SDB		14	RDB		14	RDB
SG		15	SG		15	SG
FG						

Display

PFXZCBADTM1

User-created cable

Cable Diagram 8

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	8A	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 or less
	8B	User-created cable	
GP3000[*3] (COM2)	8C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	8D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	8E	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 or less
	8F	User-created cable	
GP-4106 (COM1)	8G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	8H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	8I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	8B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	8J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1   All GP3000 models except AGP-3302B

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

*3   All GP3000 models except the GP-3200 Series and AGP-3302B

*4   Available only with COM ports that support RS-422/485 (2wire).
      ☞ ■ IPC COM Port (page 9)

*5   Except GP-4203T

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

*7   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 8A.

8A)

- 1:1 Connection
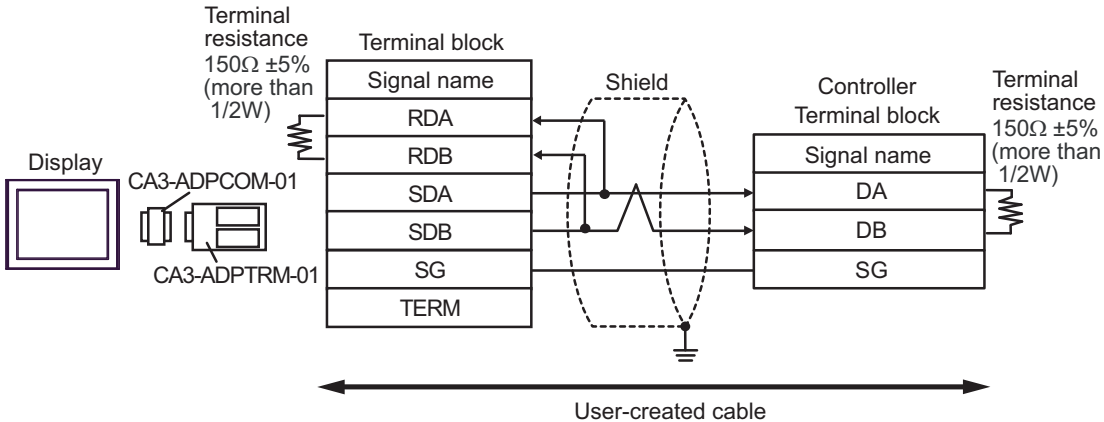
- 1:n Connection
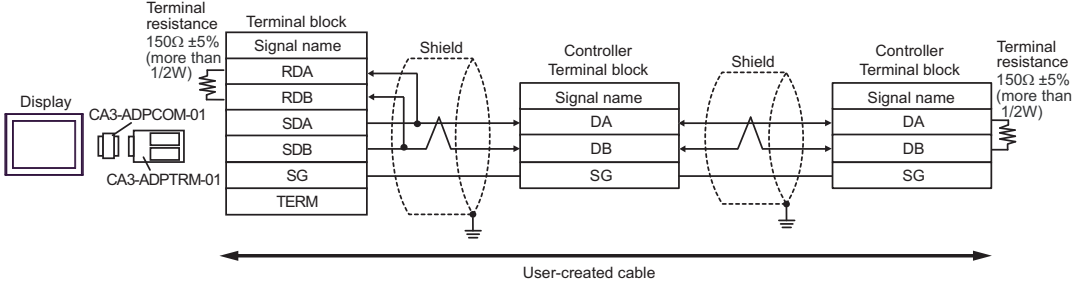
8B

- 1:1 Connection
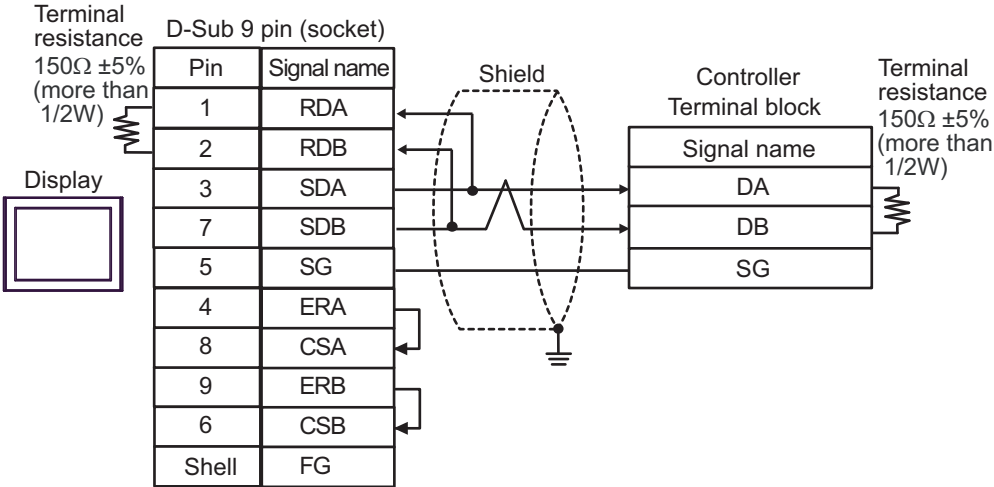
- 1:n Connection
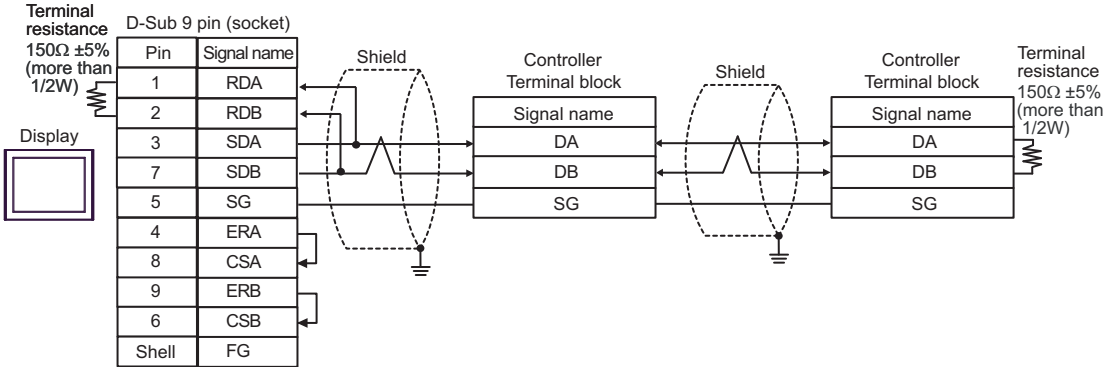
8C)

- 1:1 Connection
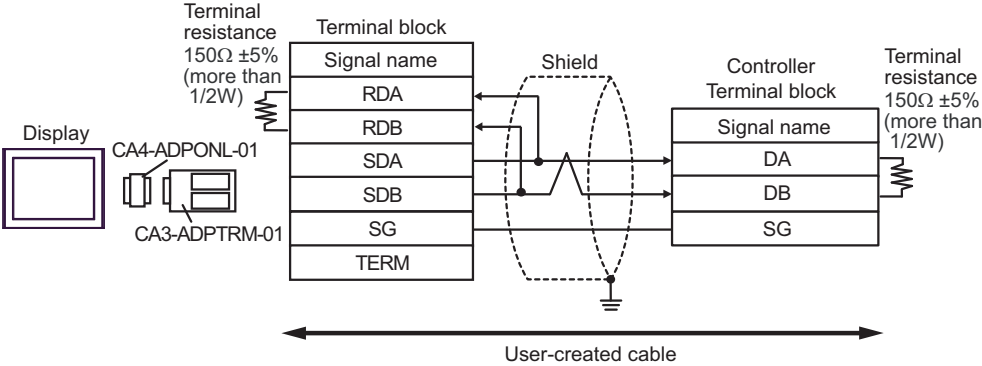
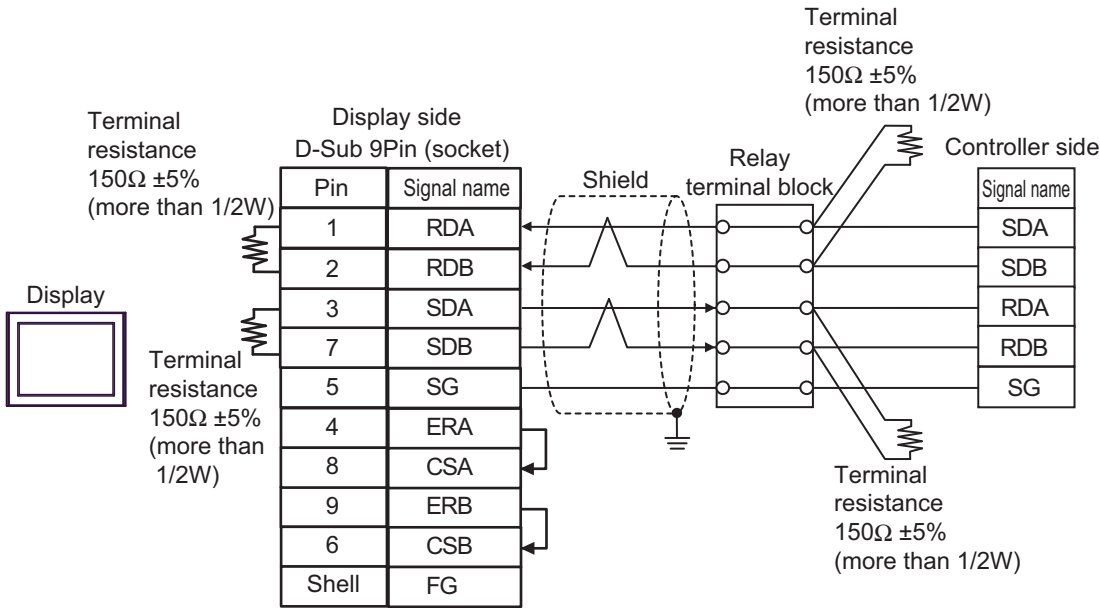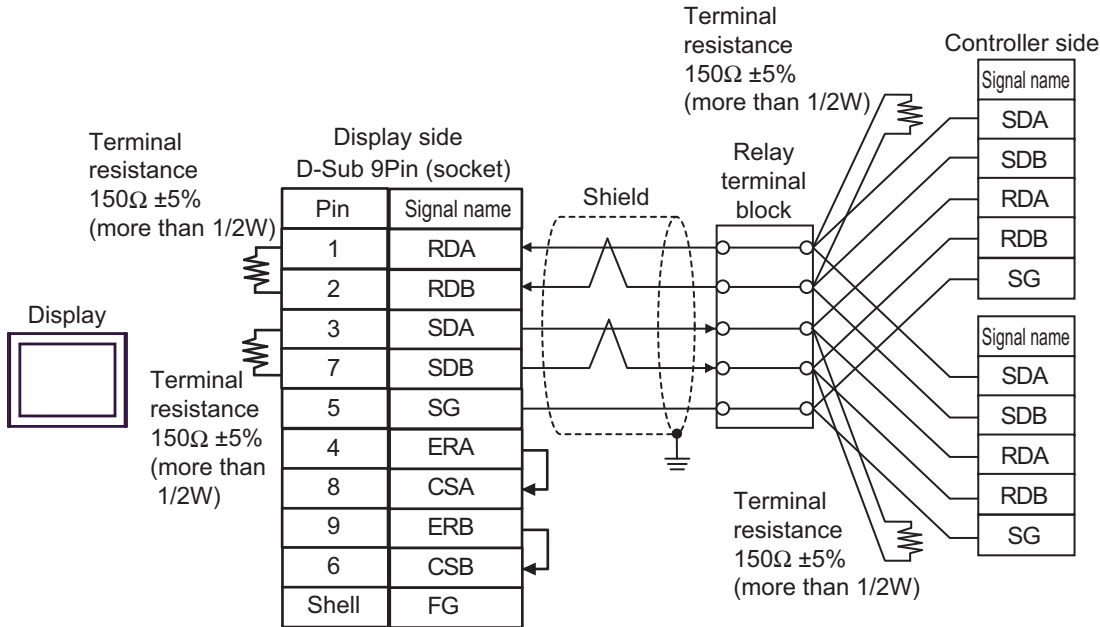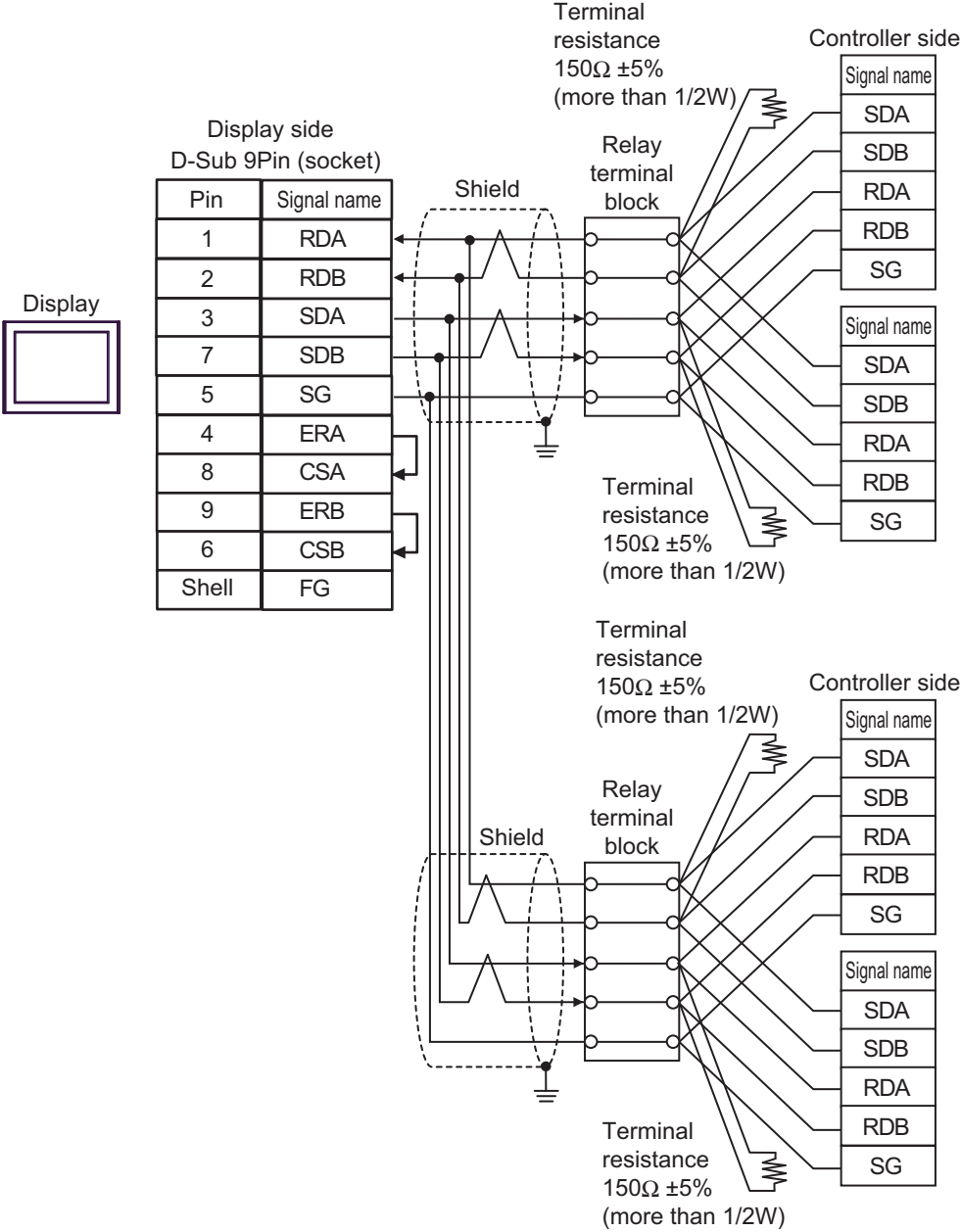- 1:n Connection

8D)

- 1:1 Connection

User-created cable

- 1:n Connection

User-created cable
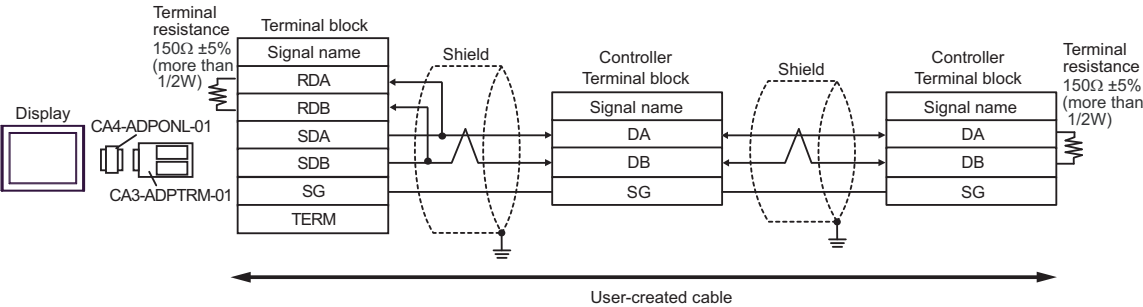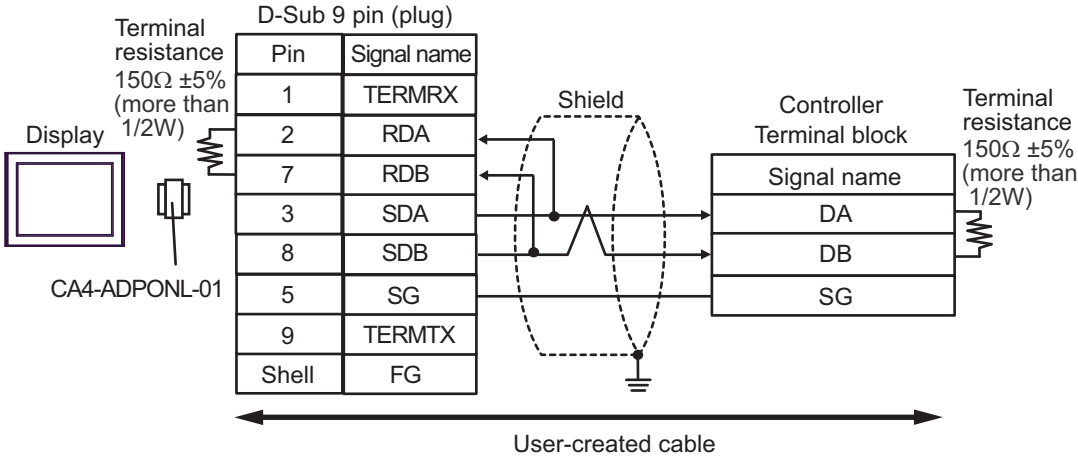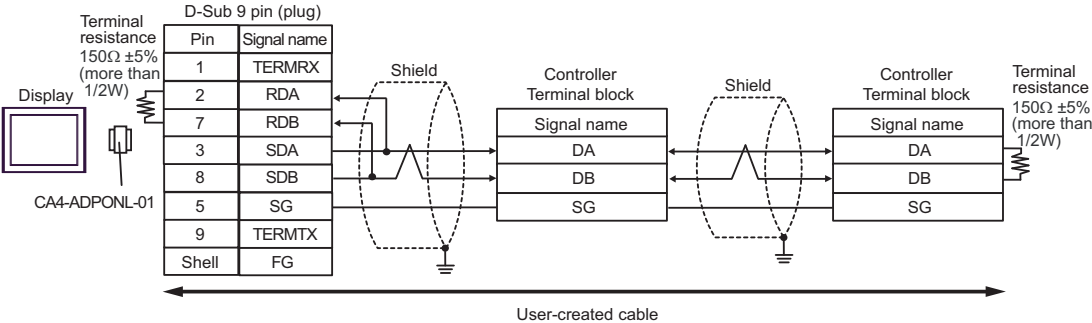
8E)
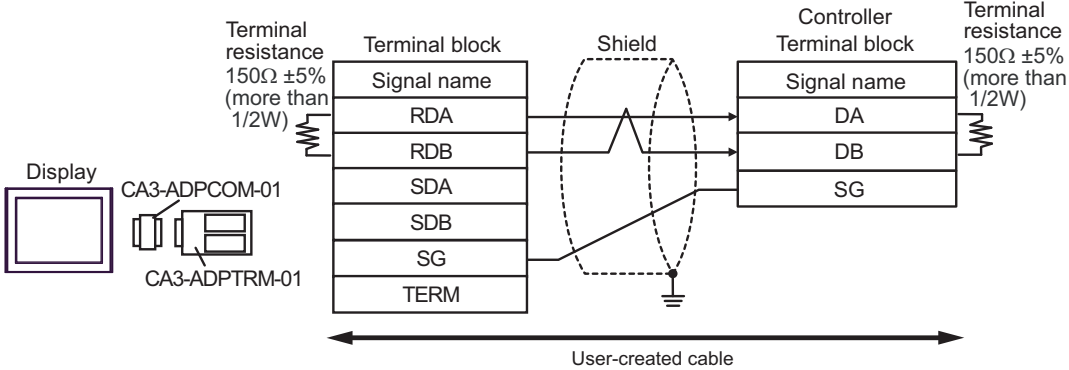
• 1:1 Connection
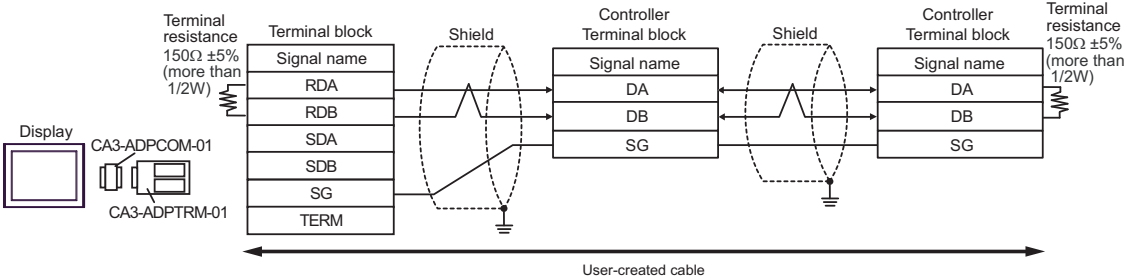
• 1:n Connection

8F)

• 1:1 Connection
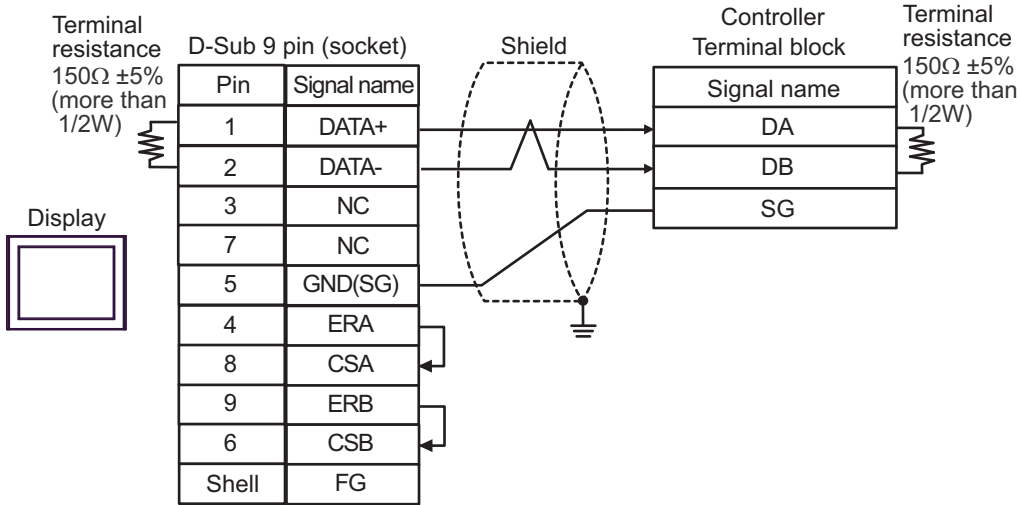
• 1:n Connection
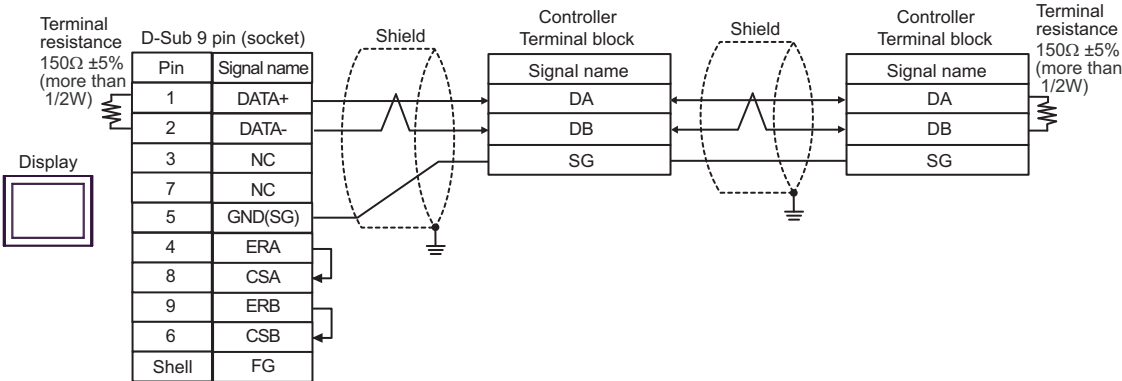
8G)

• 1:1 Connection
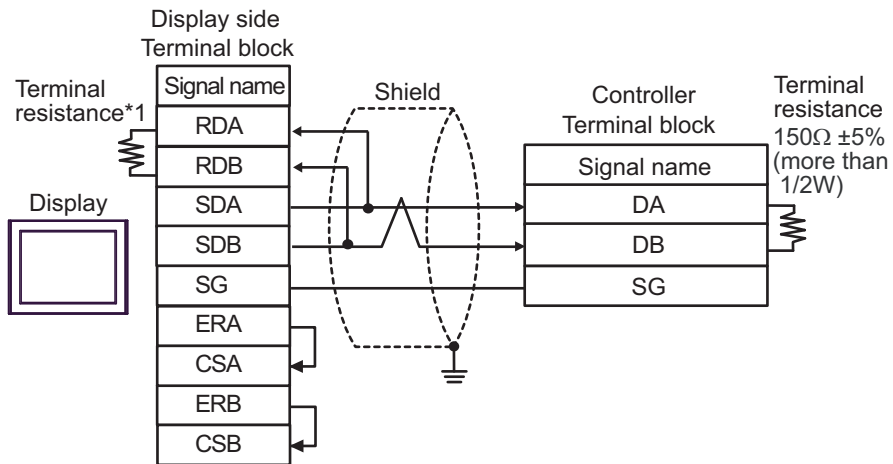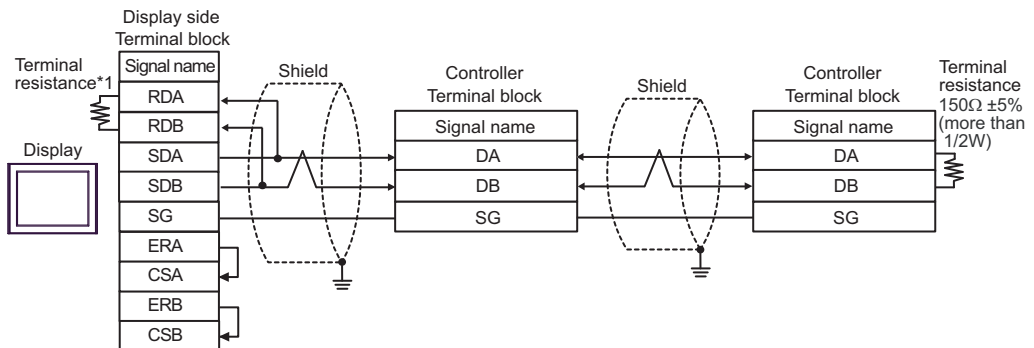
Display side
Terminal block

• 1:n Connection

Display side
Terminal block

*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	OFF
3	ON
4	ON

8H)

• 1:1 Connection
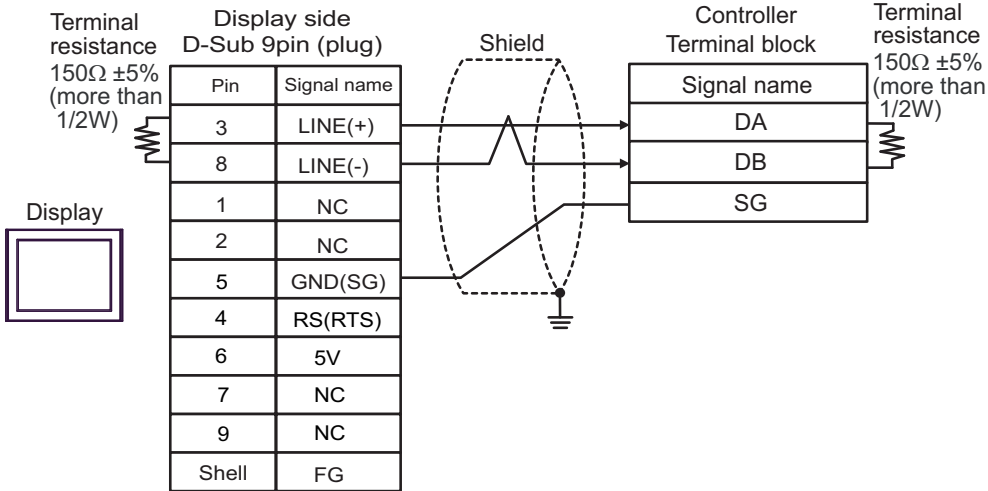
• 1:n Connection
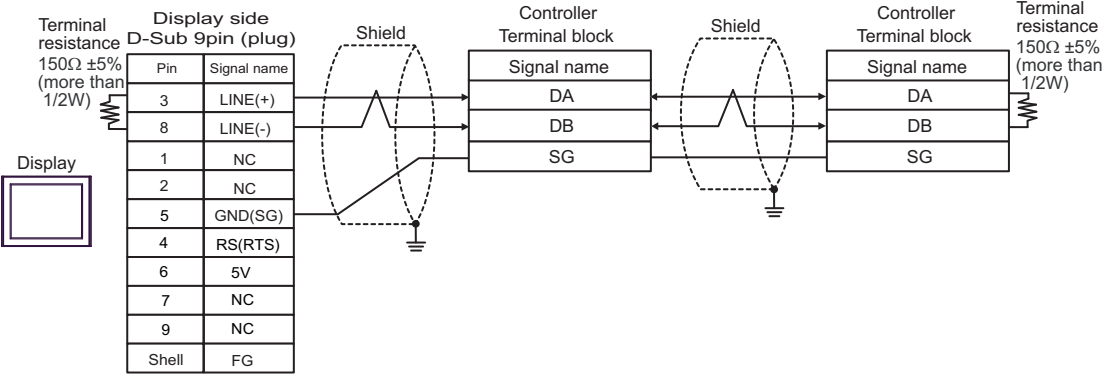
IMPORTANT	• The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE	• In COM on the GP-4107, the SG and FG terminals are isolated.

8I)

• 1:1 Connection
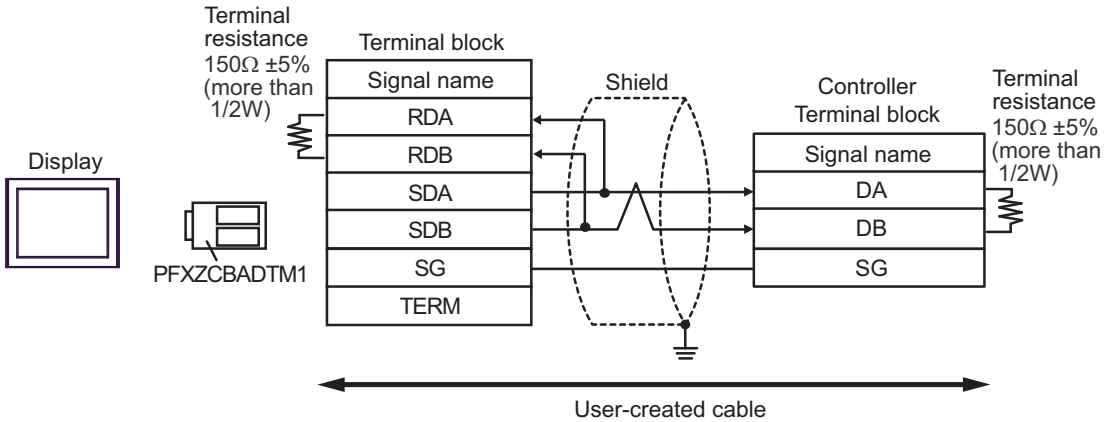
• 1:n Connection
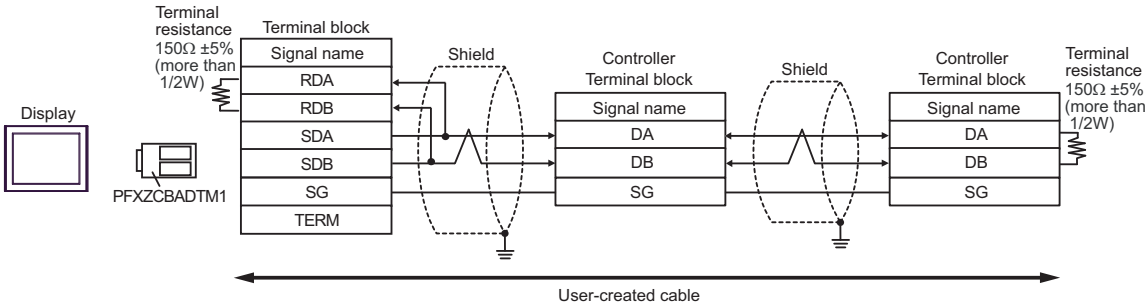
8J)

- 1:1 Connection
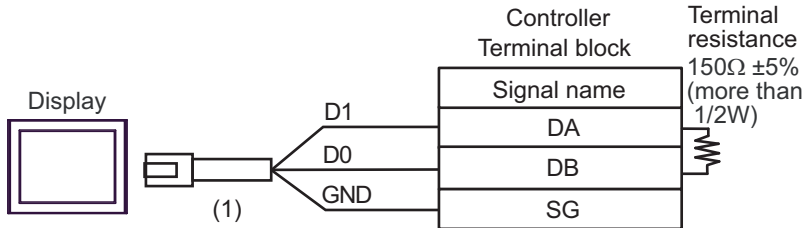
- 1:n Connection

User-created Cable
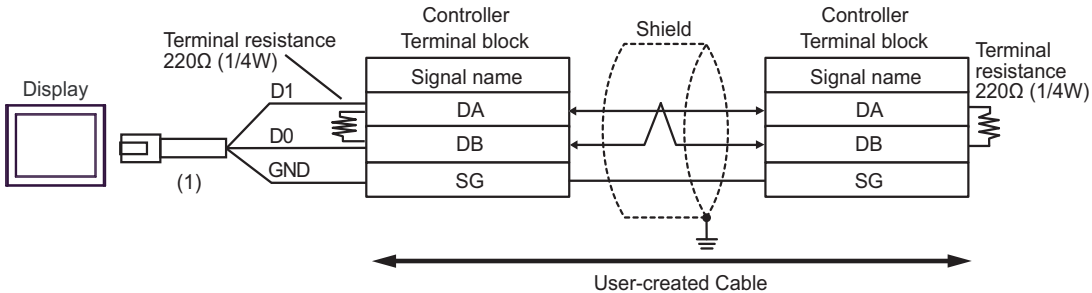
Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

Cable Diagram 9

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1) IPC[*3]	9A	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 or less
	9B	User-created cable	
GP3000[*4] (COM2)	9C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	9D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
GP-4106 (COM1)	9E	User-created cable	Cable length: 500m or less
GP4000[*5] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	9F	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*6] + User-created cable	Cable length: 500m or less
	9B	User-created cable	

*1   All GP3000 models except AGP-3302B

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

*3   Available only with COM ports that support RS-422/485 (4wire).
      ☞ ■ IPC COM Port (page 9)

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

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

*6   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 9A.

9A)

• 1:1 Connection

• 1:n Connection (Display is end of network)

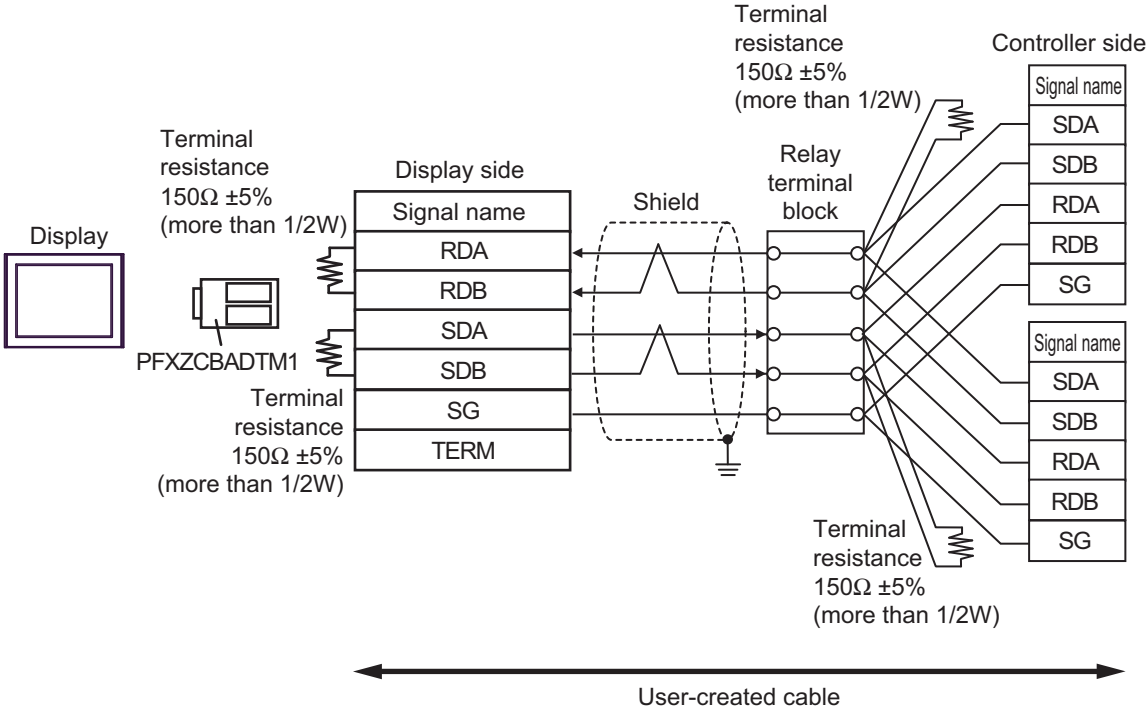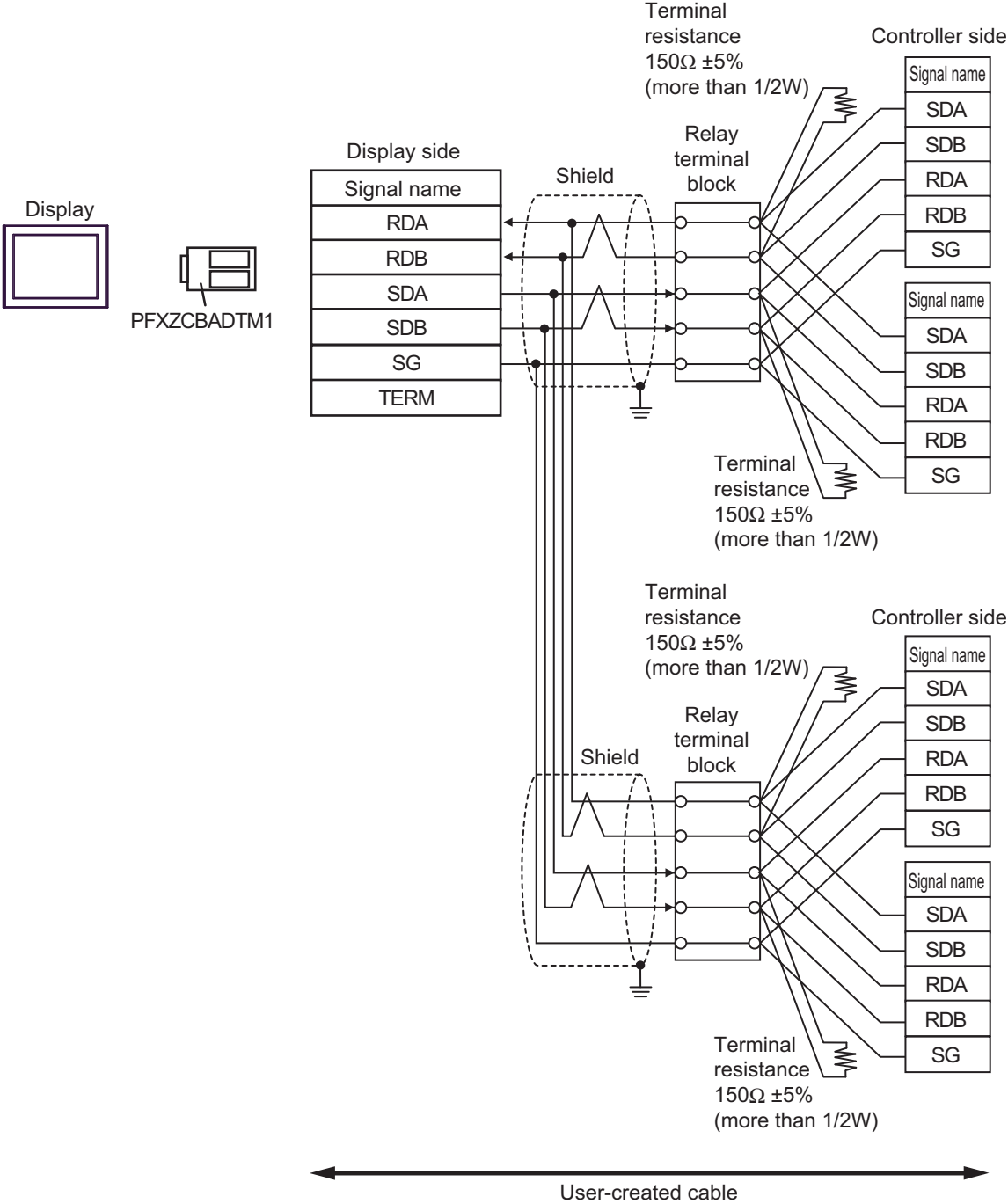• 1:n Connection (Display is middle of network)

User-created cable

9B)

• 1:1 Connection

• 1:n Connection (Display is end of network)

• 1:n Connection (Display is middle of network)

9C)

- 1:1 Connection

User-created cable

- 1:n Connection (Display is end of network)

User-created cable

- 1:n Connection (Display is middle of network)

User-created cable

9D)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

9E)

• 1:1 Connection
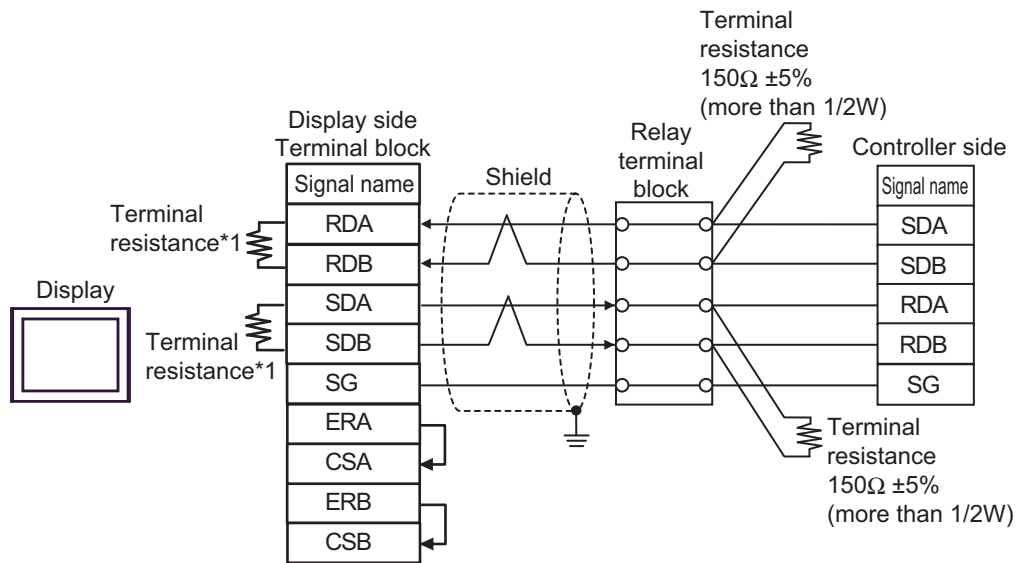
• 1:n Connection (Display is end of network)
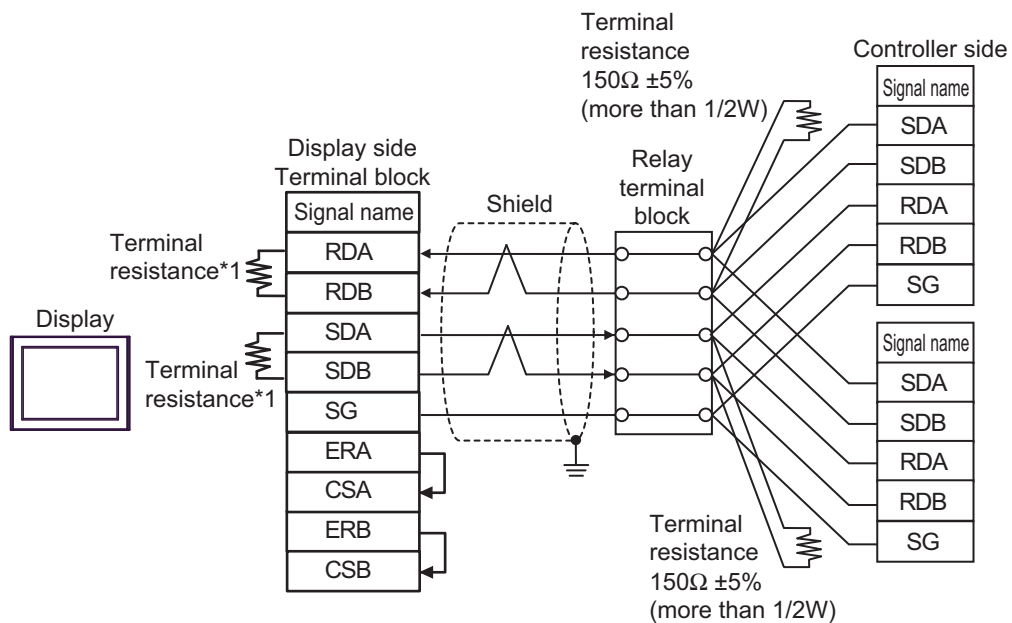
*1   The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

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

• 1:n Connection (Display is middle of network)
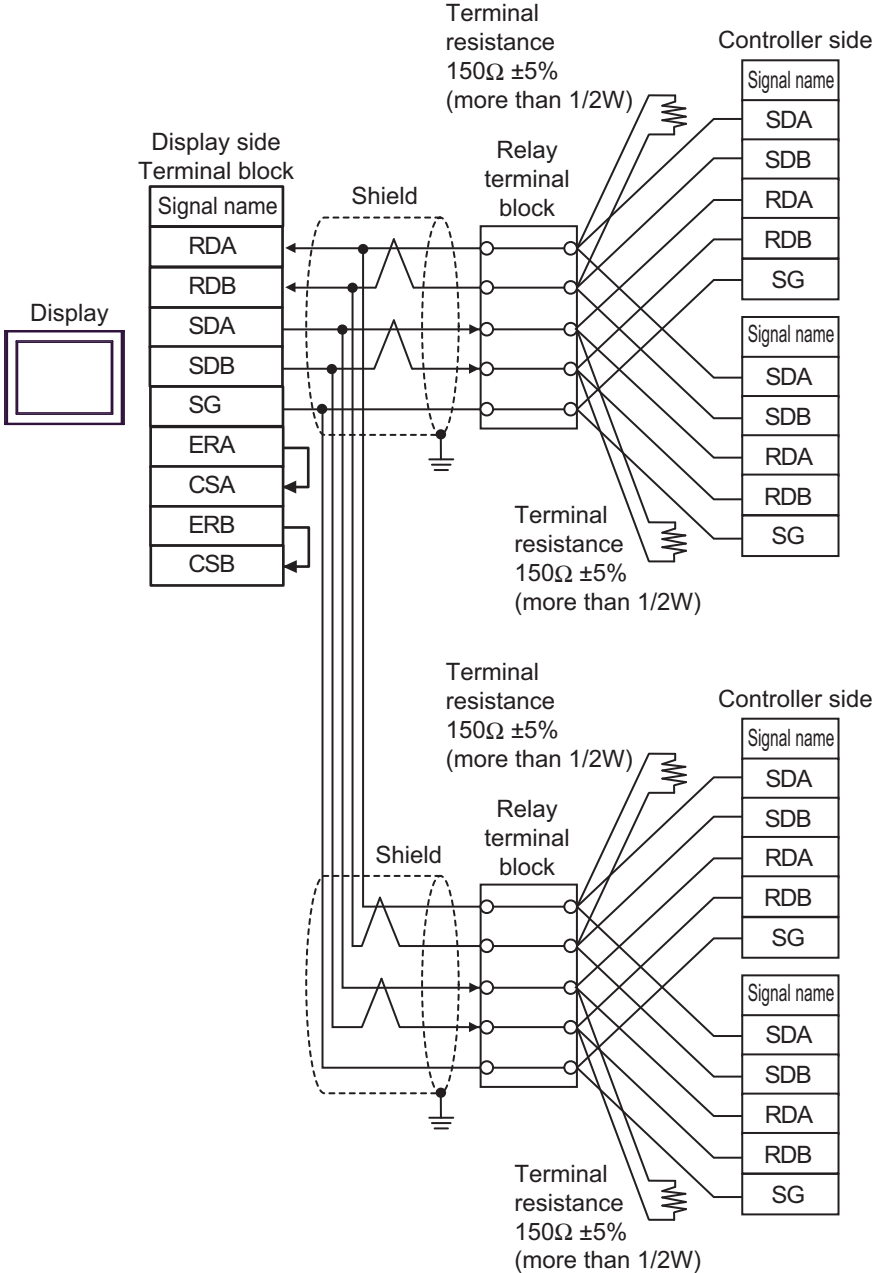
| IMPORTANT | • Set the DIP Switch 1-4 on the rear of the Display to OFF. |

9F)

- 1:1 Connection
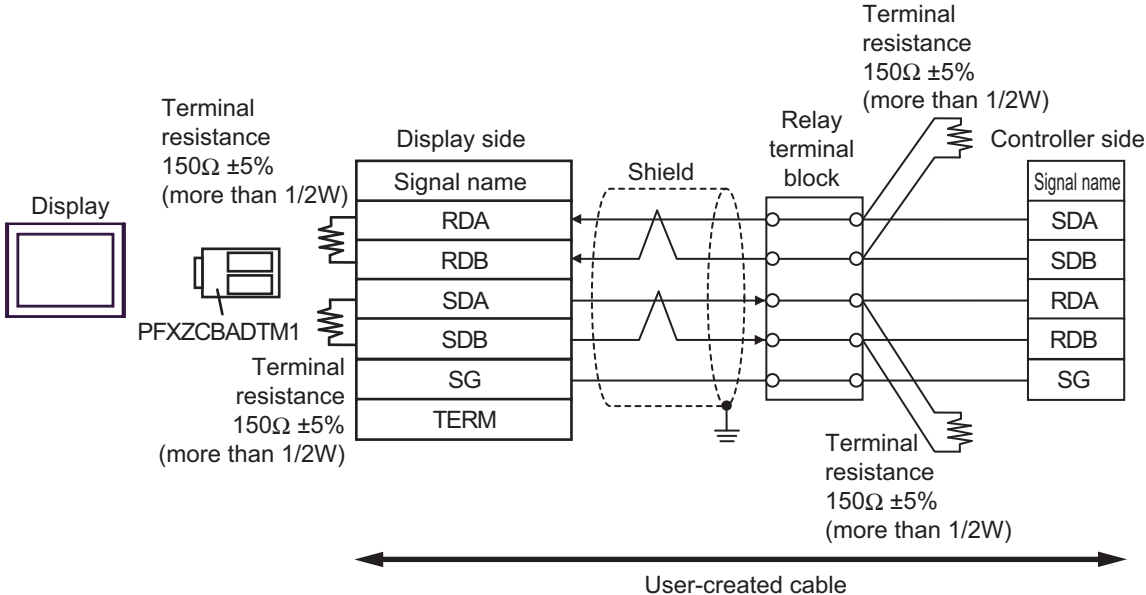
User-created cable

- 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable

Cable Diagram 10

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	10A	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 or less
	10B	User-created cable	
GP3000[*3] (COM2)	10C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	10D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	10E	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 or less
	10F	User-created cable	
GP-4106 (COM1)	10G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	10H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	10I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	10B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	10J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1 All GP3000 models except AGP-3302B

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

*3 All GP3000 models except the GP-3200 Series and AGP-3302B

*4 Available only with COM ports that support RS-422/485 (2wire).
☞ ■ IPC COM Port (page 9)

*5 Except GP-4203T

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

*7 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 10A.

10A)

• 1:1 Connection
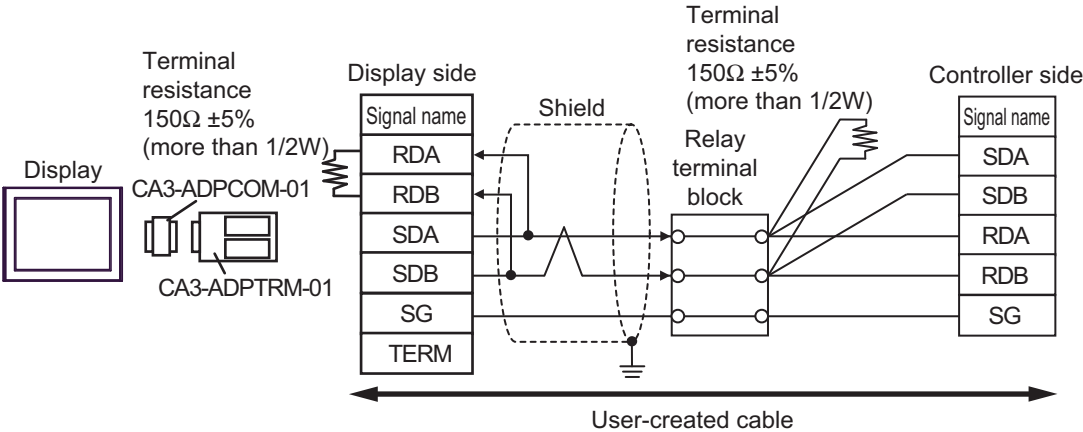
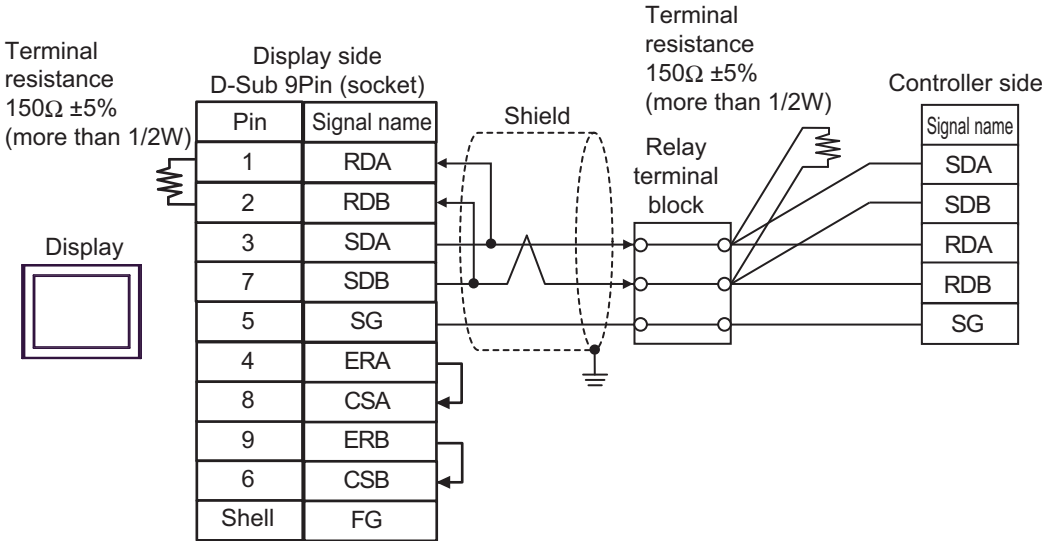User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)
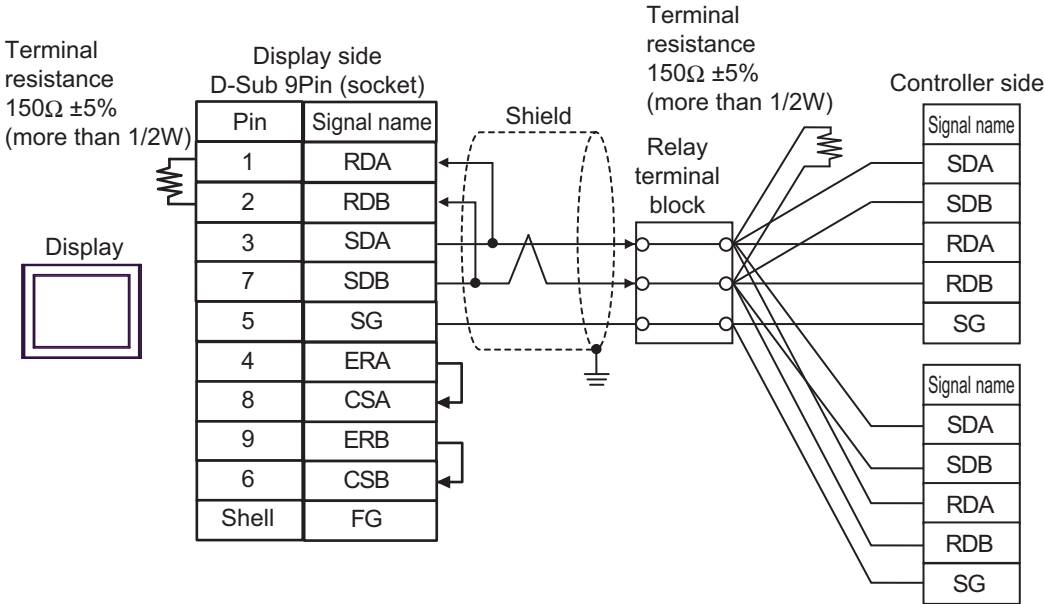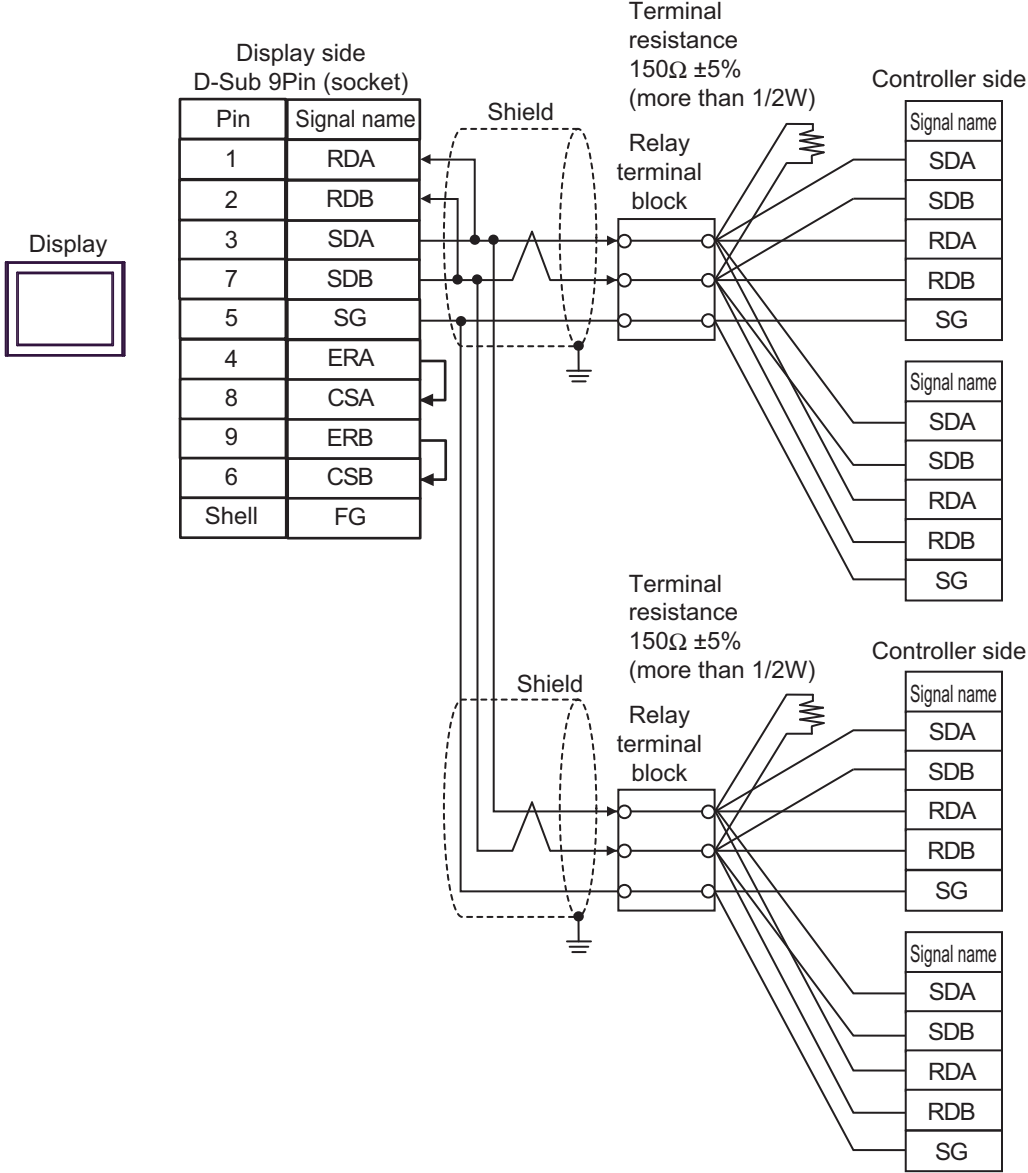

User-created cable
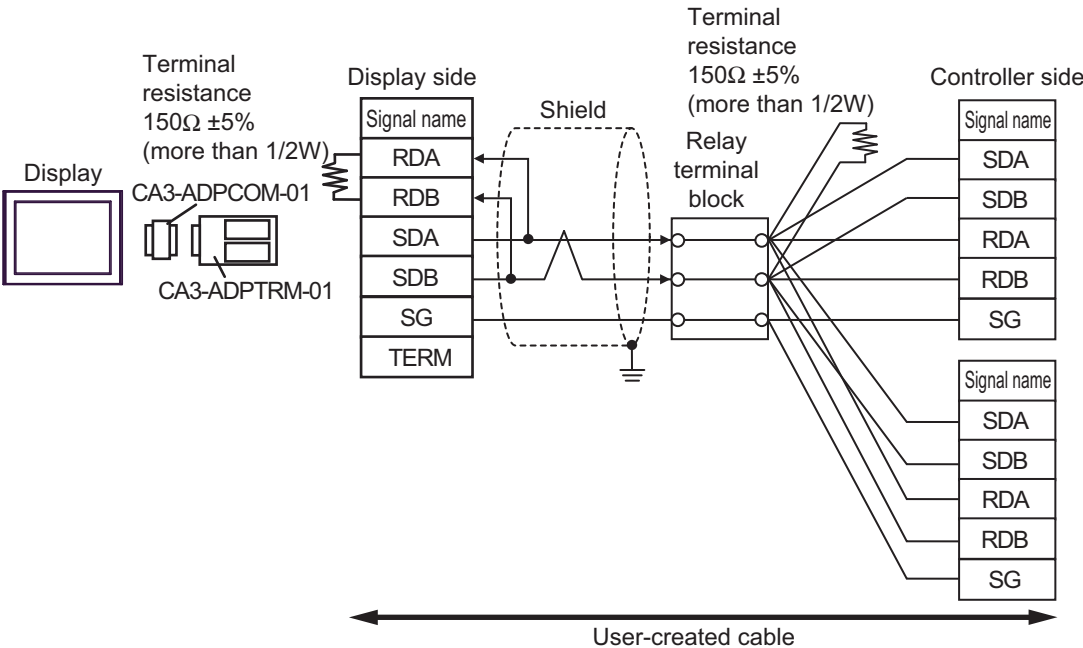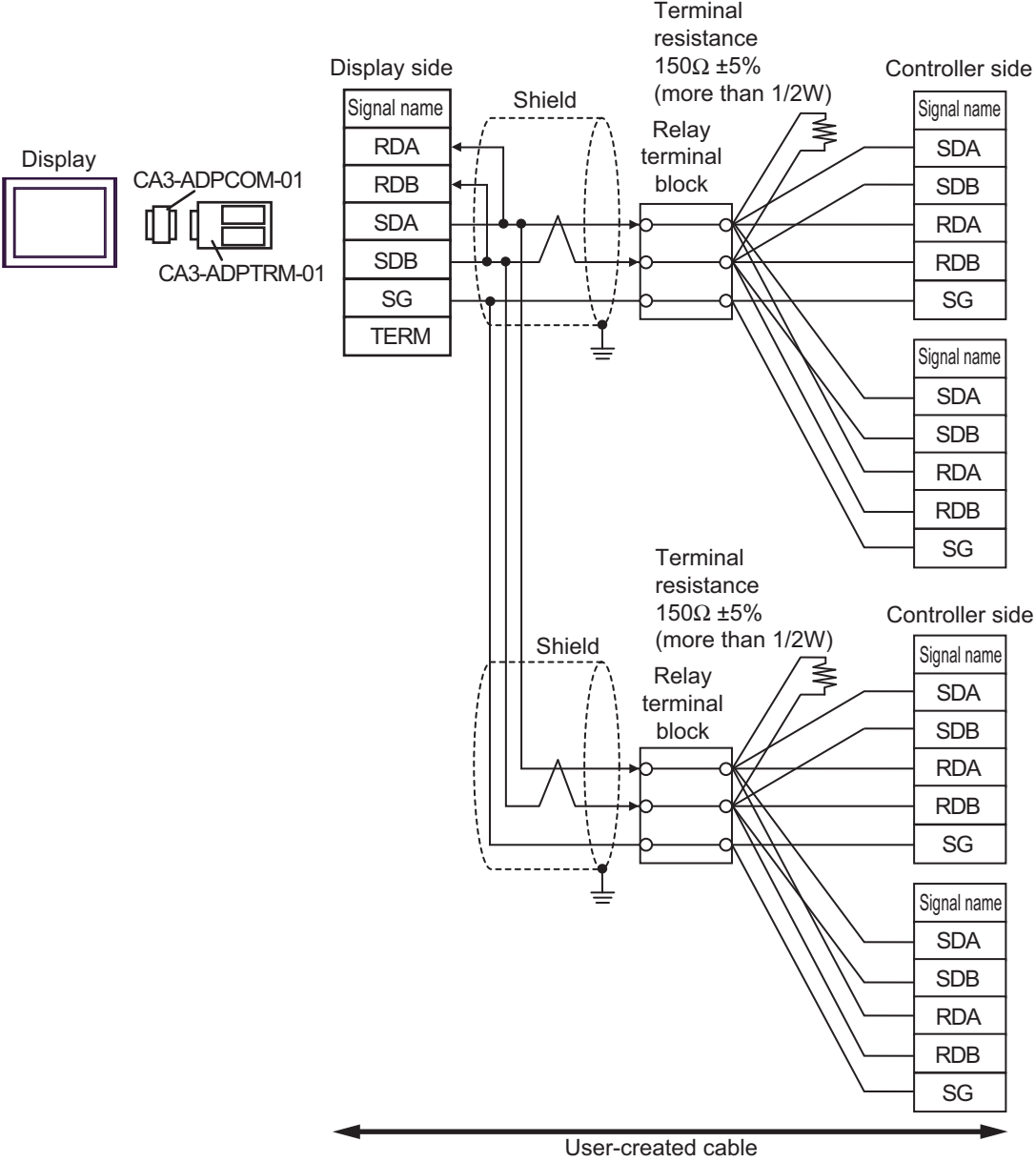
10B)

• 1:1 Connection
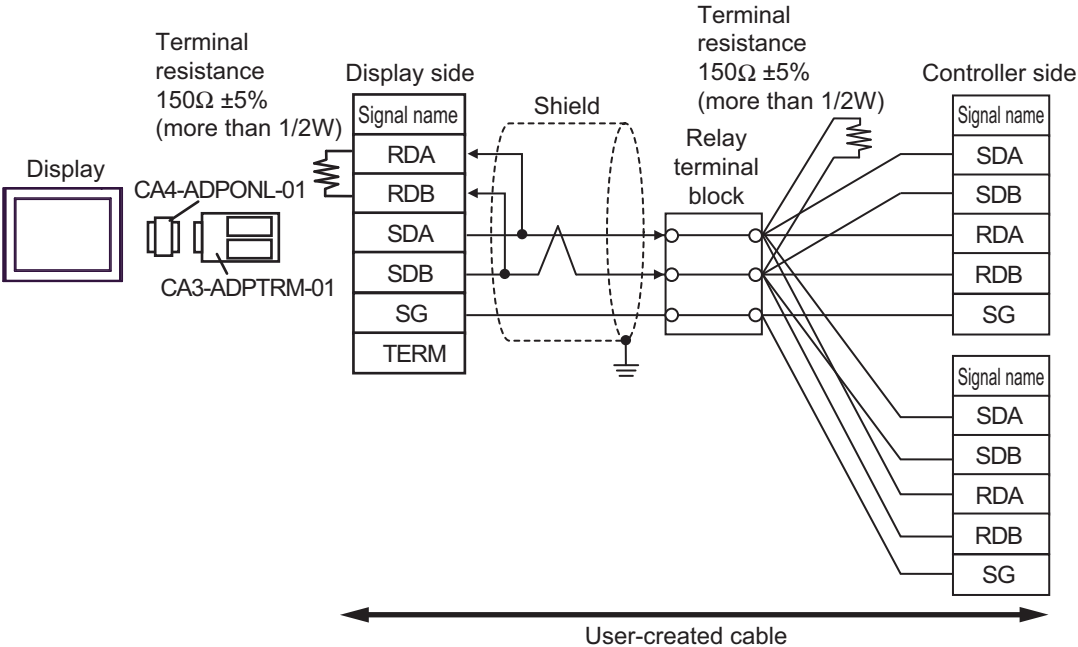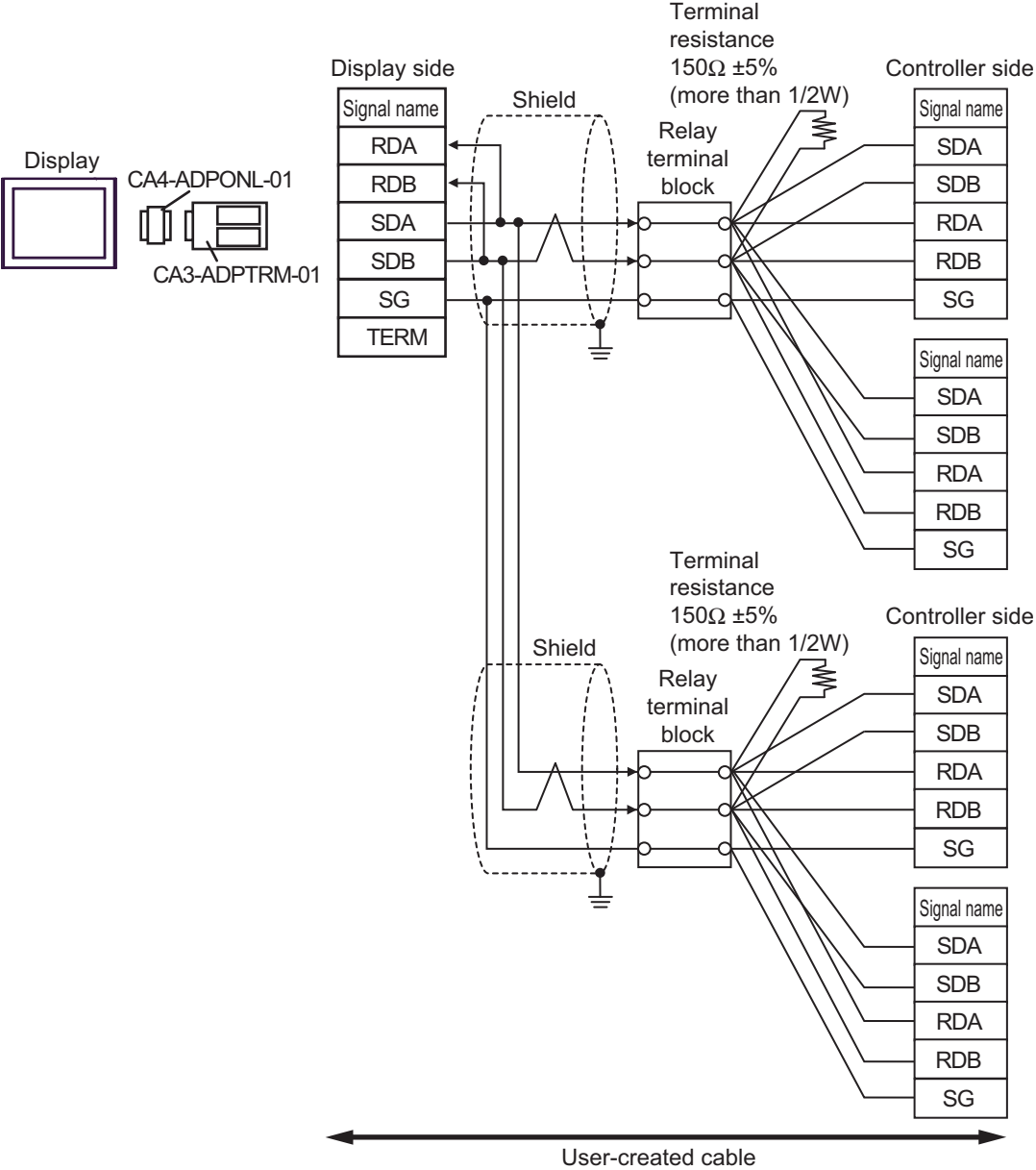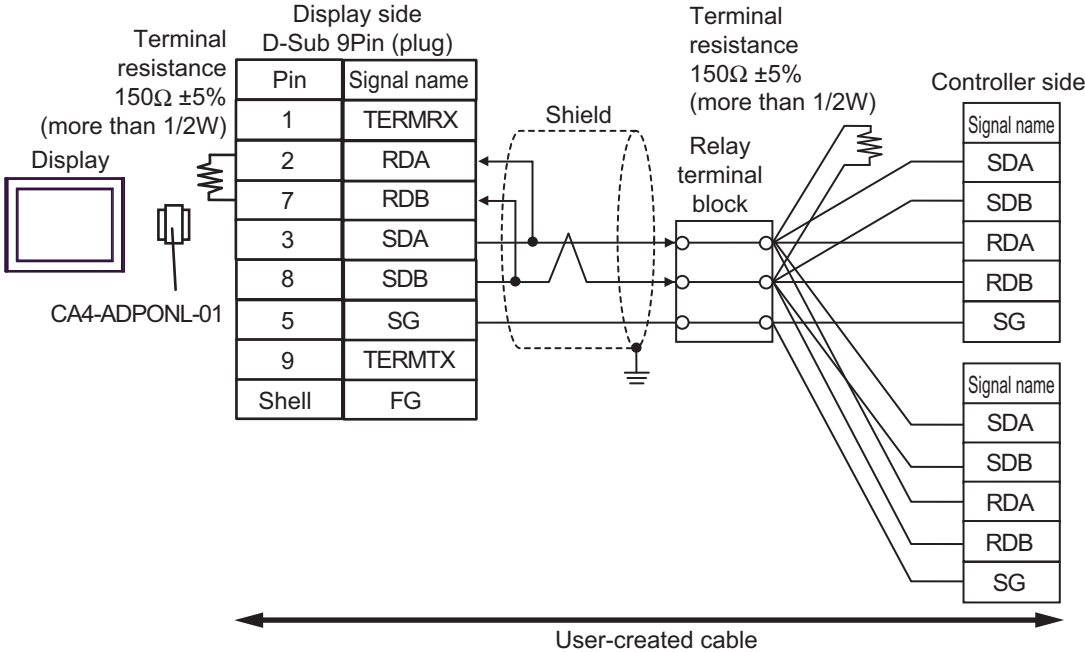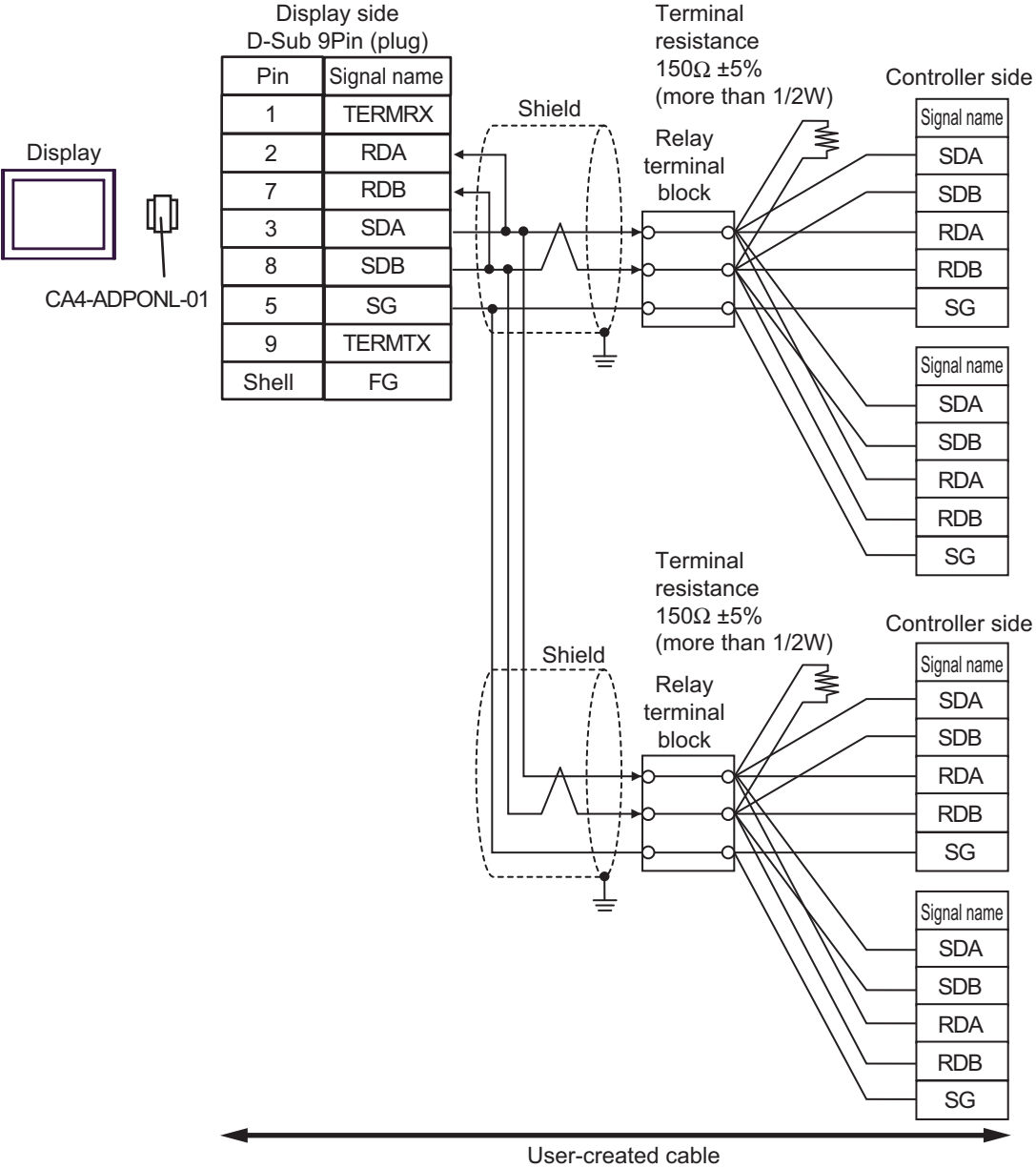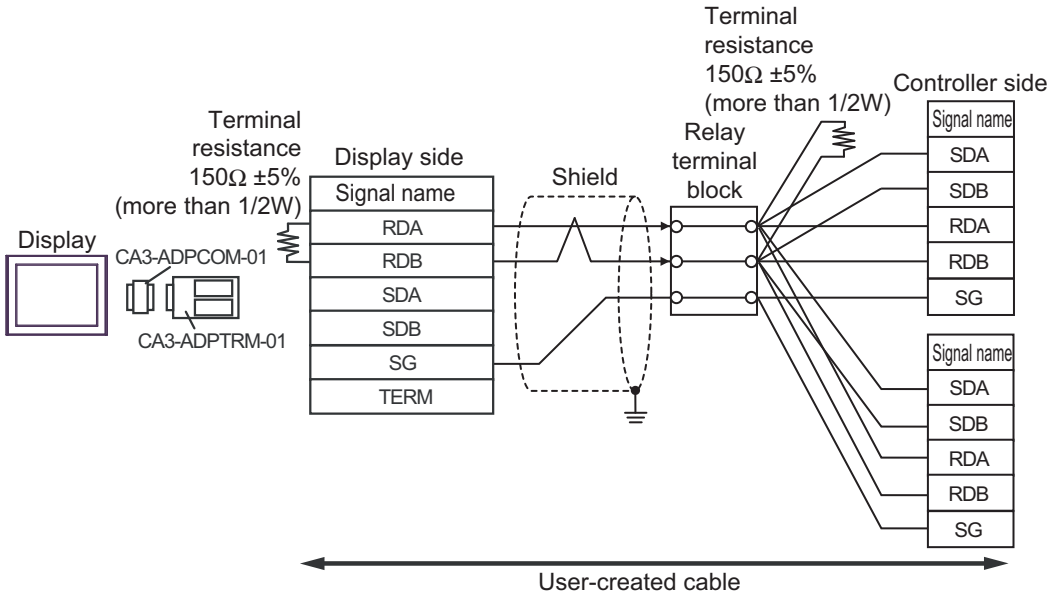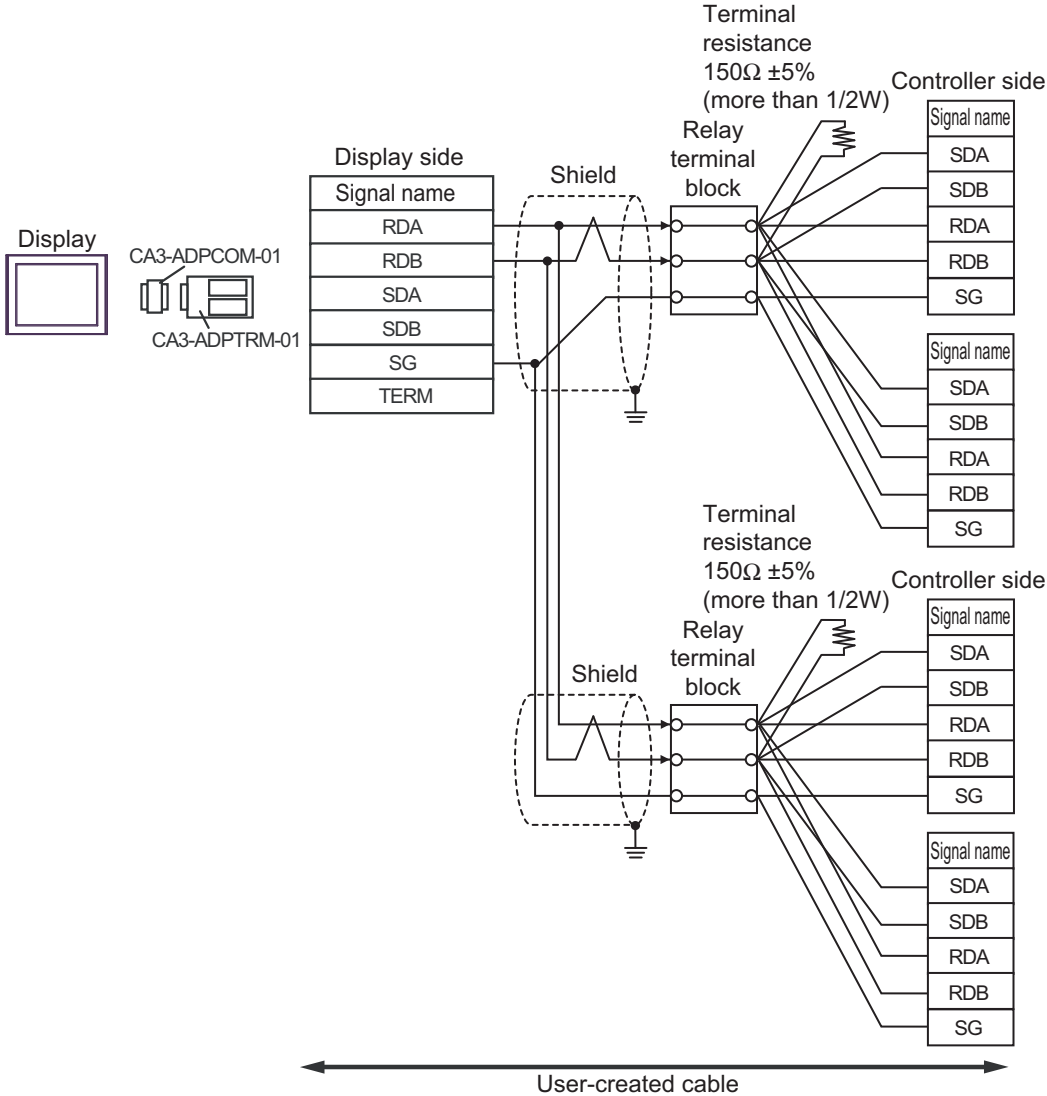

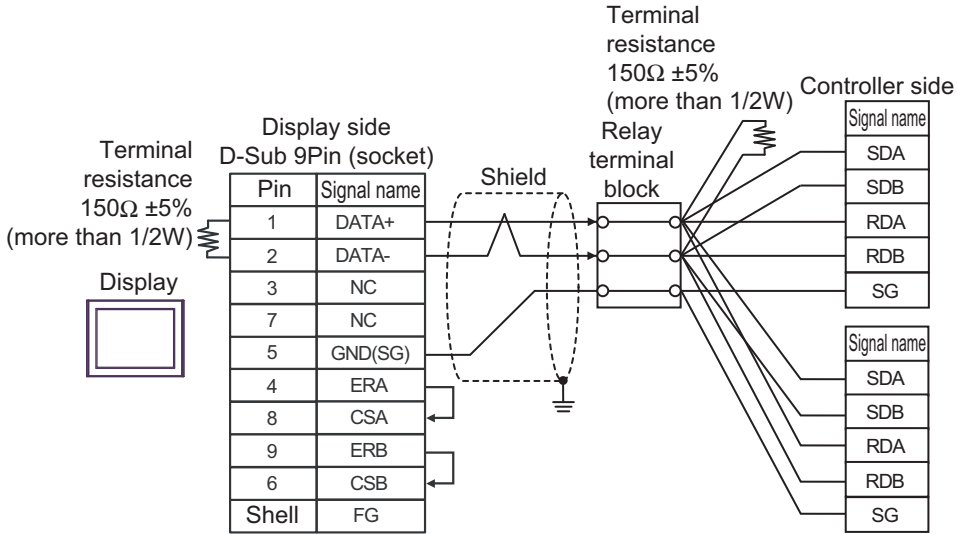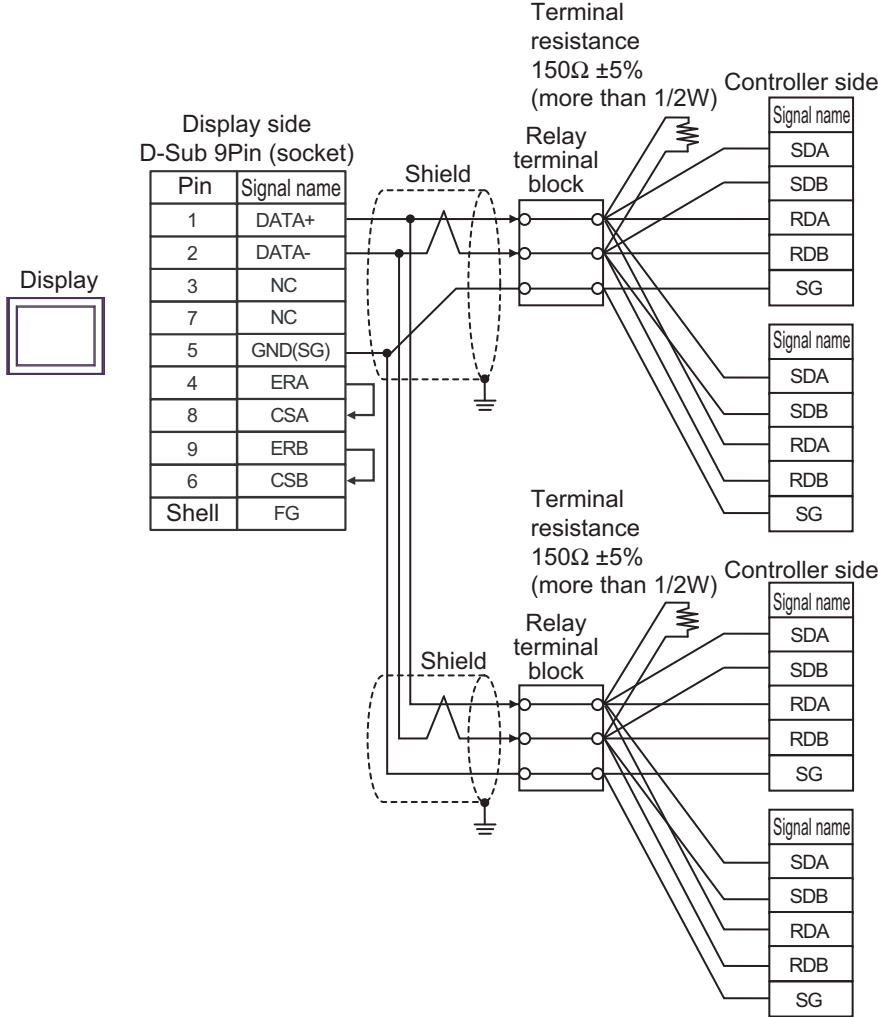• 1:n Connection (Display is end of network)

• 1:n Connection (Display is middle of network)

10C)

• 1:1 Connection
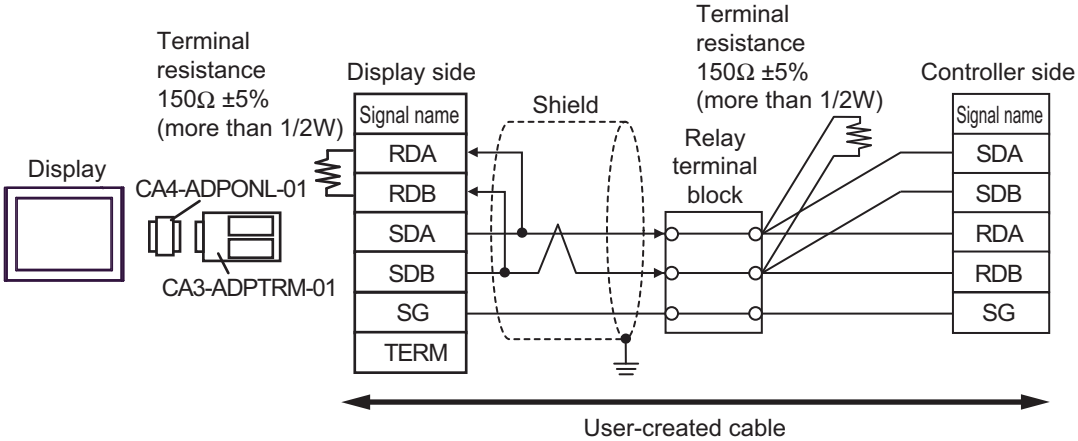
User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable

10D)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable

10E)

- 1:1 Connection

User-created cable

- 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable
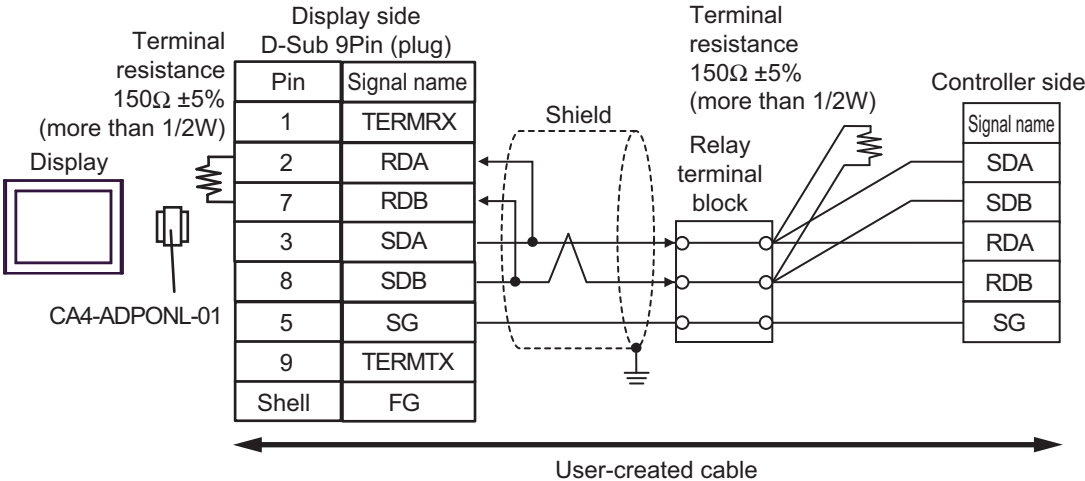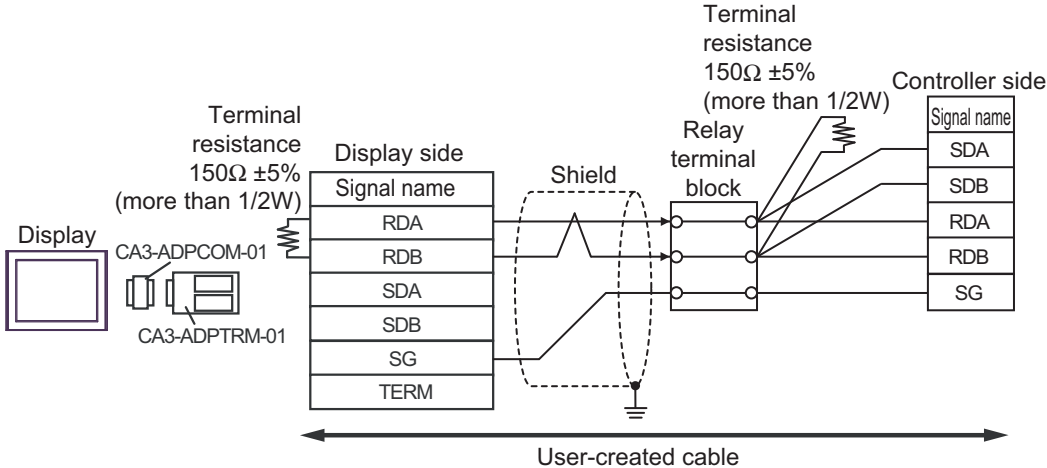
10F)
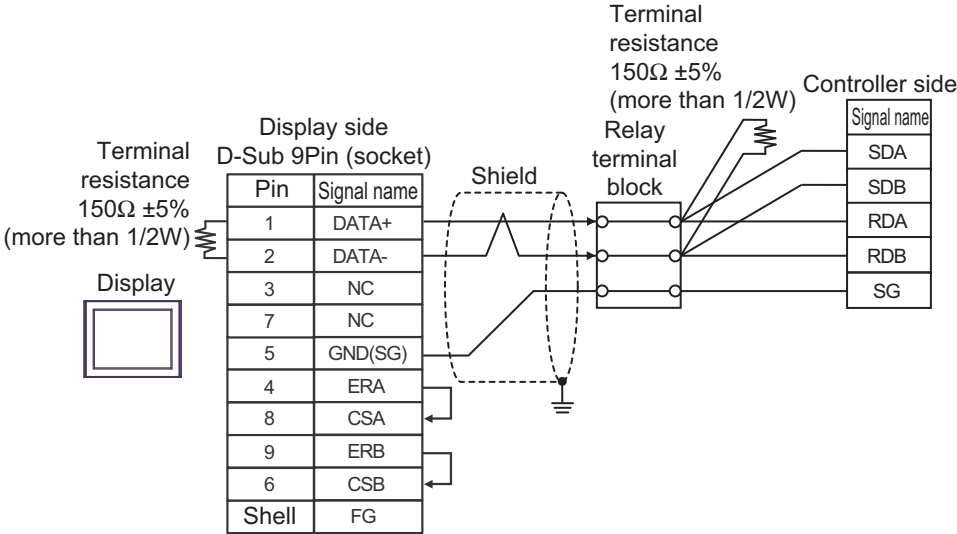
• 1:1 Connection
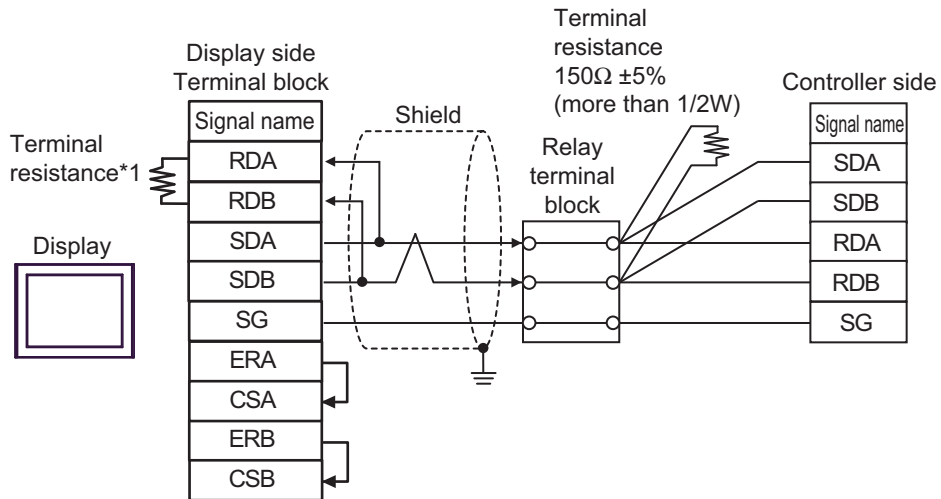

• 1:n Connection (Display is end of network)
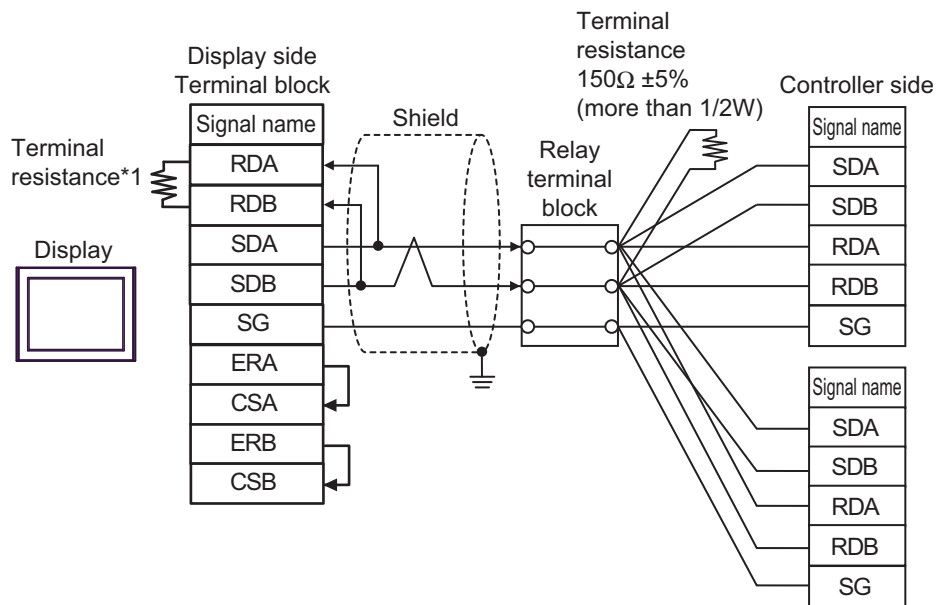
• 1:n Connection (Display is middle of network)

10G)

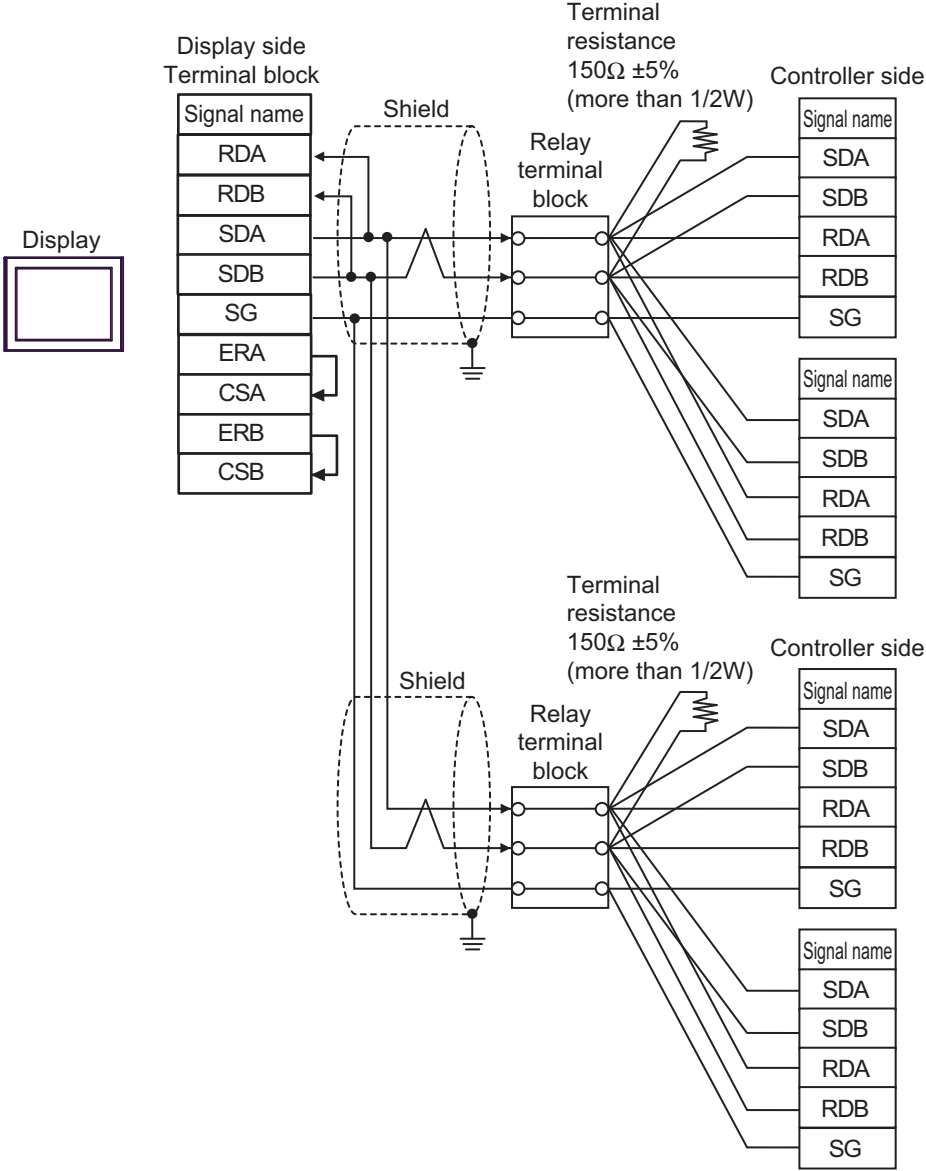• 1:1 Connection

• 1:n Connection (Display is end of network)

*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.

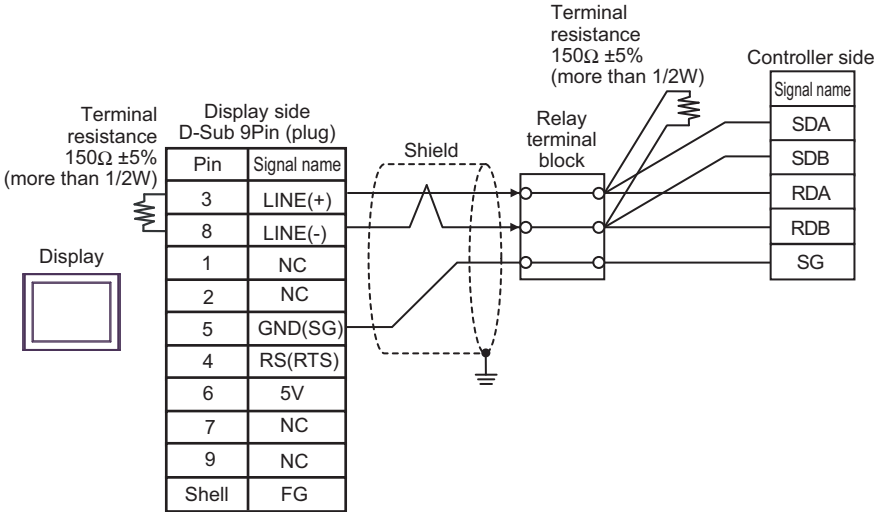| DIP Switch No.	Set Value
1	OFF
2	OFF
3	ON
4	ON

• 1:n Connection (Display is middle of network)
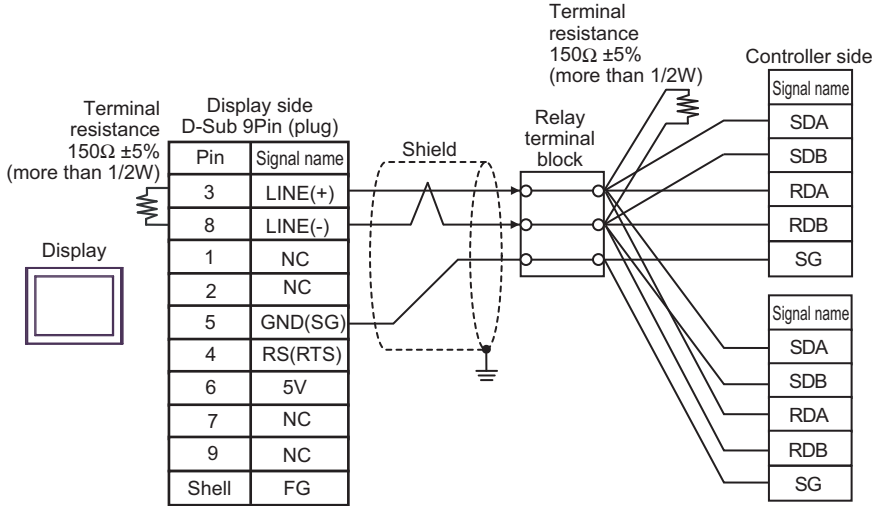

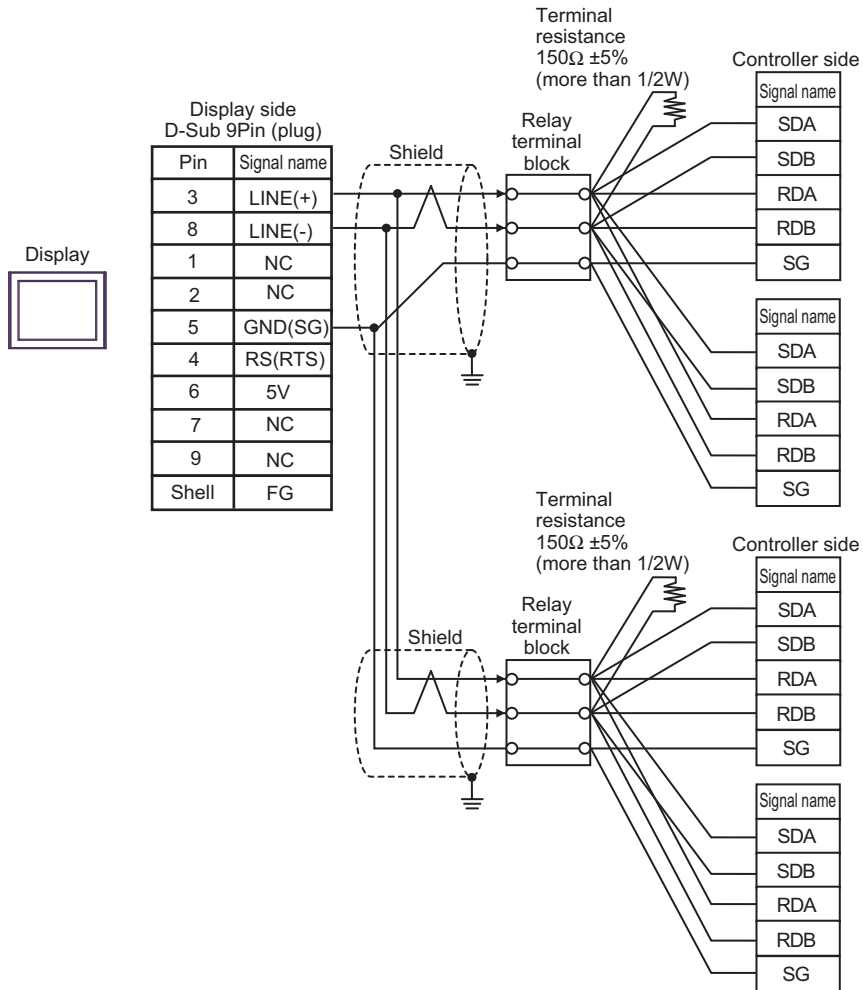| IMPORTANT | • Set the DIP Switch 1-4 on the rear of the Display to OFF. |

10H)

• 1:1 Connection

• 1:n Connection (Display is end of network)

• 1:n Connection (Display is middle of network)

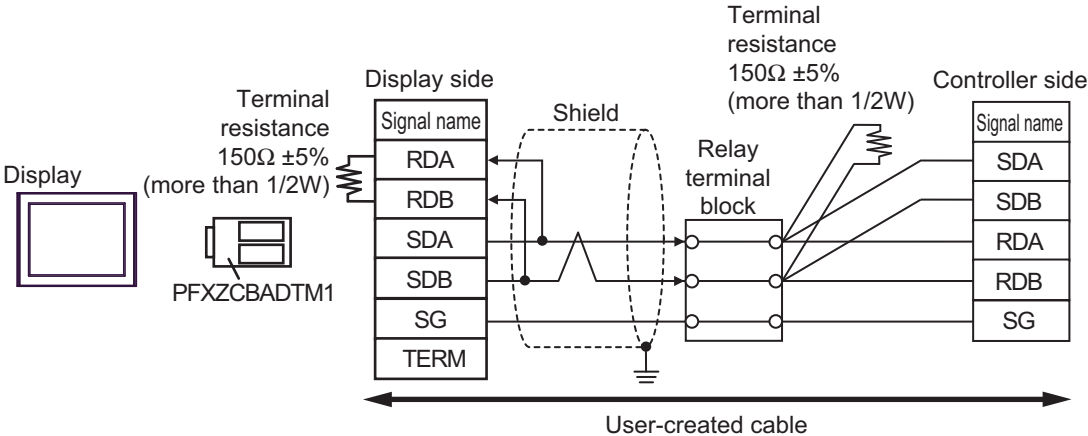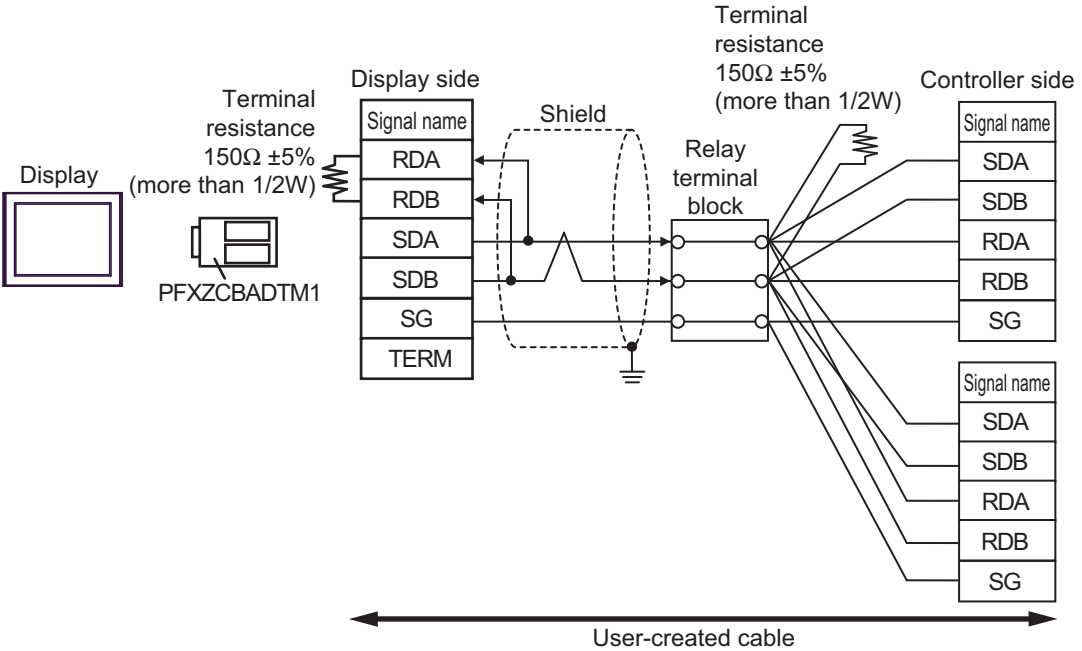|	
IMPORTANT	• The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE	• In COM on the GP-4107, the SG and FG terminals are isolated.

10I)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

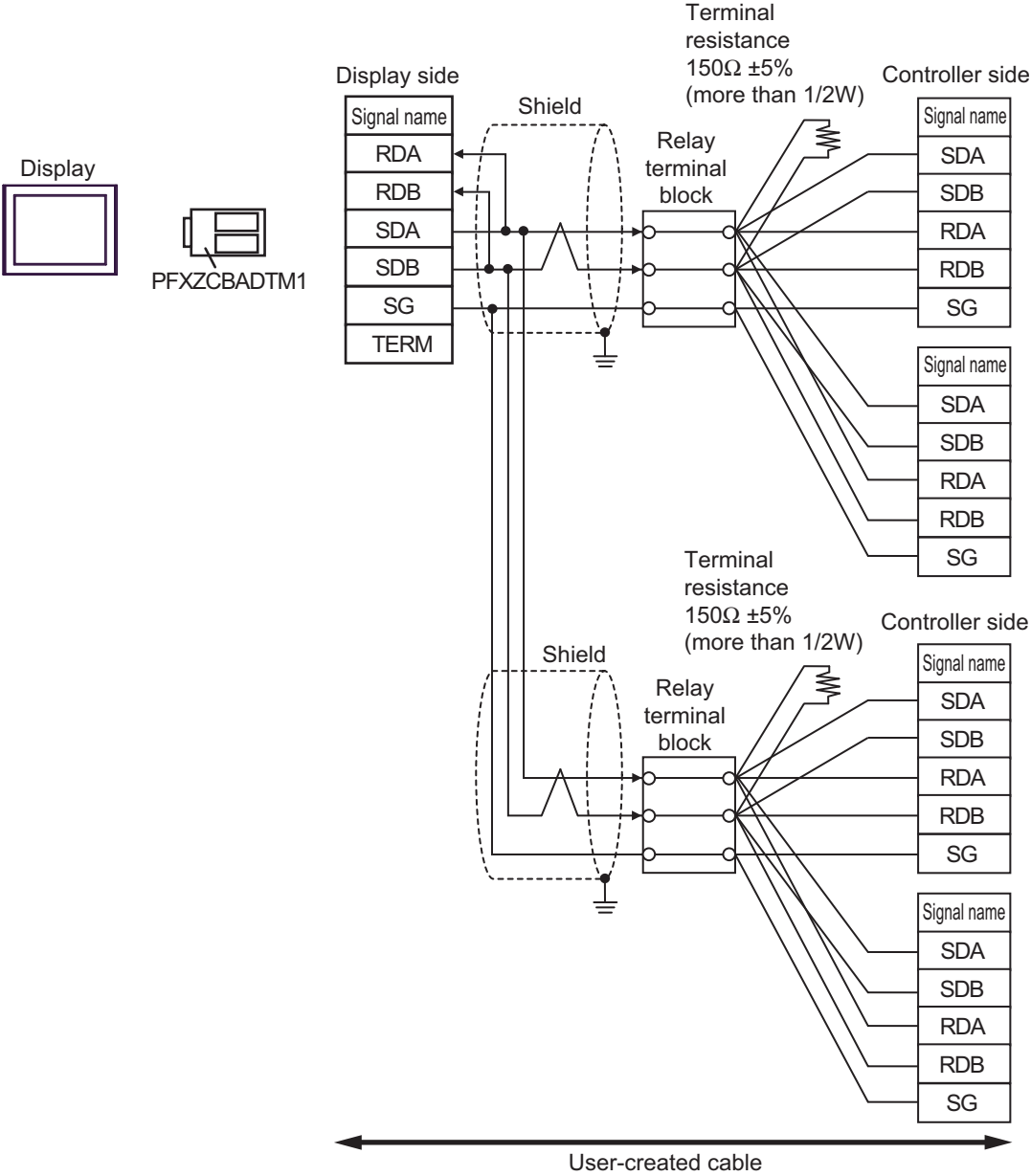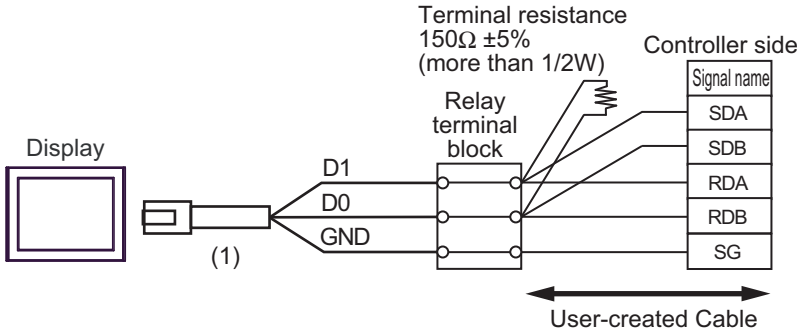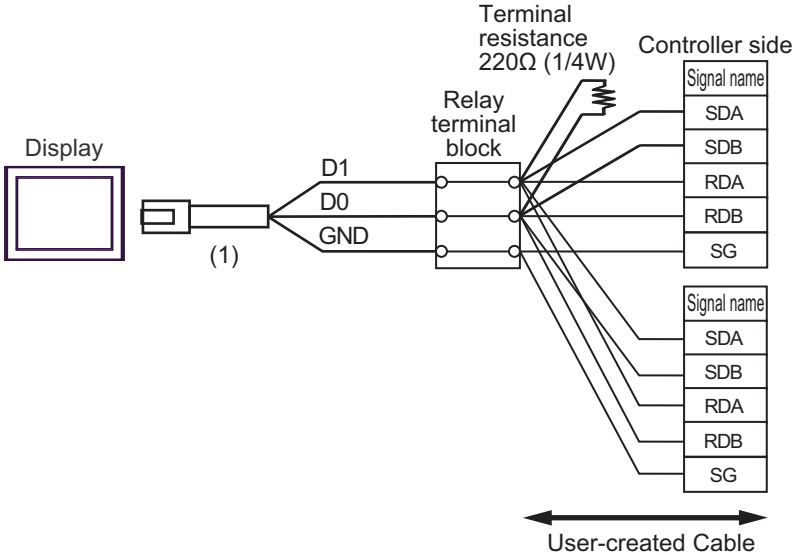• 1:n Connection (Display is middle of network)

User-created cable

10J)
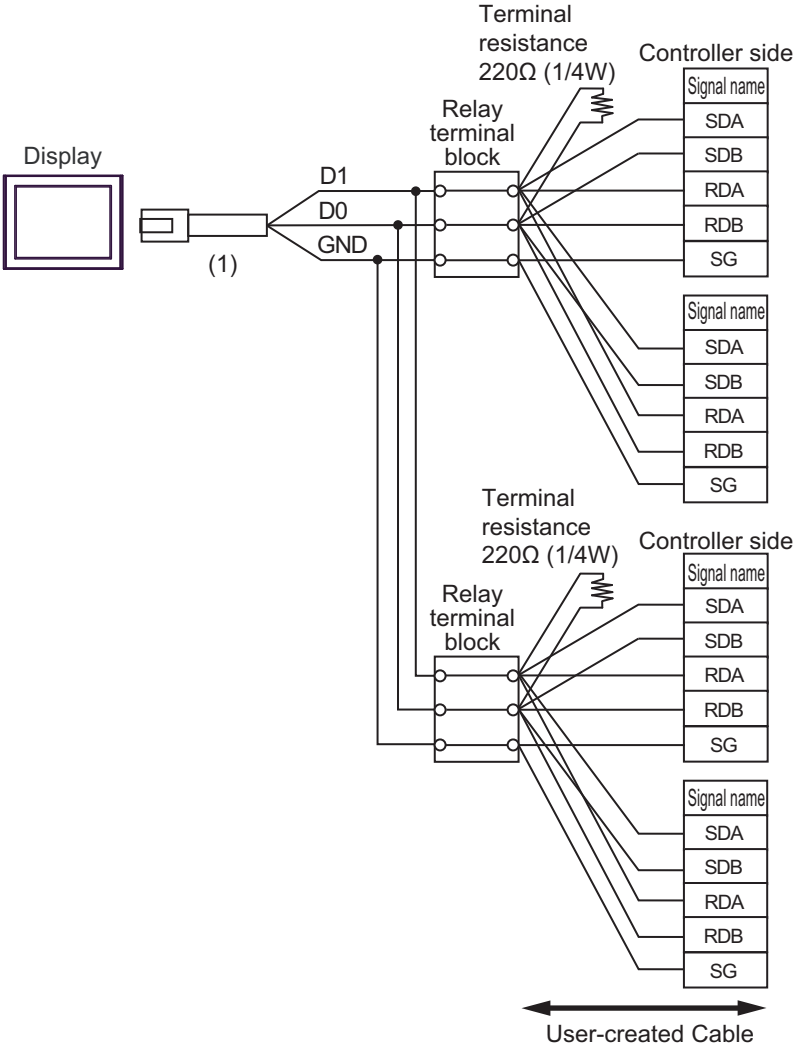
• 1:1 Connection

• 1:n Connection (Display is end of network)

• 1:n Connection (Display is middle of network)

User-created Cable

Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

Cable Diagram 11

Display (Connection Port)		Cable	Remarks
GP3000[*1] (COM1) AGP-3302B (COM2) GP-4*01TM (COM1) ST[*2] (COM2) LT3000 (COM1)	11A	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 or less
	11B	User-created cable	
GP3000[*3] (COM2)	11C	Online adapter by Pro-face CA4-ADPONL-01 + Connector terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	Cable length: 500m or less
	11D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	11E	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 or less
	11F	User-created cable	
GP-4106 (COM1)	11G	User-created cable	Cable length: 500m or less
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	11H	User-created cable	Cable length: 500m or less
GP4000[*6] (COM2) GP-4201T (COM1) SP5000 (COM1/2)	11I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	Cable length: 500m or less
	11B	User-created cable	
LT-4*01TM (COM1) LT-Rear Module (COM1)	11J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	Cable length: 200m or less

*1   All GP3000 models except AGP-3302B

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

*3   All GP3000 models except the GP-3200 Series and AGP-3302B

*4   Available only with COM ports that support RS-422/485 (2wire).
        ☞ ■ IPC COM Port (page 9)

*5   Except GP-4203T

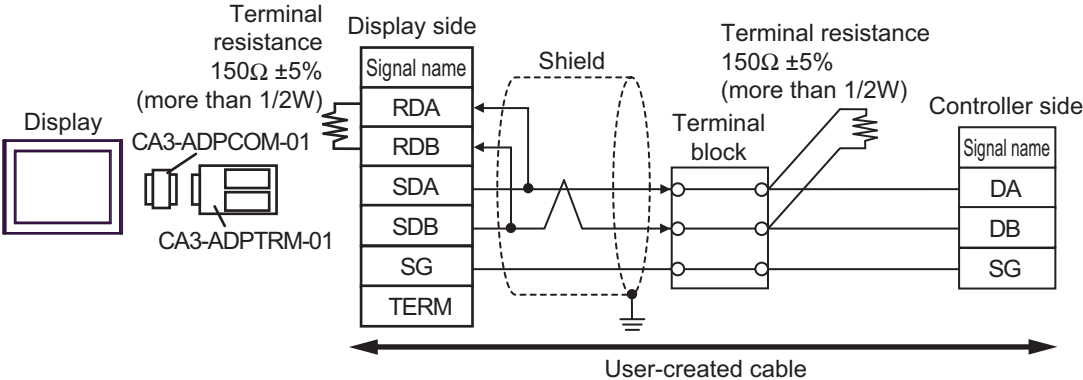*6   All GP4000 models except GP-4100 series, GP-4*01TM, GP-4201T and GP-4*03T

*7   When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 11A.
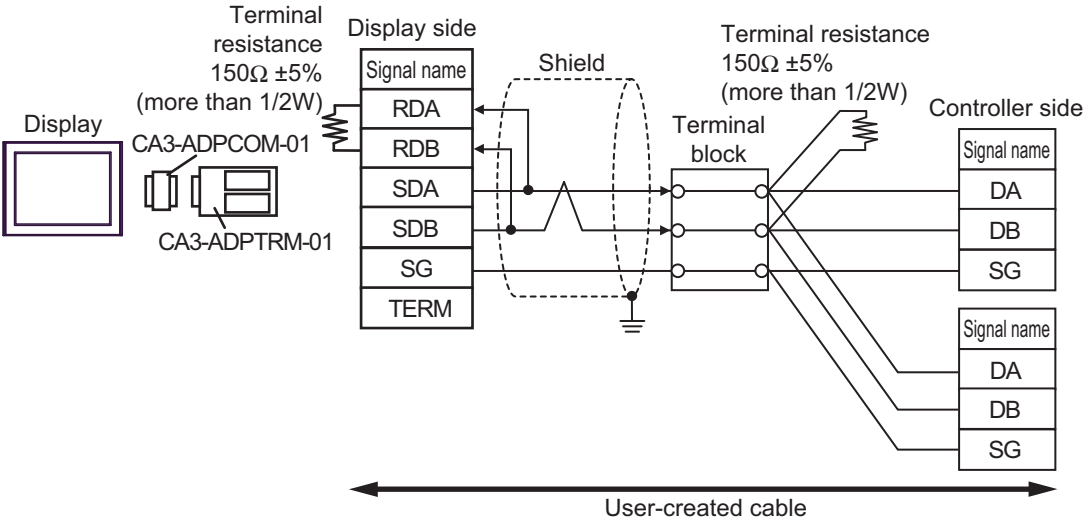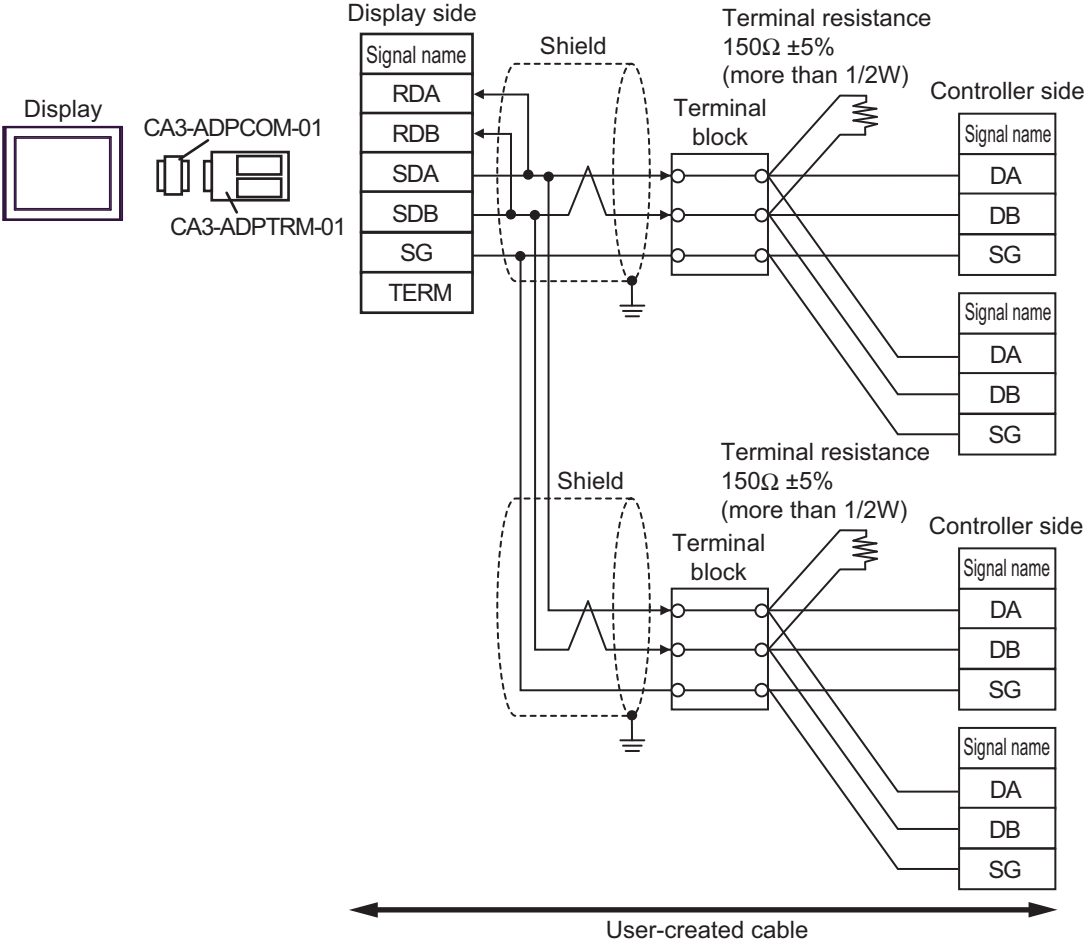
11A)

• 1:1 Connection

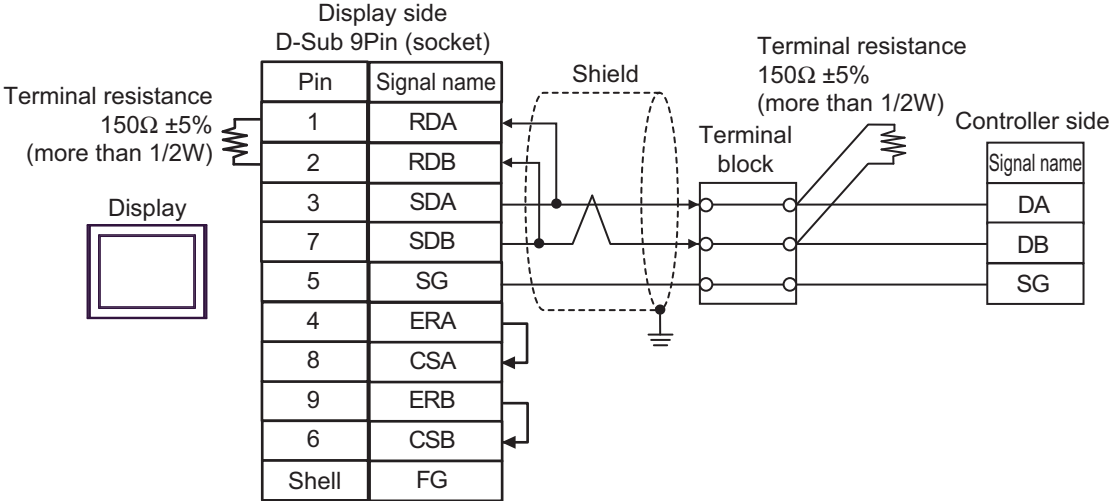User-created cable

• 1:n Connection (Display is end of network)

User-created cable

- 1:n Connection (Display is middle of network)

User-created cable

11B)

• 1:1 Connection

Display side
D-Sub 9Pin (socket)

Terminal resistance
150Ω ±5%
(more than 1/2W)

Display

Terminal resistance
150Ω ±5%
(more than 1/2W)

Controller side

Shield

Terminal block

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG

• 1:n Connection (Display is end of network)

Display side
D-Sub 9Pin (socket)

Terminal resistance
150Ω ±5%
(more than 1/2W)

Display

Terminal resistance
150Ω ±5%
(more than 1/2W)

Controller side

Shield

Terminal block

Pin	Signal name
1	RDA
2	RDB
3	SDA
7	SDB
5	SG
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG

Signal name
DA
DB
SG

• 1:n Connection (Display is middle of network)

11C)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

- 1:n Connection (Display is middle of network)

User-created cable

11D)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable

11E)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable

11F)

• 1:1 Connection

Terminal resistance
150Ω ±5%
(more than 1/2W)

Terminal
resistance
150Ω ±5%
(more than 1/2W)

Display

Display side
D-Sub 9Pin (socket)

Shield

Terminal
block

Controller side

Pin	Signal name
1	DATA+
2	DATA-
3	NC
7	NC
5	GND(SG)
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG

• 1:n Connection (Display is end of network)

Terminal resistance
150Ω ±5%
(more than 1/2W)

Terminal
resistance
150Ω ±5%
(more than 1/2W)

Display

Display side
D-Sub 9Pin (socket)

Shield

Terminal
block

Controller side

Pin	Signal name
1	DATA+
2	DATA-
3	NC
7	NC
5	GND(SG)
4	ERA
8	CSA
9	ERB
6	CSB
Shell	FG

Signal name
DA
DB
SG

Signal name
DA
DB
SG

• 1:n Connection (Display is middle of network)

11G)

- 1:1 Connection
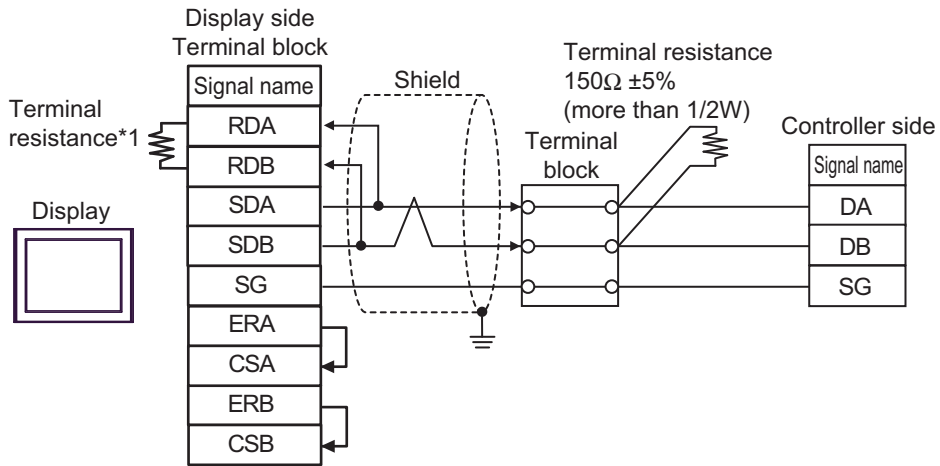
Display side
Terminal block

Signal name
RDA
RDB
SDA
SDB
SG
ERA
CSA
ERB
CSB

Terminal resistance*1

Display

Shield

Terminal resistance 150Ω ±5% (more than 1/2W)

Terminal block

Controller side

Signal name
DA
DB
SG

- 1:n Connection (Display is end of network)

Display side
Terminal block

Signal name
RDA
RDB
SDA
SDB
SG
ERA
CSA
ERB
CSB

Terminal resistance*1

Display

Shield

Terminal resistance 150Ω ±5% (more than 1/2W)

Terminal block

Controller side

Signal name
DA
DB
SG

Signal name
DA
DB
SG

*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	OFF
3	ON
4	ON

• 1:n Connection (Display is middle of network)
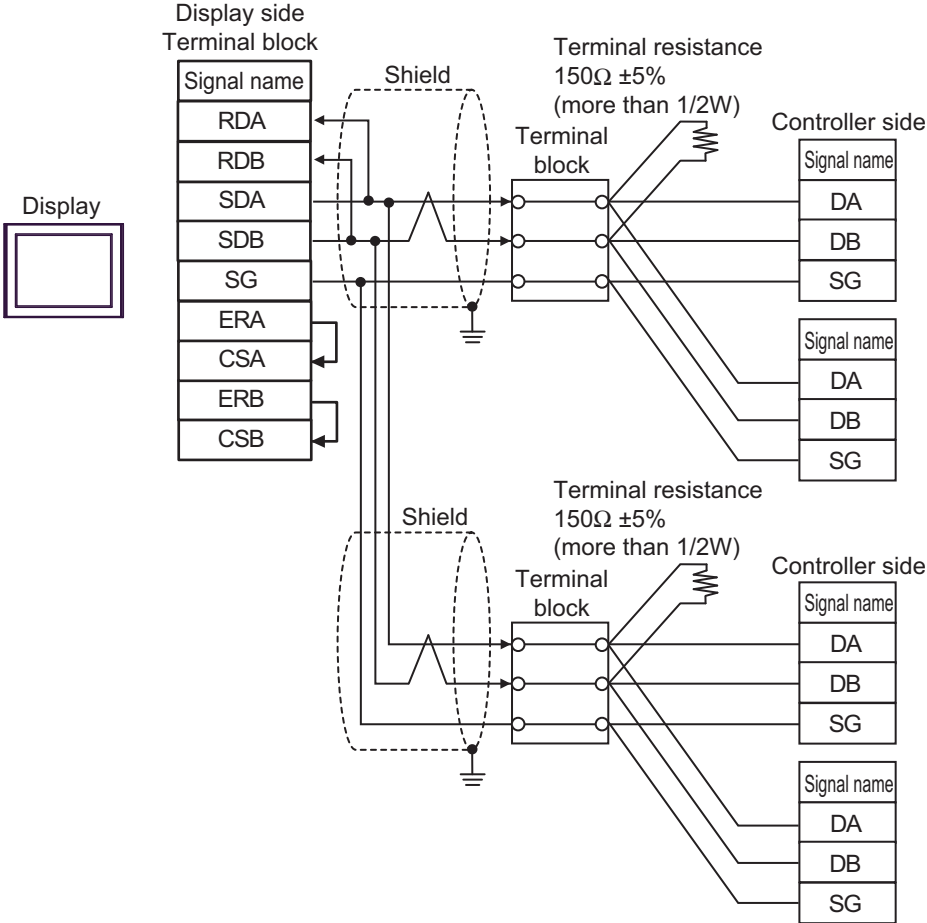
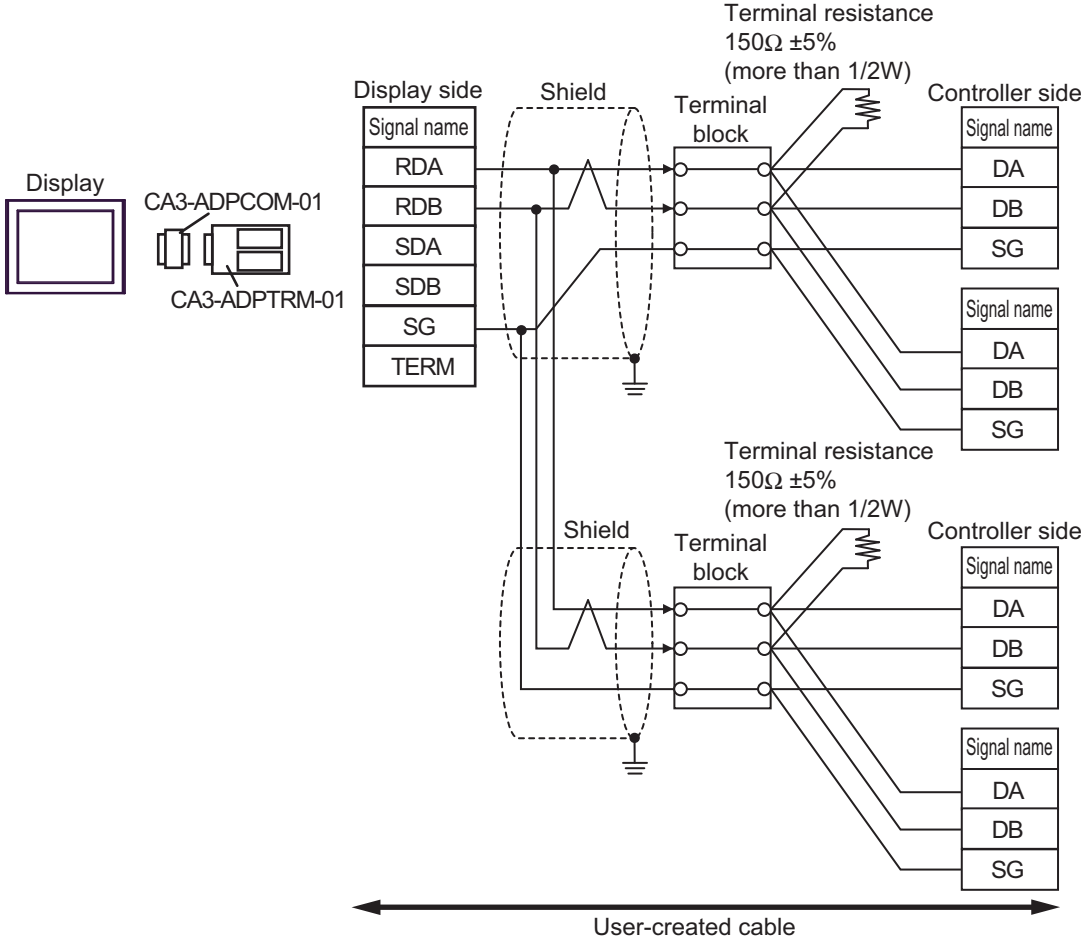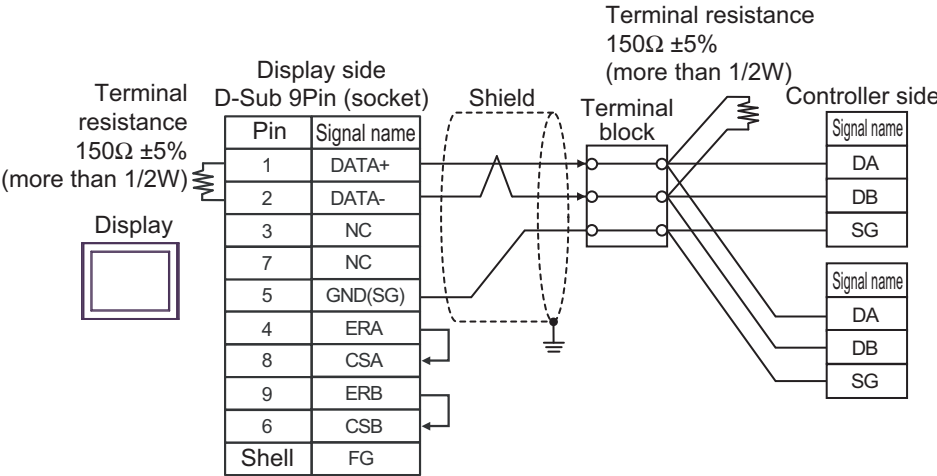IMPORTANT • Set the DIP Switch 1-4 on the rear of the Display to OFF.

11H)
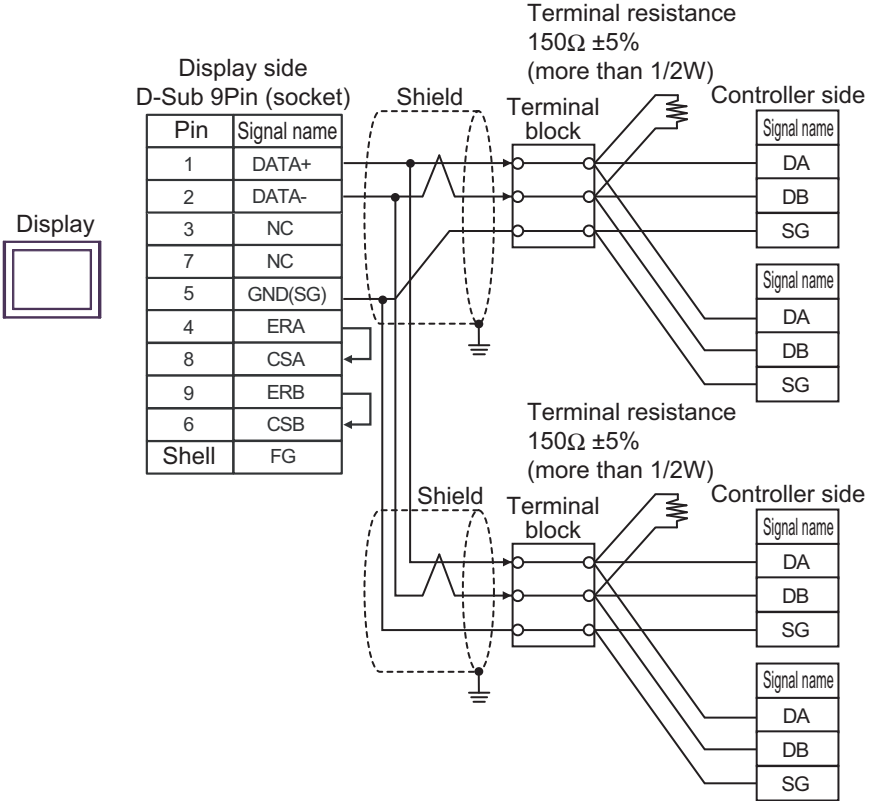
• 1:1 Connection

• 1:n Connection (Display is end of network)
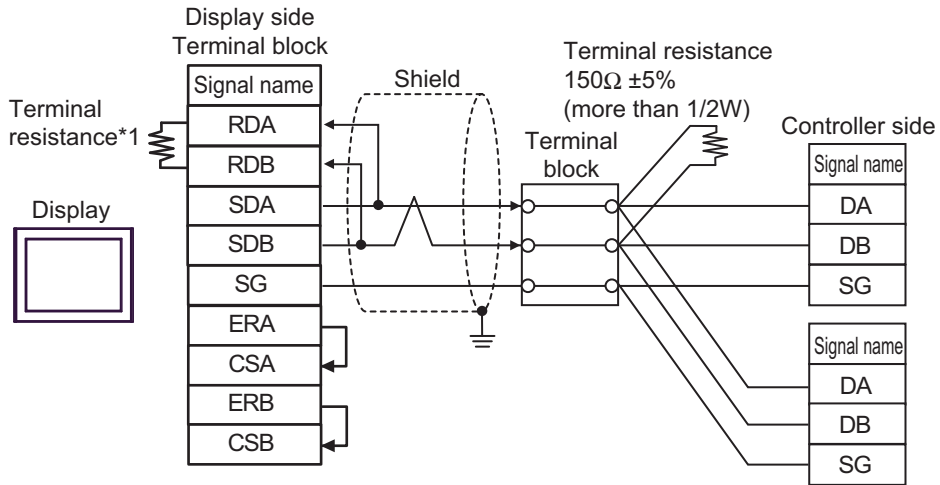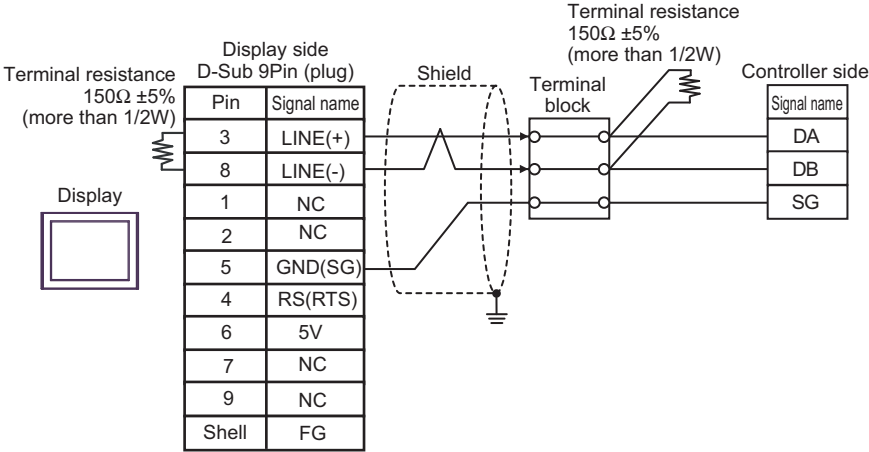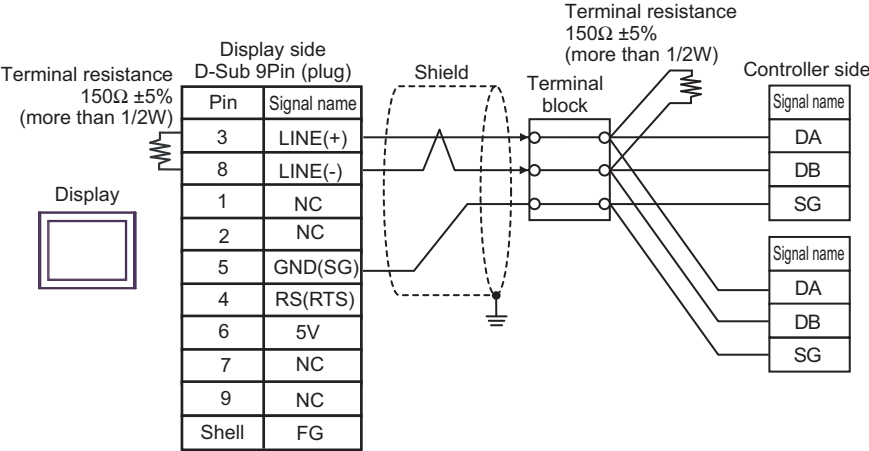
• 1:n Connection (Display is middle of network)

IMPORTANT	• The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE	• In COM on the GP-4107, the SG and FG terminals are isolated.

11I)

• 1:1 Connection

User-created cable

• 1:n Connection (Display is end of network)

User-created cable

• 1:n Connection (Display is middle of network)

User-created cable

11J)

• 1:1 Connection

Terminal resistance
150Ω ±5%
(more than 1/2W)

• 1:n Connection (Display is end of network)

Terminal resistance
220Ω (1/4W)
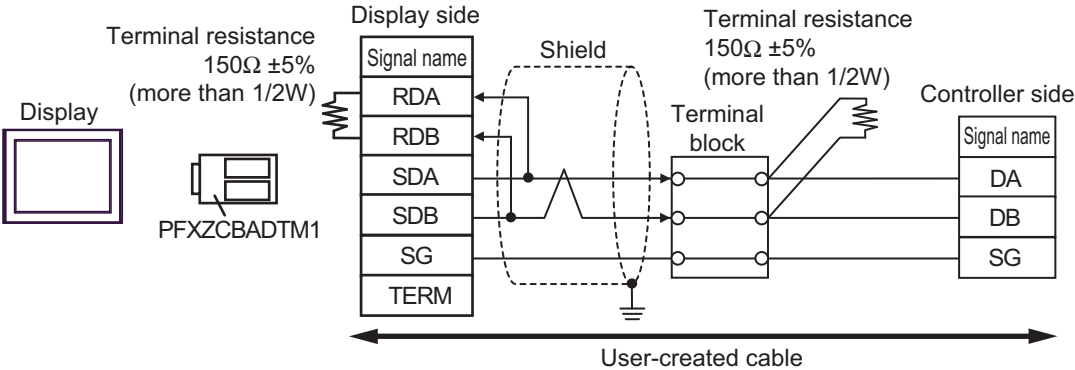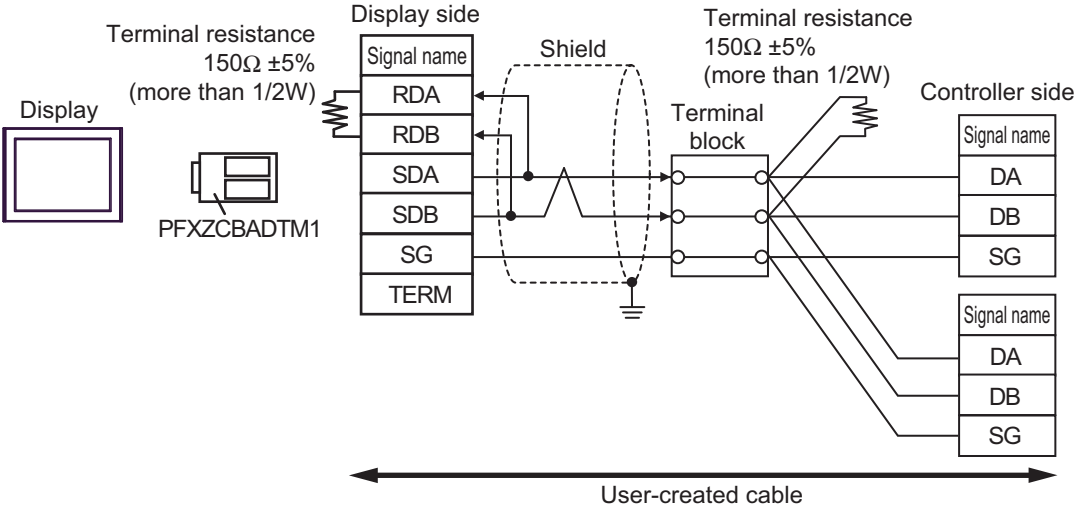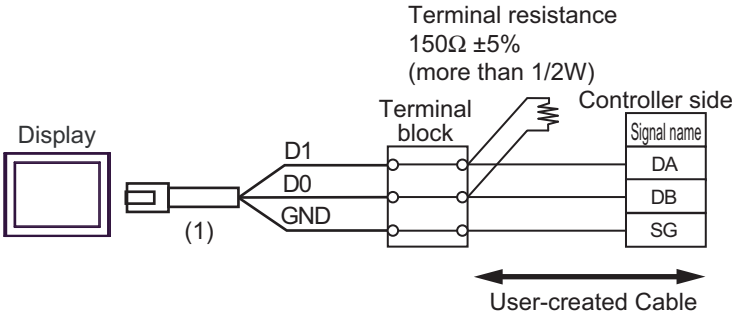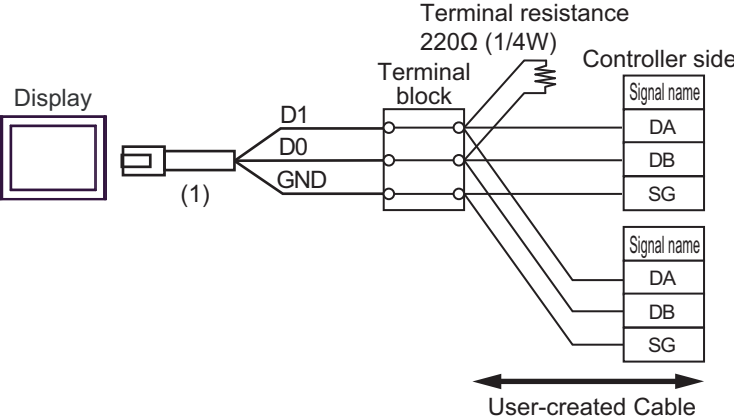
• 1:n Connection (Display is middle of network)
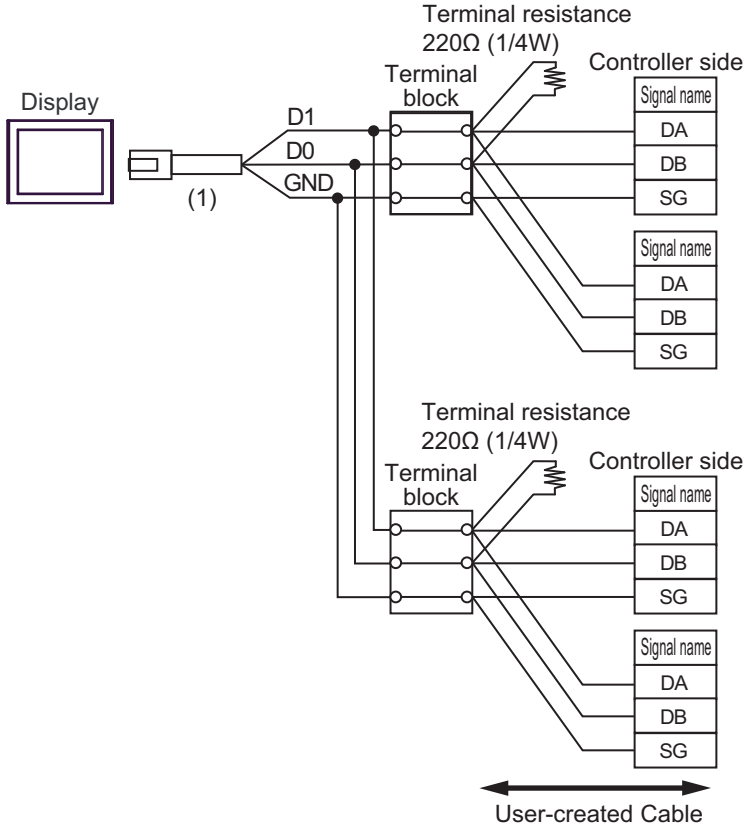
Number	Name	Notes
(1)	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

6   Supported Devices

The following table shows the range of supported device addresses. Note that the actually supported range varies depending on the External Device to be used. Please check the actual range in your External Device manual.

Enter the External Device address in the dialog box below.

1. Address	Enter the address.
2. Browse	A list of available parameters is displayed. Click the parameter you want to use, and press "Select" to enter the address.

6.1   SDC10

⬚⬚⬚ : This address can be specified as system data area.

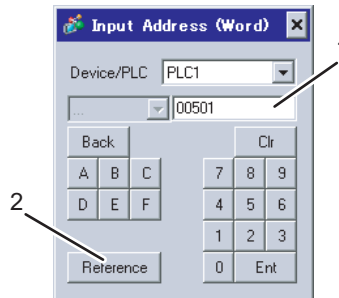| Device	Bit Address	Word Address	32 bits	Remarks
Data	00501.0-04504.F	00501-04504	⌐L / H⌐	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

> **IMPORTANT**
> • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

> **NOTE**
> • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.
>
>   Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
>
> • Refer to the precautions on manual notation for icons in the table.
>
>   ☞ "Manual Symbols and Terminology"
>
> • Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.2　SDC15/SDC25/SDC26/SDC35/SDC36

⬜⬜⬜ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00273.0-31243.F	00273-31243	⌈L / H⌋	*1

*1　When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT　• Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE　• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

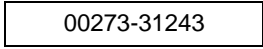Cf.　GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.3　SDC20/SDC21

⬚⬚⬚⬚ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	0301.0-0690.F	0301-0690	⌞L / H⌝	*1

*1　When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT	• Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE	• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

   Cf.　　GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
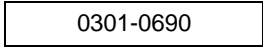
• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.4　　　SDC30/SDC31

[   ] : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00501.0-06049.F	00501-06049	⌐L / H⌐	*1

*1　When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT	• Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE	• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

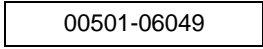　　Cf.　　GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

　• Refer to the precautions on manual notation for icons in the table.

　　☞ "Manual Symbols and Terminology"

　• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.5   SDC40A

⬜▭ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00501.0-06100.F	00501-06100	L / H	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
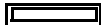
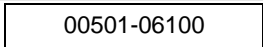• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.6　　　SDC40B

⬛▭▭▭▭ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00501.0-08902.F	00501-08902	⌈L / H⌋	*1

*1　When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT	• Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE

• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

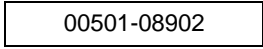　Cf.　GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.7   SDC40G

[▭▭▭▭] : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00501.0-06100.F	00501-06100	⌈**L / H**⌋	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

   Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

   • Refer to the precautions on manual notation for icons in the table.

   ☞ "Manual Symbols and Terminology"

   • Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.8 SDC45/46

⬚⬚⬚⬚ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1000.0-BFFF.F	1000-BFFF	⌐L / H⌐	*1

*1 When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

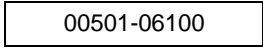Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.9   DMC10

:   : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	01001.0-07806.F	01001-07806	⌐L / H⌐	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

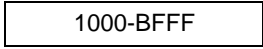Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
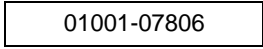
• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.10   DMC50

 : This address can be specified as system data area.

Device	Bit Address	Word Address	64 bits	Remarks
Data	00000001.00-CF1FFF3A.1F	00000001-CF1FFF3A	L / H	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

> **IMPORTANT**
> • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

> **NOTE**
> • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.
>
>   Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
>
> • Refer to the precautions on manual notation for icons in the table.
>
>   ☞ "Manual Symbols and Terminology"
>
> • Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.11 DCP31/DCP32

⬛▭⬛ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00501.0-04600.F	00501-04600	⌈L / H⌋	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

   Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
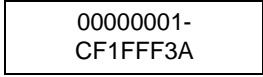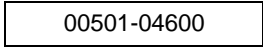
• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.12   DCP551

⬚⬚⬚⬚ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00256.0-01712.F	00256-01712	$\lceil$ **L / H** $\rceil$	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

   Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

   • Refer to the precautions on manual notation for icons in the table.

   ☞ "Manual Symbols and Terminology"

   • Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.13   DCP552

[   ] : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00256.0-02003.F	00256-02003	L / H	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

NOTE

• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
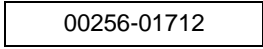
• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.14   CMC10B

 : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	00401.0-07868.F	00401-07868	L / H	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
- Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE
- You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

   Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

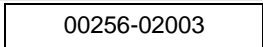- Refer to the precautions on manual notation for icons in the table.

   ☞ "Manual Symbols and Terminology"

- Even if you use a nonexistent address, the read error may not be displayed. In this case, "0" is retained for the read data. Note that the write error is displayed.

6.15   PBC

⬜⬜⬜ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1000.0-3029.F	1000-3029	L / H	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
- Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE
- You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

  Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
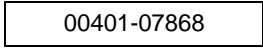
- Refer to the precautions on manual notation for icons in the table.

  ☞ "Manual Symbols and Terminology"

6.16 CMS/CMF015

⬜⬜⬜ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1001.0-5214.F	1001-5214	⌐L / H⌐	*1

*1 When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
• Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE
• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

Cf. GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"
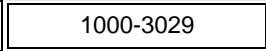
• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

6.17   CMQ-V

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1001.0-5222.F	1001-5222	[L / H]	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

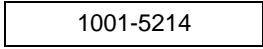| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

  Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

  • Refer to the precautions on manual notation for icons in the table.

  ☞ "Manual Symbols and Terminology"

6.18 MPC

 : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1001.0-5220.F	1001-5220	L / H	*1

*1 When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
- Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].

NOTE
- You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.
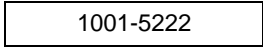
  Cf. GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

- Refer to the precautions on manual notation for icons in the table.

  )) "Manual Symbols and Terminology"

6.19 　　MVF

 : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1001.0-5217.F	1001-5217	⌊L / H⌋	*1

*1　When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| IMPORTANT | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

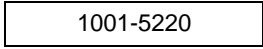| NOTE | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

Cf.　GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

6.20   CML/CMF050

▭ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1201.0-5399.F	1201-5399	L / H	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

| **IMPORTANT** | • Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area]. |

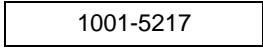| **NOTE** | • You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size. |

  Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

• When an address that does not exist in the controller is read out, the value of 65535 is read out but no error is displayed. Also, when an address that does not exist in the controller is used in the project, the value of 65535 may be read out even when it is the address data existing in the controller.

6.21 AUR350C

⬚ : This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1000.0-4159.F	1000-4159	L / H	*1

*1 When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
- Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].
- Change the setting for [Text Data Mode] to "2" in the communication settings of GP-Pro EX. The correct value is not displayed when the initial value "1" is specified.

NOTE
- You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.
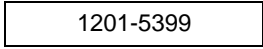
  Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

- Refer to the precautions on manual notation for icons in the table.

  ☞ "Manual Symbols and Terminology"

6.22 AUR450C

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1000.0-8159.F	1000-8159	L / H	*1

*1 When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
• Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].
• Change the setting for [Text Data Mode] to "2" in the communication settings of GP-Pro EX. The correct value is not displayed when the initial value "1" is specified.

NOTE
• You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

Cf. GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

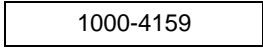• Refer to the precautions on manual notation for icons in the table.

☞ "Manual Symbols and Terminology"

6.23   RX

: This address can be specified as system data area.

Device	Bit Address	Word Address	32 bits	Remarks
Data	1000.0-2472.F	1000-2472	H / L	*1

*1   When bits are written, the Display reads the corresponding word address from the External Device, sets particular bits of that word address to ON, and then returns the resulting address to the External Device. Note that the correct data may not be written if you change the word address using the ladder program while the Display reads data from the External Device and returns it.

IMPORTANT
- Setting [Enable System Data Area] in the system area setting of GP-Pro EX may cause malfunction. Do not set [Enable System Data Area].
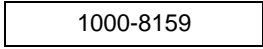
NOTE
- You can set only the reading area size in the Controller's system area setting. Refer to the GP-Pro EX Reference Manual for the reading area size.

    Cf.   GP-Pro EX Reference Manual "LS Area (only for direct access method Area)"

- 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 Type & Address" for the address type of the data display or other devices.

7.1   SDC10

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.2   SDC15 /SDC 25/SDC26 / SDC35/SDC36

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.3   SDC20/SDC21

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.4   SDC30/SDC31

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.5   SDC40A

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.6   SDC40B

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.7　　　SDC40G

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.8　　　SDC45/46

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.9　　　DMC10

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.10　　　DMC50

Device	Device Name	Device Code (HEX)	Address Code
Data	000	0080	Word Address
Data	001	0081	Word Address
Data	002	0082	Word Address
Data	021	00A1	Word Address
Data	022	00A2	Word Address
Data	023	00A3	Word Address
Data	041	00C1	Word Address
Data	045	00C5	Word Address
Data	061	00E1	Word Address
Data	071	00F1	Word Address
Data	074	00F4	Word Address
Data	0A1	0121	Word Address
Data	0A2	0122	Word Address
Data	0A3	0123	Word Address
Data	0C1	0141	Word Address
Data	0C3	0143	Word Address

Continued to next page.

Device	Device Name	Device Code (HEX)	Address Code
Data	0C4	0144	Word Address
Data	0C5	0145	Word Address
Data	0C6	0146	Word Address
Data	0E1	0161	Word Address
Data	0E2	0162	Word Address
Data	0E3	0163	Word Address
Data	0E5	0165	Word Address
Data	0E6	0166	Word Address
Data	0E7	0167	Word Address
Data	0E8	0168	Word Address
Data	0F1	0171	Word Address
Data	0F2	0172	Word Address
Data	0F3	0173	Word Address
Data	103	0183	Word Address
Data	201	0281	Word Address
Data	202	0282	Word Address
Data	203	0283	Word Address
Data	211	0291	Word Address
Data	212	0292	Word Address
Data	213	0293	Word Address
Data	214	0294	Word Address
Data	234	02B4	Word Address
Data	235	02B5	Word Address
Data	236	02B6	Word Address
Data	241	02C1	Word Address
Data	242	02C2	Word Address
Data	243	02C3	Word Address
Data	301	0381	Word Address
Data	801 802 ..... 9FE 9FF	0881 0882 ..... 0A7E 0A7F	Word Address

Device	Device Name	Device Code (HEX)	Address Code
Data	C00	0C80	Word Address
Data	C01 C02 ..... C62 C63	0C81 0C82 ..... 0CE2 0CE3	Word Address
Data	CF1	0D71	Word Address

7.11   DCP31/DCP32

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.12   DCP551

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.13   DCP552

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.14   CMC10B

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.15   PBC

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.16   CMS/CMF015

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.17　CMQ-V

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.18　MPC

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.19　MVF

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.20　CML/CMF050

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.21　AUR350C

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.22　AUR450C

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	Word Address

7.23　RX

Device	Device Name	Device Code (HEX)	Address Code
Data	---	0080	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 an error has occurred. Device name is the title of the External Device set with GP-Pro EX. (Initial value [PLC1])
Error Message	Displays messages related to an error that has occurred.
Error Occurrence Area	Displays the IP address or device address of the External Device where an error has occurred, or error codes received from the External Device. **NOTE** • IP address is displayed as "IP address (Decimal): MAC address (Hex)". • Device address is displayed as "Address: Device address". • Received error codes are displayed 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 "Display-related errors" in "Maintenance/Troubleshooting Guide" for details on the error messages common to the driver.

■ Notes on Using the Device Monitor

The External Device has inaccessible areas.

If you attempt to display a range that includes inaccessible areas using the bit or word batch monitor, an error may occur and no data may be displayed.

In this case, set the address you want to display as the first one, or use the random monitor.