Uni-Telway Driver

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Introduction

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

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

1	System Configuration This section shows the types of External Devices which can be connected and SIO type.	☞"1 System Configuration" (page 3)
2	Selection of External Device Select a model (series) of the External Device to be connected and connection method.	☞"2 Selection of External Device" (page 9)
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 10)
4	Setup Items This section describes communication setup items on the Display. Set communication settings of Display with GP-Pro Ex or in offline mode.	☞"4 Setup Items" (page 25)
5	Cable Diagram This section shows cables and adapters for connecting the Display and the External Device.	☞"5 Cable Diagram" (page 31)

Operation

1 System Configuration

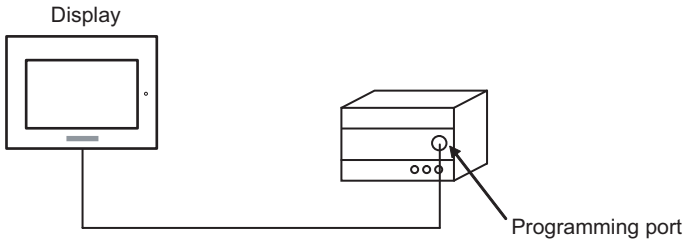
The system configuration in the case when the External Device of Schneider Electric SA and the Display are connected is shown.

Series	CPU	Link I/F	SIO Type	Setting Example	Cable Diagram
Nano	TSX 07 3L □ □ 28 TSX 07 30 10 □ □ TSX 07 31 16 □ □ TSX 07 31 24 □ □ TSX 07 32 □ □ 28 TSX 07 33 □ □ 28	Programming port on CPU	RS232C	Setting Example 1 (page 10)	Cable Diagram 1 (page 31)
			RS422/485 (2wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 32)
		Accessory box AUX or TER port on TSX P ACC 01	RS422/485 (2wire)	Setting Example 2 (page 13)	Cable Diagram 2 (page 32)
		Accessory box TSX SCA 62	RS422/485 (2wire)	Setting Example 2 (page 13)	Cable Diagram 3 (page 39)
Micro	TSX 37 05 028DR1 TSX 37 08 056DR1 TSX 37 10 128DT1 TSX 37 10 128DR1 TSX 37 10 128DTK1 TSX 37 10 164DTK1 TSX 37 10 028AR1 TSX 37 10 028DR1 TSX 37 21 101 TSX 37 22 101 TSX 37 21 001 TSX 37 22 001	TER port on CPU	RS232C	Setting Example 3 (page 16)	Cable Diagram 1 (page 31)
			RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 2 (page 32)
		AUX port on CPU	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 2 (page 32)
		Accessory box AUX or TER port on TSX P ACC 01	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 2 (page 32)
		Accessory box TSX SCA 62	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 3 (page 39)
	TSX 37 21 101 TSX 37 22 101 TSX 37 21 001 TSX 37 22 001	PCMCIA card TSX SCP 114 for RS485	RS422/485 (2wire)	Setting Example 5 (page 22)	Cable Diagram 4 (page 46)
Premium	TSX P57 103M TSX P57 153M TSX P57 203M TSX P57 253M TSX P57 303M TSX P57 353M TSX P57 453M	TER port on CPU	RS232C	Setting Example 3 (page 16)	Cable Diagram 1 (page 31)
			RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 2 (page 32)
		AUX port on CPU	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 2 (page 32)
		Accessory box AUX or TER port on TSX P ACC 01	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 2 (page 32)
		Accessory box TSX SCA 62	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 3 (page 39)
		PCMCIA card TSX SCP 114 for RS485	RS422/485 (2wire)	Setting Example 5 (page 22)	Cable Diagram 4 (page 46)
		Communication Module TSX SCY 21601 for RS485	RS422/485 (2wire)	Setting Example 4 (page 19)	Cable Diagram 5 (page 58)

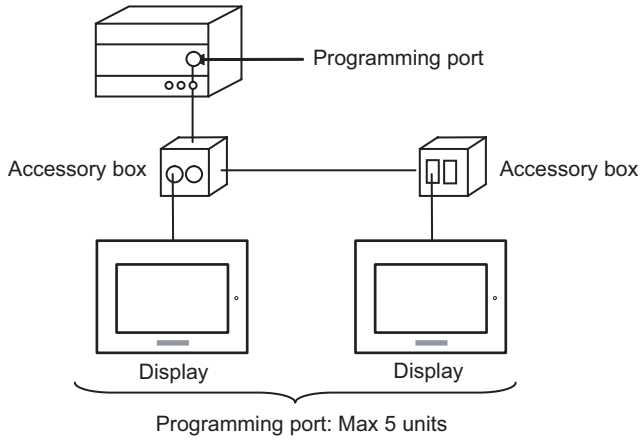
■ Connection Configuration

◆ Nano Series

- 1:1 Connection



- n:1 Connection



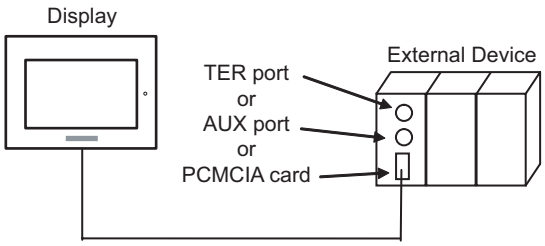
NOTE

- When LT-4*01TM is included in the connection configuration, Polarization resistance of the LT-4*01TM is set to stabilize a signal level in the communication line. (Polarization resistance is different from terminal resistance.)
  - When one LT-4*01TM is used, set “560” (default).
  - When two or more LT-4*01TMs are used, set “560” (default) for one of the LT-4*01TM and set “None” for the other.
- Polarization resistance can be set in offline mode only. To display the setup screen, touch [Device/PLC Adjust] of the [Peripheral Settings] tab in the offline mode.

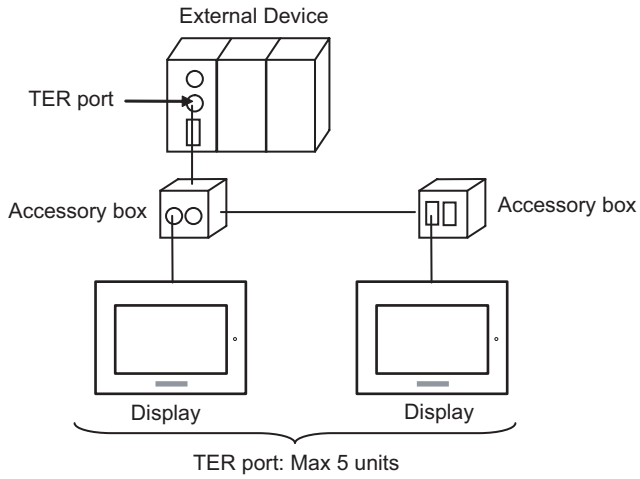
◆ Micro Series

- 1:1 Connection

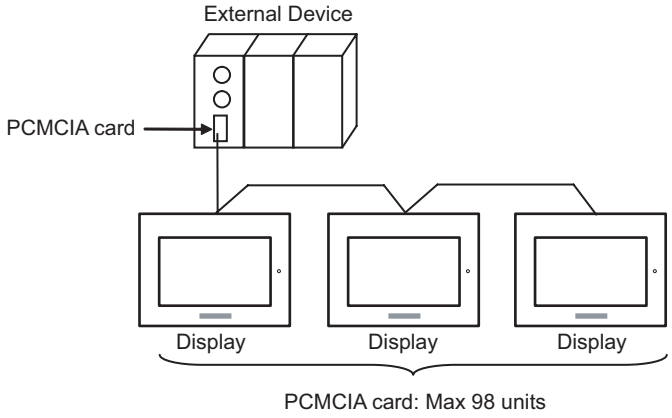
You can connect the display to TER port, AUX port or PCMCIA card. Simultaneous connection is also available.



- n:1 Connection (when using accessory box)



- n:1 Connection (when using PCMCIA card for RS485)



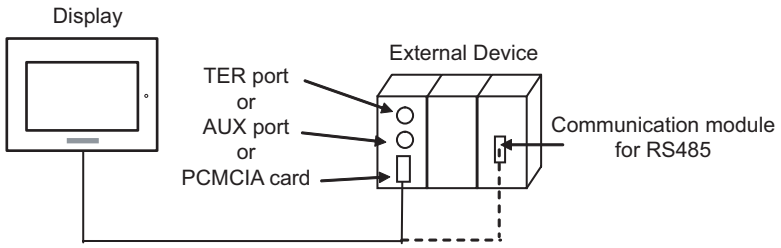
NOTE

- When LT-4*01TM is included in the connection configuration, Polarization resistance of the LT-4*01TM is set to stabilize a signal level in the communication line. (Polarization resistance is different from terminal resistance.)
  - When one LT-4*01TM is used, set “560” (default).
  - When two or more LT-4*01TMs are used, set “560” (default) for one of the LT-4*01TM and set “None” for the other.
- Polarization resistance can be set in offline mode only. To display the setup screen, touch [Device/PLC Adjust] of the [Peripheral Settings] tab in the offline mode.

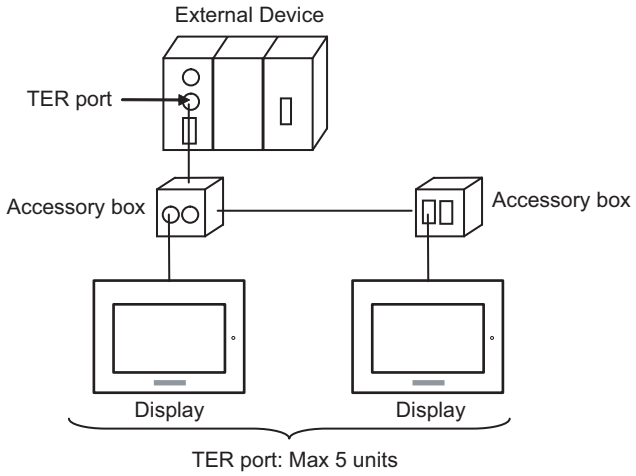
◆ Premium Series

- 1:1 Connection

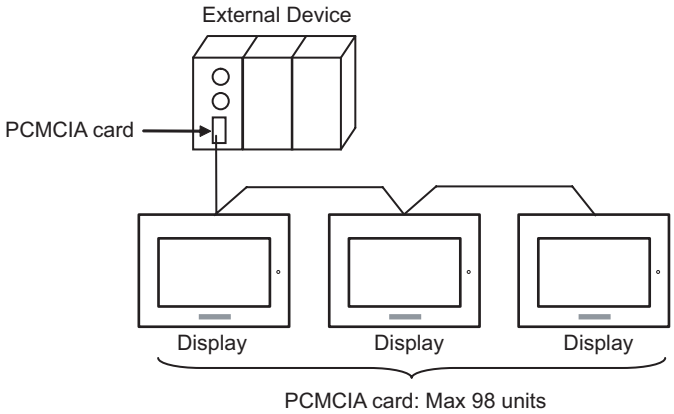
You can connect the display to TER port, AUX port, PCMCIA card or communication module. Simultaneous connection is also available.



- n:1 Connection (when using accessory box)



- n:1 Connection (when using PCMCIA card for RS485)



NOTE

- When LT-4*01TM is included in the connection configuration, Polarization resistance of the LT-4*01TM is set to stabilize a signal level in the communication line. (Polarization resistance is different from terminal resistance.)
  - When one LT-4*01TM is used, set “560” (default).
  - When two or more LT-4*01TMs are used, set “560” (default) for one of the LT-4*01TM and set “None” for the other.
- Polarization resistance can be set in offline mode only. To display the setup screen, touch [Device/PLC Adjust] of the [Peripheral Settings] tab in the offline mode.

■ 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*1	RS (RTS) Auto control mode: Disabled
10	OFF*1	

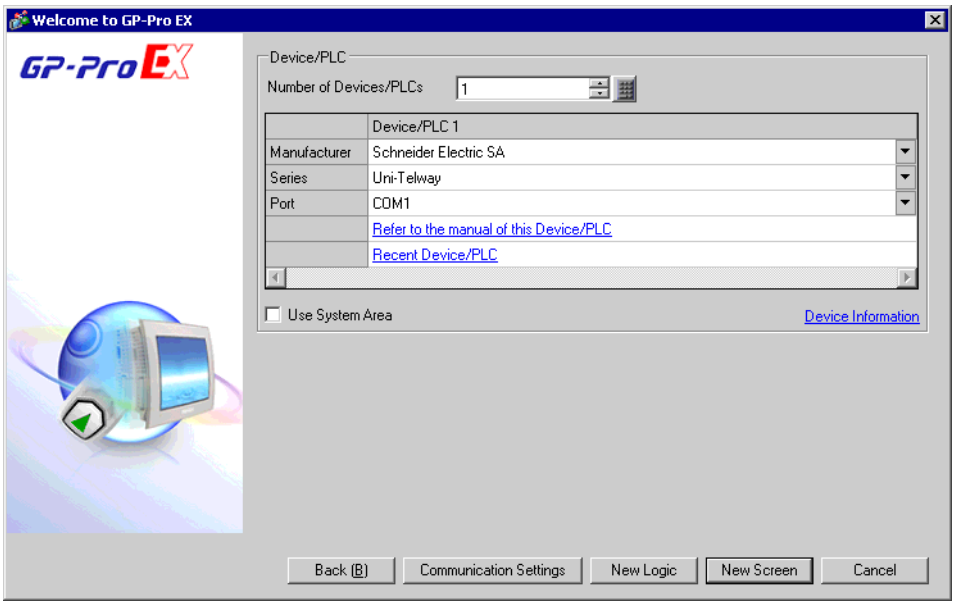
*1 When the connection configuration is the n:1, turn ON the set value.

DIP switch setting: RS-422/485 (2 wire)

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

2 Selection of External Device

Select the External Device to be connected to the Display.



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

3 Example of Communication Setting

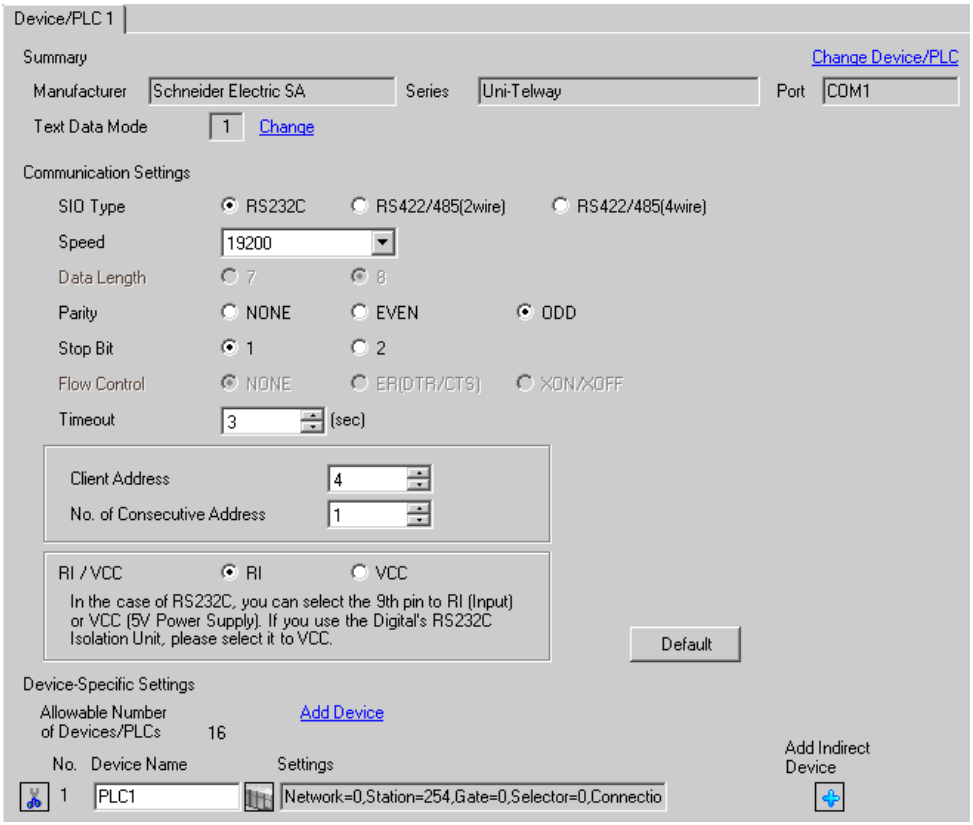
Examples of communication settings of the Display and the External Device, recommended by Pro-face, are shown.

3.1 Setting Example 1

■ Setting of GP-Pro EX

◆ Communication Settings

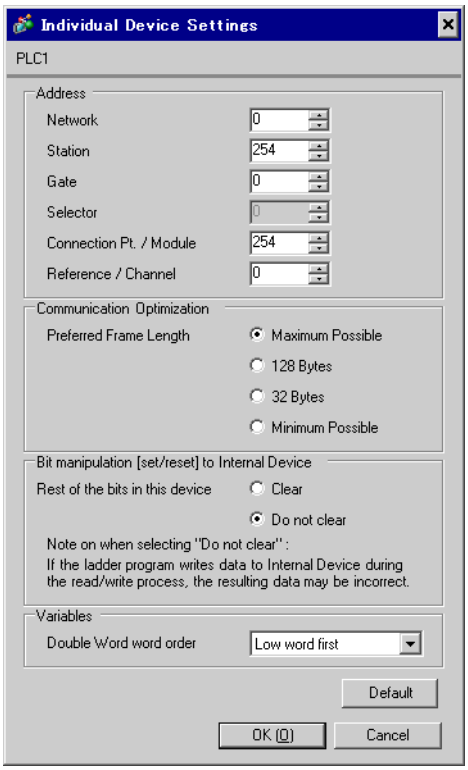
To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].



◆ Device Setting

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

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



■ Setting of External Device

Use the ladder software "PL7-07" for communication settings on External Device.

Select [Programming Port] from [Configuration] in PL7-07 and perform the communication settings as below.

Setup Items	Setup Description
Type	UNI-TELWAY Master
Bit/sec	19200
DateBits	8 bits
ParityOdd	Odd
Stop Bits	1 bit
Number of Slaves	8

◆ Notes

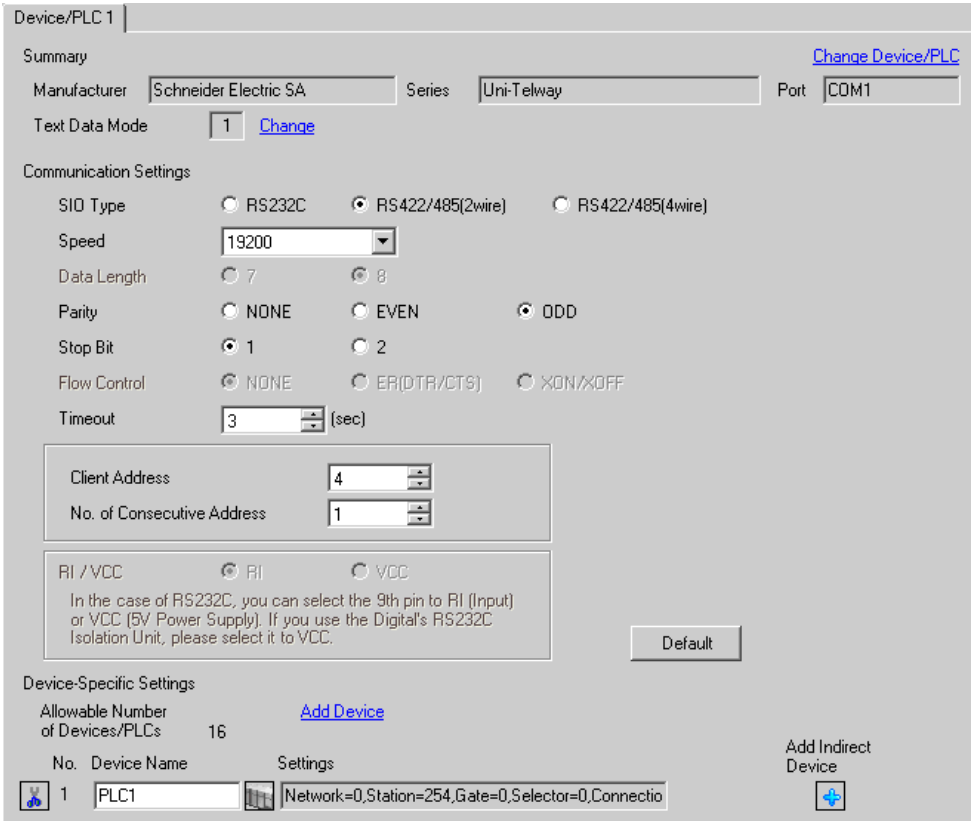
- Do not set the address which exceeds "Number of Slaves" on External Device in Server Address and Clients Address. If you set the address which exceeds "Number of Slaves" in Server Address and Clients Address, timeout error will occur, which disables the communication with the External Device. In addition, when you connect many client devices (Display/External Device) on the same serial network, set the longer timeout on the Display.

3.2 Setting Example 2

■ Setting of GP-Pro EX

◆ Communication Settings

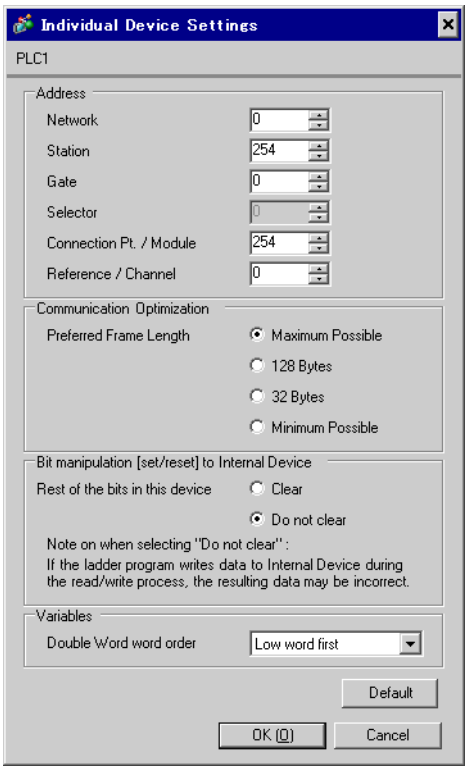
To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].



◆ 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.



■ Setting of External Device

Use the ladder software "PL7-07" for communication settings on External Device.

Select [Programming Port] from [Configuration] in PL7-07 and perform the communication settings as below.

Setup Items	Setup Description
Type	UNI-TELWAY Master
Bit/sec	19200
DateBits	8 bits
ParityOdd	Odd
Stop Bits	1 bit
Number of Slaves	8

◆ Notes

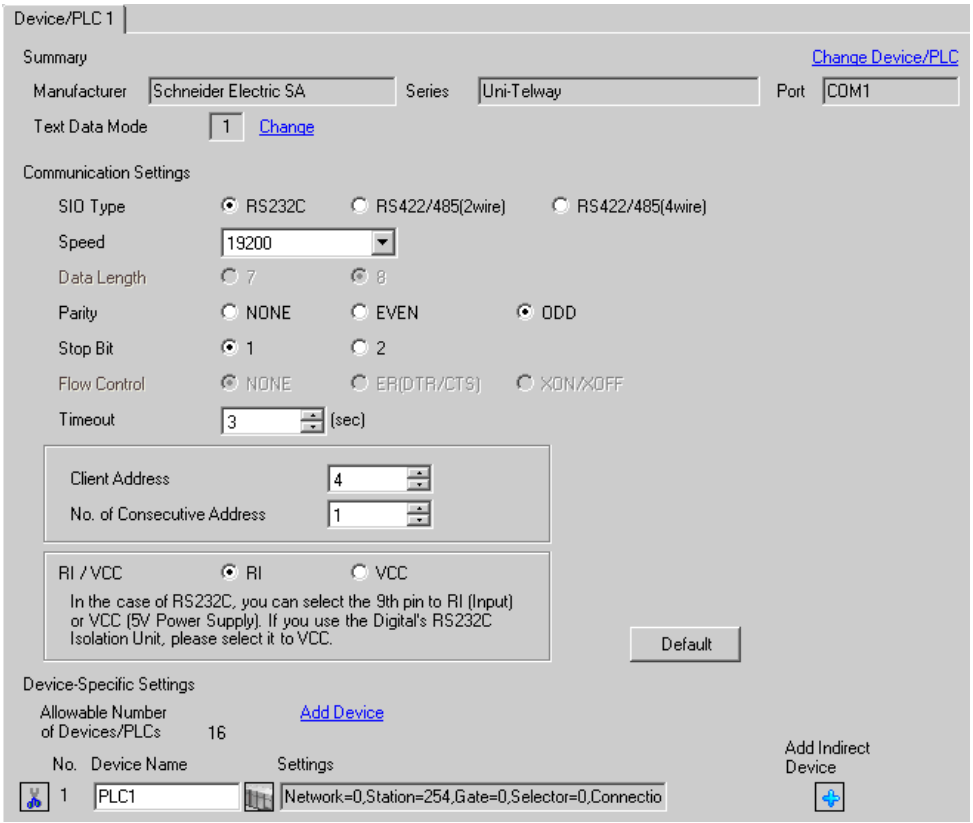
- Do not set the address which exceeds "Number of Slaves" on External Device in Server Address and Clients Address. If you set the address which exceeds "Number of Slaves" in Server Address and Clients Address, timeout error will occur, which disables the communication with the External Device. In addition, when you connect many client devices (Display/External Device) on the same serial network, set the longer timeout on the Display.

3.3 Setting Example 3

■ Setting of GP-Pro EX

◆ Communication Settings

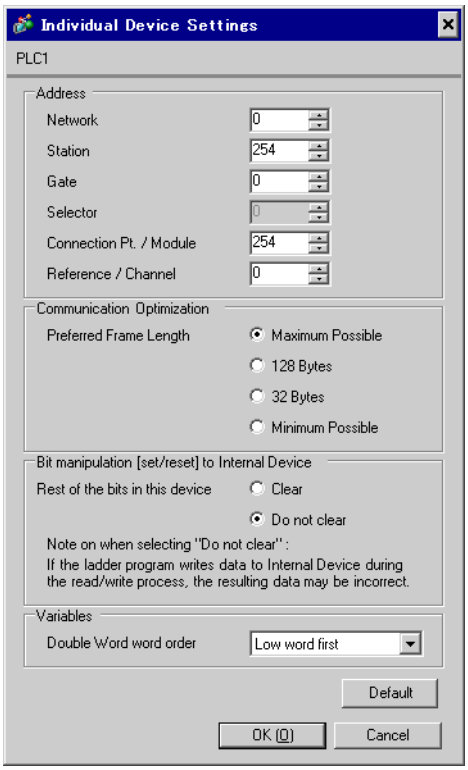
To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].



◆ 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] .

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



■ Setting of External Device

Use the ladder software "PL7-07" for communication settings on External Device.
Go to [Configuration] in [Application Browser], [Hardware Configuration] and [Comm] in this order in "PL7-07", and perform the communication settings as below.

Setup Items	Setup Description
CHANNEL	CHANNEL 0
	UNI-TELWAY LINK
Type	Master
Trasmission Speed	19200
Data	8 bits
Parity	Odd
Stop	1 bit
Number of Slaves	8

◆ Notes

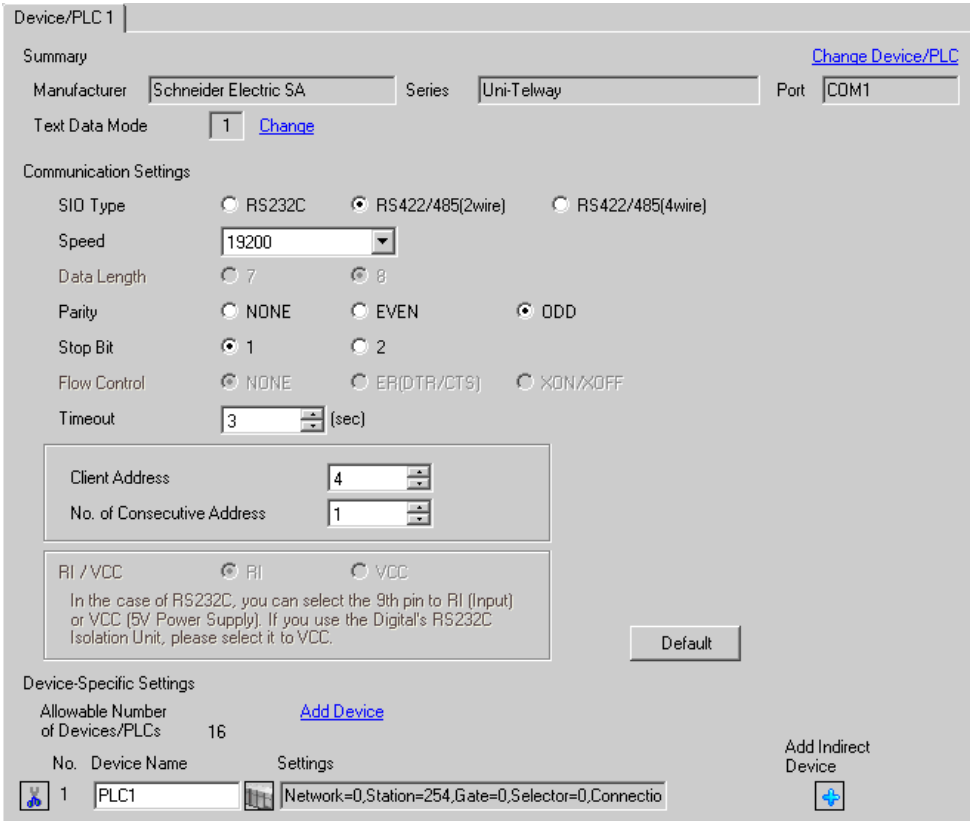
- Do not set the address which exceeds "Number of Slaves" on External Device in Server Address and Clients Address. If you set the address which exceeds "Number of Slaves" in Server Address and Clients Address, timeout error will occur, which disables the communication with the External Device. In addition, when you connect many client devices (Display/External Device) on the same serial network, set the longer timeout on the Display.

3.4 Setting Example 4

■ Setting of GP-Pro EX

◆ Communication Settings

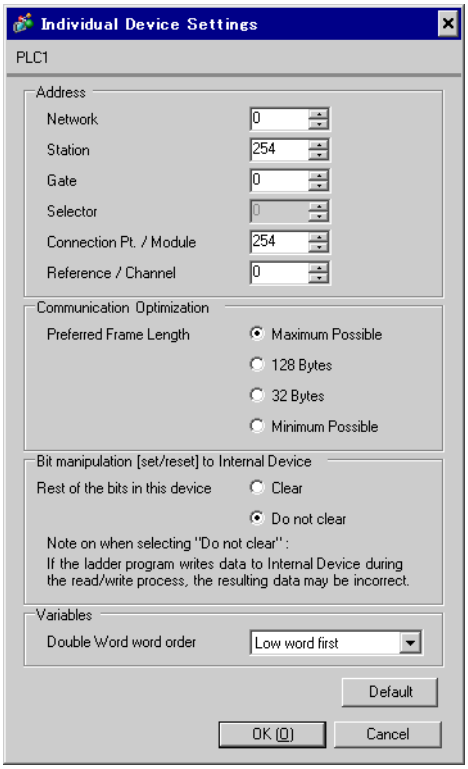
To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].



◆ 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] .

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



■ Setting of External Device

Use the ladder software "PL7-07" for communication settings on External Device.
Go to [Configuration] in [Application Browser], [Hardware Configuration] and [Comm] in this order in "PL7-07", and perform the communication settings as below.

Setup Items	Setup Description
CHANNEL	CHANNEL 0
	UNI-TELWAY LINK
Type	Master
Trasmission Speed	19200
Data	8 bits
Parity	Odd
Stop	1 bit
Number of Slaves	8

◆ Notes

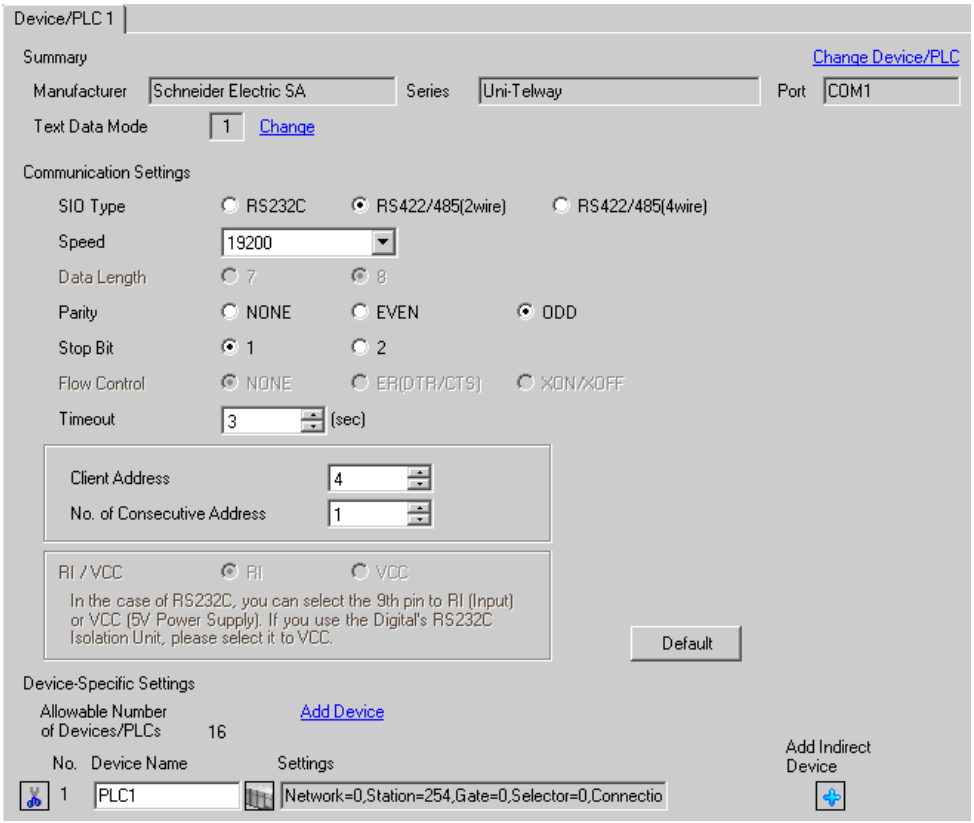
- Do not set the address which exceeds "Number of Slaves" on External Device in Server Address and Clients Address. If you set the address which exceeds "Number of Slaves" in Server Address and Clients Address, timeout error will occur, which disables the communication with the External Device. In addition, when you connect many client devices (Display/External Device) on the same serial network, set the longer timeout on the Display.

3.5 Setting Example 5

■ Setting of GP-Pro EX

◆ Communication Settings

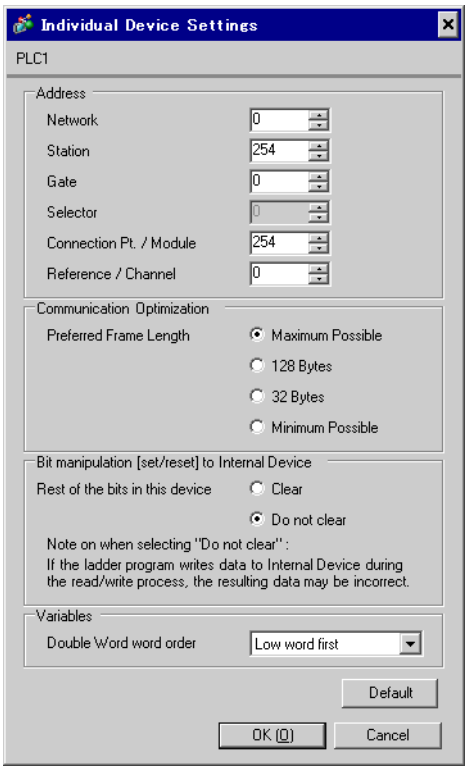
To display the setup screen, from the [Project] menu, point to [System Settings] and select [Device/PLC].



◆ Device Setting

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

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



■ Setting of External Device

Use the ladder software "PL7-07" for communication settings on External Device.
Go to [Configuration] in [Application Browser], [Hardware Configuration] and [Comm] in this order in "PL7-07", and perform the communication settings as below.

Setup Items	Setup Description
CHANNEL	CHANNEL 1
	TSX SCP 114 RS485 MP PCMCIA CARD
	UNI-TELWAY LINK
Type	Master
Trasmission Speed	19200
Data	8 bits
Parity	Odd
Stop	1 bit
Number of Slaves	8

◆ Notes

- Do not set the address which exceeds "Number of Slaves" on External Device in Server Address and Clients Address. If you set the address which exceeds "Number of Slaves" in Server Address and Clients Address, timeout error will occur, which disables the communication with the External Device. In addition, when you connect many client devices (Display/External Device) on the same serial network, set the longer timeout on the Display.

4 Setup Items

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

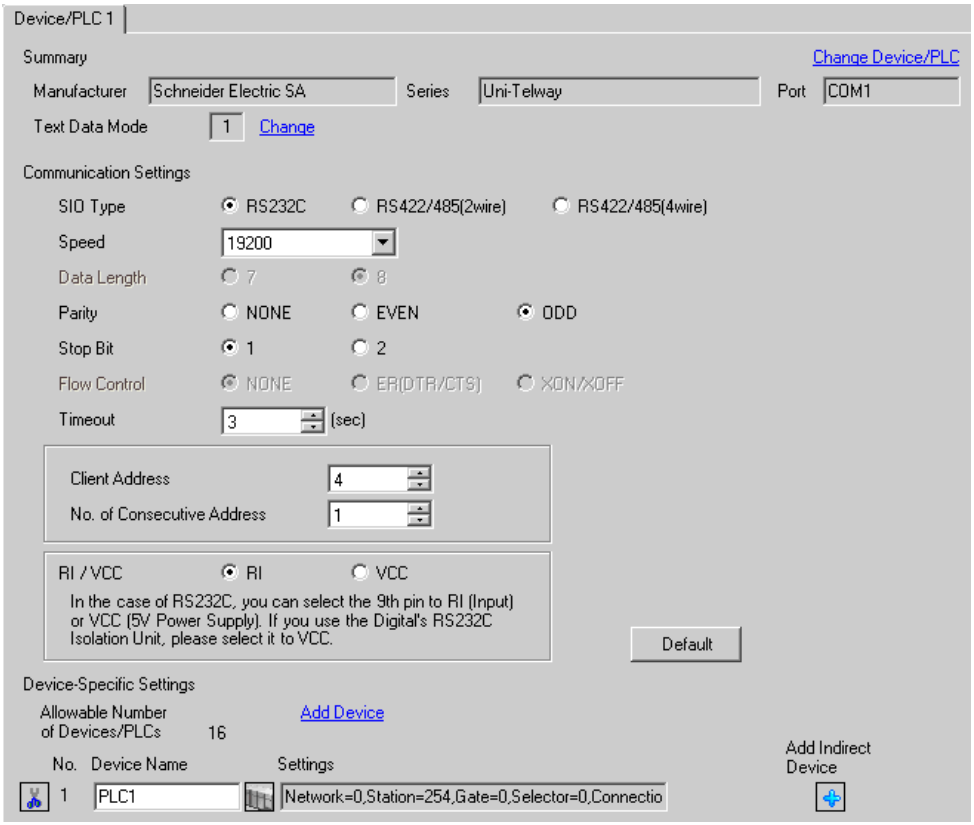
The setting of each parameter must be identical to that of External Device.

☞"3 Example of Communication Setting" (page 10)

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 to communicate with the External Device.
Speed	Select speed between the External Device and the Display.
Data Length	Display data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Display the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.

continued to next page

Setup Items	Setup Description
Client Address	Use an integer from 1 to 98 to enter the client address (source address).
No. of Consecutive Address*1	Use an integer 1 to 5 to enter the No. of consecutive address.
RI/VCC	You can switch RI/VCC of the 9th pin when you select RS232C for SIO type. It is necessary to change RI/5V by changeover switch of IPC when connect with IPC. Please refer to the manual of the IPC for more detail.

*1 Set the value of "Client address + Consecutive address number - 1" to 98 or less. Address which exceeds 98 is not used because it is not polled from the master.

NOTE

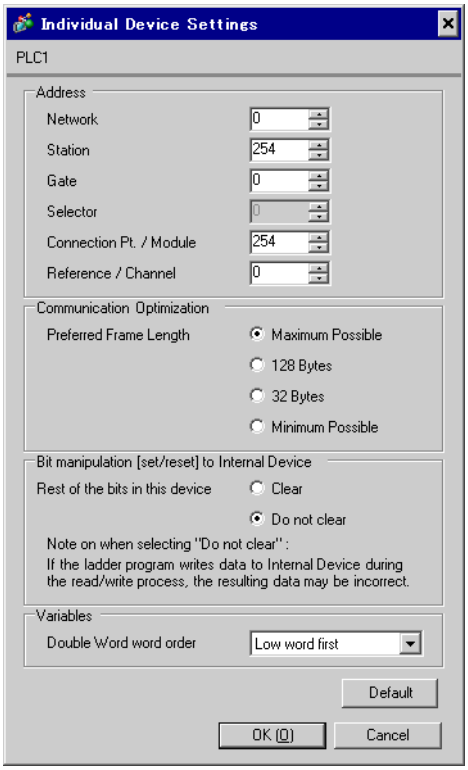
- Refer to the GP-Pro EX Reference Manual for Indirect Device.

  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
Network	Enter the Network No. of the destination External Device.
Station	Enter the station No. in the network.
Gate	Enter the gate No. in the network.
Selector	Enter the connected communication channel. This item becomes available only when the gate value is "8."
Connection Pt./Module	Enter the connection point in case of Level 6 Addressing, and enter the module number in case of Level 5 Addressing.
Reference/Channel	Enter the reference in case of Level 6 Addressing, and enter the channel in case of Level 5 Addressing.
Preferred Frame Length	Specify the frame length.
Rest of the bits in this device	From "Clear" or "Do not clear", select treatment of the rest of the bits in the same word when the bit manipulation to Internal Device is performed.
Double Word word order*1	Specify the word order when displaying the 16-bit device in 32-bit.

*1 When you change the word order, set all devices in the screen data again.

4.2 Setup Items in Offline Mode

NOTE

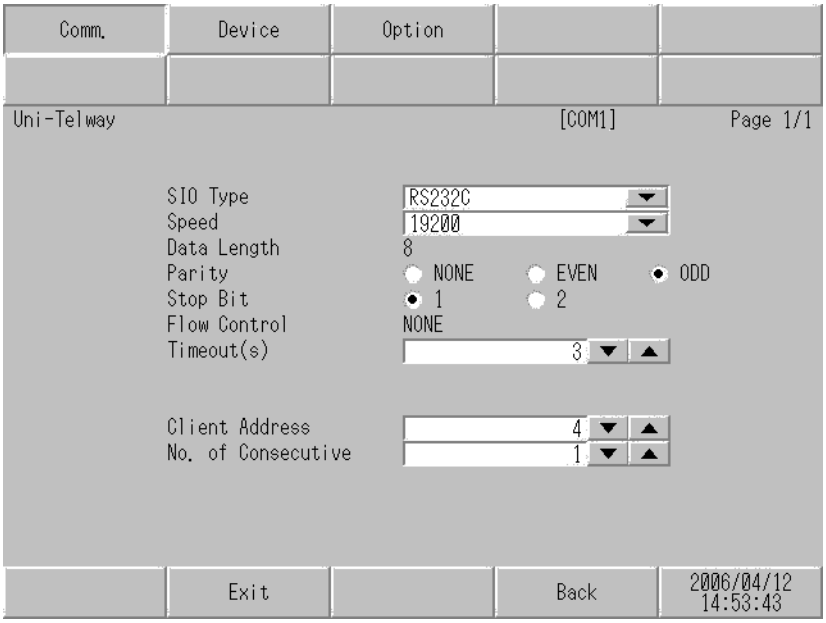
- Refer to the Maintenance/Troubleshooting guide for information on how to enter offline mode or about the operation.

  Cf. Maintenance/Troubleshooting Guide "Offline Mode"

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

■ Communication Settings

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



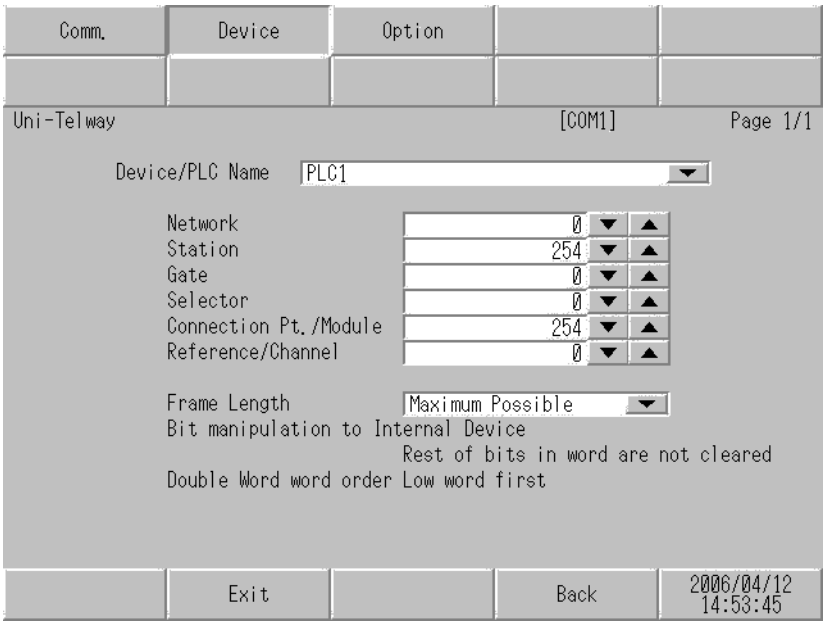
Setup Items	Setup Description
SIO Type	Select the SIO type to communicate with the External Device. **IMPORTANT** To make the communication settings correctly, confirm the serial interface specifications of Display unit for [SIO Type]. We cannot guarantee the operation if a communication type that the serial interface does not support is specified. For details concerning the serial interface specifications, refer to the manual for Display unit.
Speed	Select speed between the External Device and the Display.
Data Length	Display data length.
Parity	Select how to check parity.
Stop Bit	Select stop bit length.
Flow Control	Display the communication control method to prevent overflow of transmission and reception data.
Timeout	Use an integer from 1 to 127 to enter the time (s) for which the Display waits for the response from the External Device.
Client Address	Use an integer from 1 to 98 to enter the client address (source address).

Setup Items	Setup Description
No. of Consecutive*1	Use an integer 1 to 5 to enter the No. of consecutive address.

*1 Set the value of "Client address + Consecutive address number - 1" to 98 or less. Address which exceeds 98 is not used because it is not polled from the master.

■ Device Setting

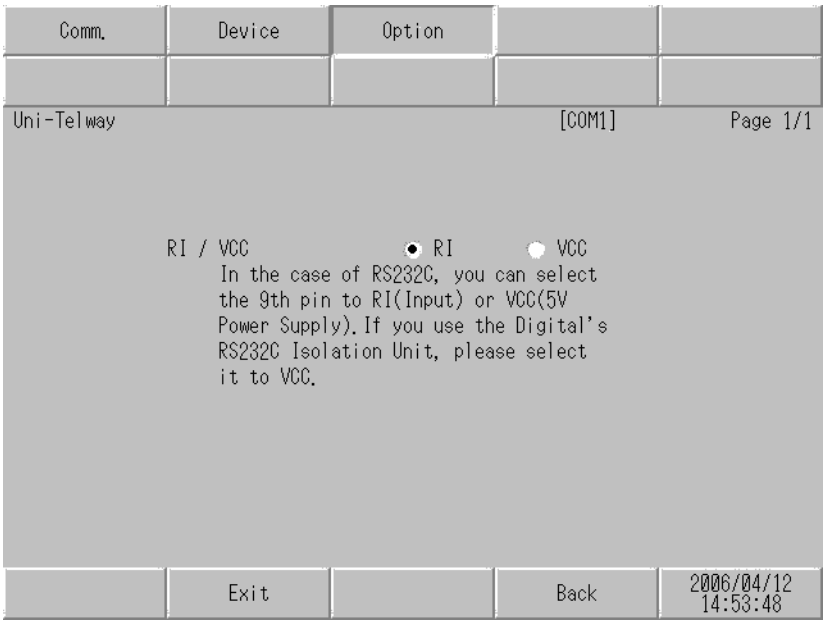
To display the setting screen, touch [Device/PLC Settings] from [Peripheral Settings]. Touch the External Device you want to set from the displayed list, and touch [Device].



Setup Items	Setup Description
Device/PLC Name	Select the External Device for device setting. Device name is a title of External Device set with GP-Pro EX.(Initial value [PLC1])
Network	Enter the Network No. of the destination External Device.
Station	Enter the station No. in the network.
Gate	Enter the gate No. in the network.
Selector	Enter the connected communication channel. This item becomes available only when the gate value is "8."
Connection Pt./Module	Enter the connection point in case of Level 6 Addressing, and enter the module number in case of Level 5 Addressing.
Reference/Channel	Enter the reference in case of Level 6 Addressing, and enter the channel in case of Level 5 Addressing.
Frame Length	Specify the frame length.
Bit manipulation to Internal Device	From "Rest of bits in word are cleared" or "Rest of bits in word are not cleared", display treatment of the rest of the bits in the same word when the bit manipulation to Internal Device is performed. (Not available to set in offline mode.)
Double Word word order	The word order when displaying the 16-bit device in 32-bit is displayed. You cannot change the word order in [Device Setting] in offline mode.

■ Option

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



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

NOTE

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

5 Cable Diagram

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

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

Cable Diagram 1

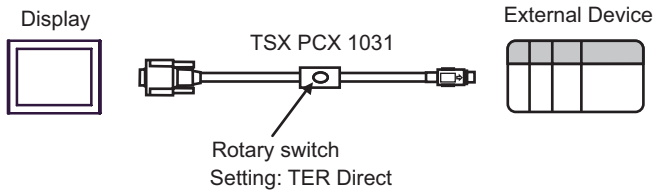
Display (Connection Port)	Cable		Notes
GP3000 (COM1) GP4000*1 (COM1) ST (COM1) LT3000 (COM1) IPC*2 PC/AT	1A	Cable by Schneider Electric Industries TSX PCX 1031 (2.5m)	
GP-4105 (COM1)	1B	User-created cable + Cable by Schneider Electric Industries TSX PCX 1031 (2.5m)	

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

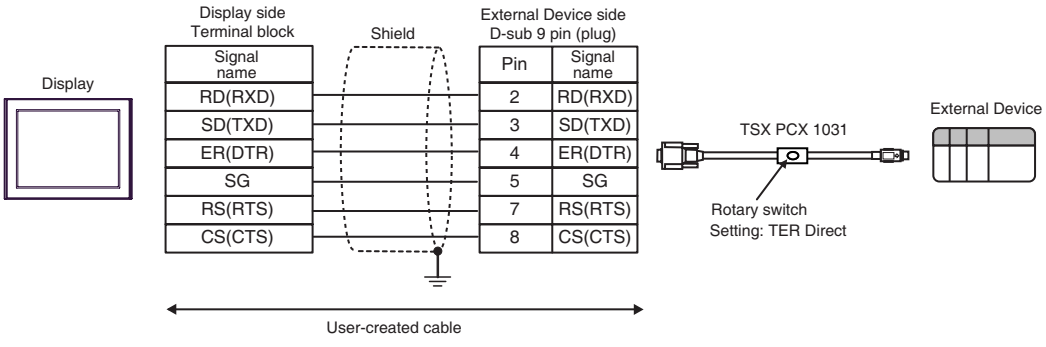
*2 Only the COM port which can communicate by RS-232C can be used.

☞■ IPC COM Port (page 7)

1A)



1B)



Cable Diagram 2

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

*1 All GP3000 models except AGP-3302B

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

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

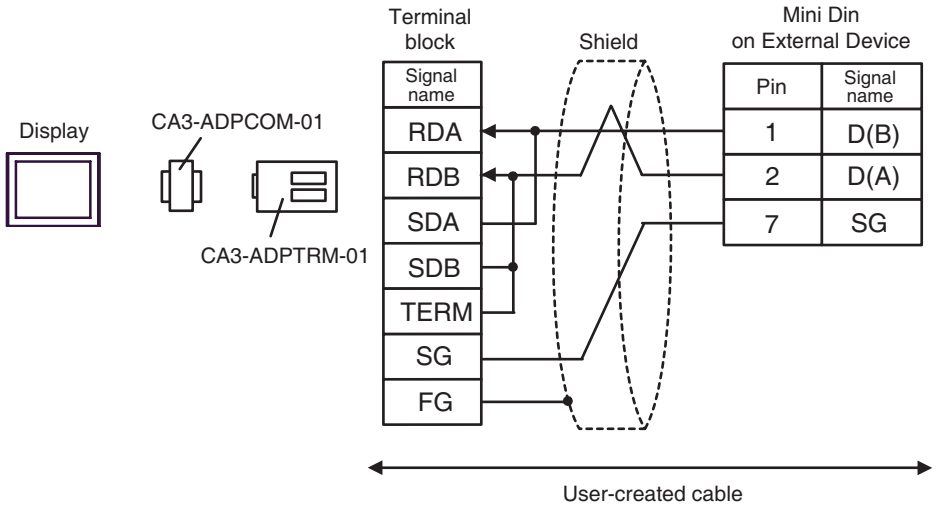
*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.
☞ ■ IPC COM Port (page 7)

*5 Except GP-4203T

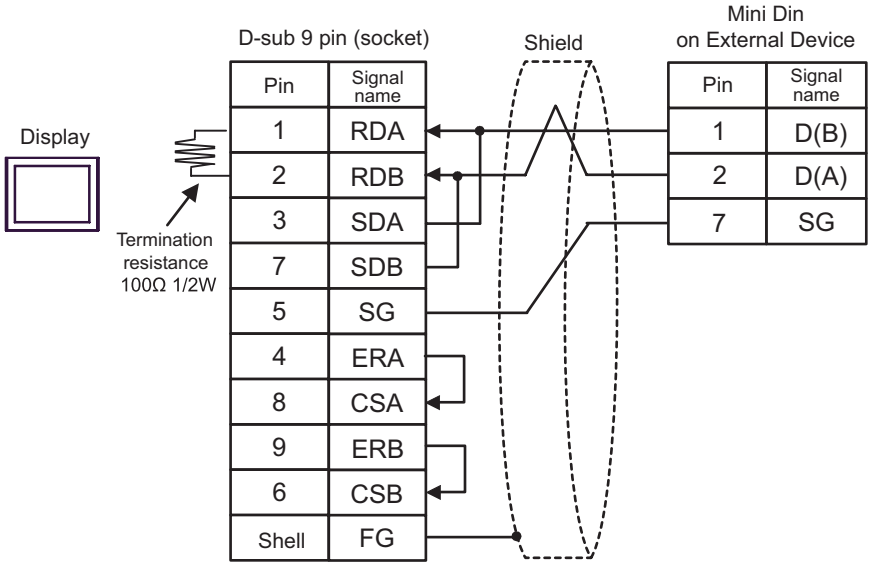
*6 All GP4000 models except GP-4100 series, GP-4*01TM, GP-4201T and GP-4*03T

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

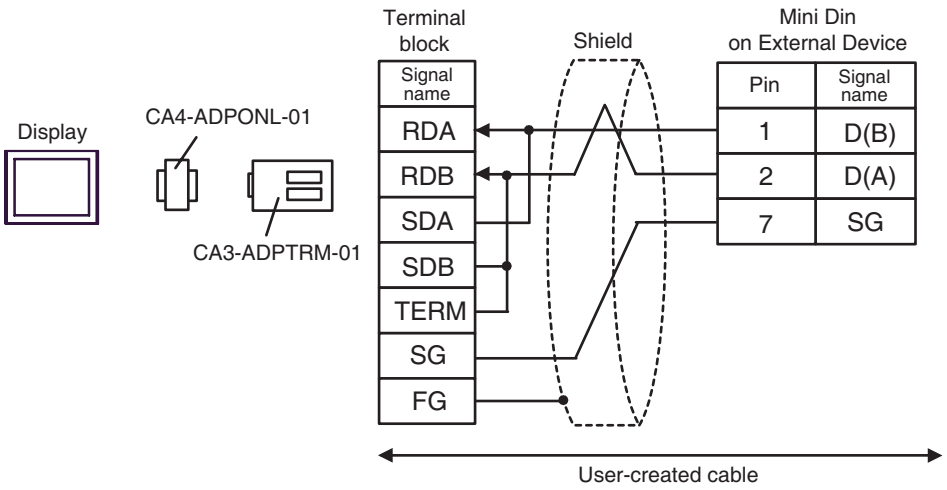
2A)


Terminal block
Shield
Mini Din on External Device
Signal name
Pin
Signal name
Display
CA3-ADPCOM-01
RDA
1
D(B)
RDB
2
D(A)
SDA
7
SG
SDB
TERM
SG
FG
CA3-ADPTRM-01
User-created cable

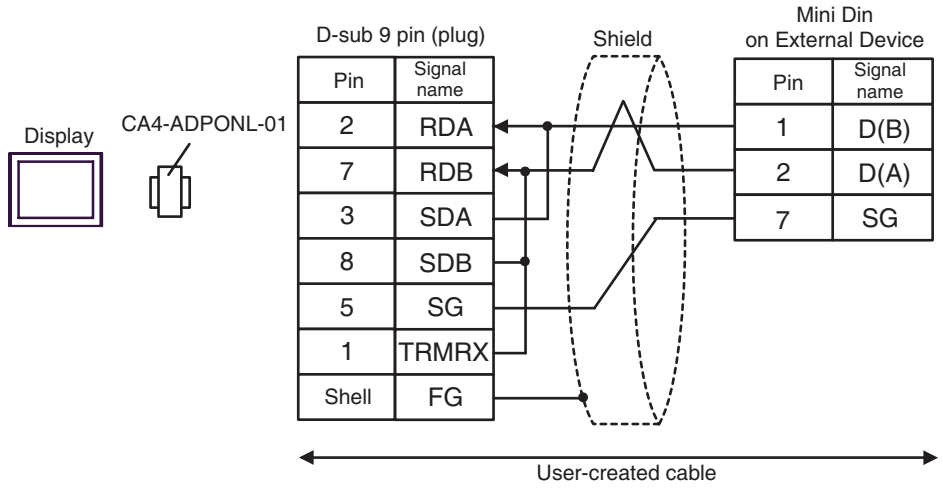
2B)


D-sub 9 pin (socket)
Shield
Mini Din on External Device
Pin
Signal name
Pin
Signal name
Display
1
RDA
1
D(B)
2
RDB
2
D(A)
3
SDA
7
SG
7
SDB
5
SG
4
ERA
8
CSA
9
ERB
6
CSB
Shell
FG
Termination resistance 100Ω 1/2W

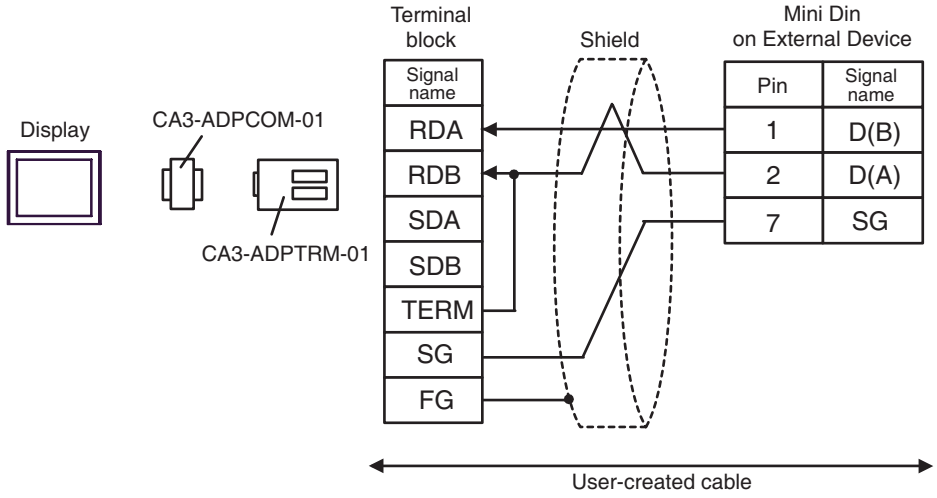
2C)


Terminal block
Shield
Mini Din on External Device
Signal name
RDA
RDB
SDA
SDB
TERM
SG
FG
Pin
Signal name
1
D(B)
2
D(A)
7
SG
Display
CA4-ADPONL-01
CA3-ADPTRM-01
User-created cable

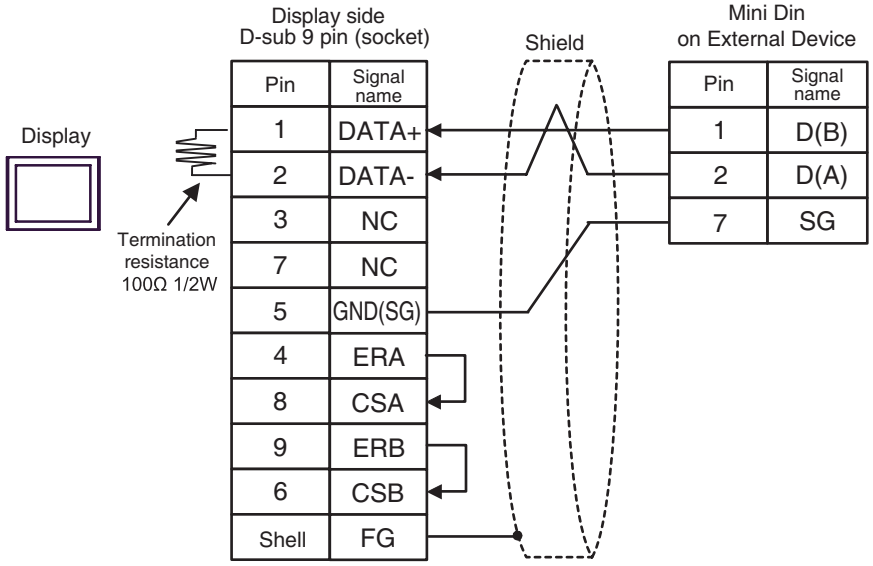
2D)


D-sub 9 pin (plug)
Shield
Mini Din on External Device
Pin
Signal name
2
RDA
7
RDB
3
SDA
8
SDB
5
SG
1
TRMRX
Shell
FG
Pin
Signal name
1
D(B)
2
D(A)
7
SG
Display
CA4-ADPONL-01
User-created cable

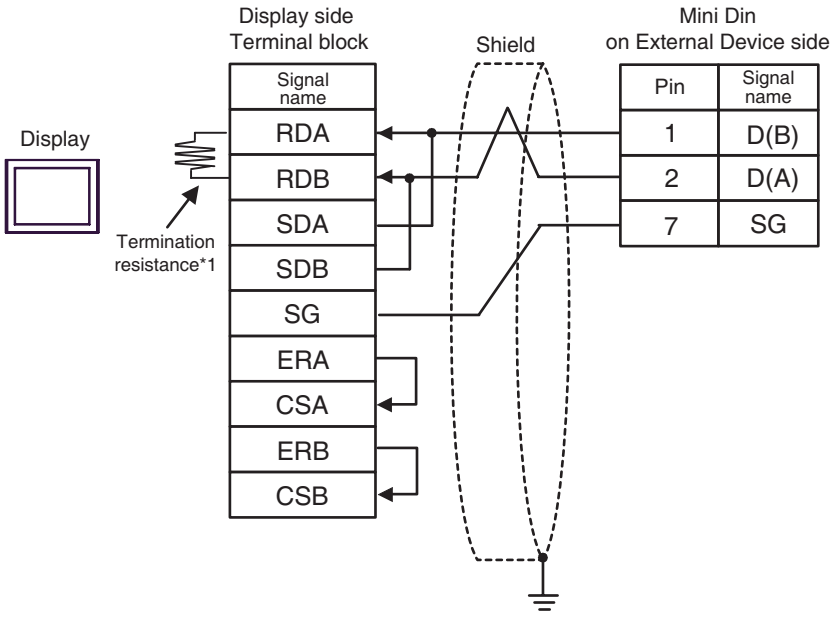
2E)


Terminal block
Shield
Mini Din on External Device
Signal name
Pin
Signal name
Display
CA3-ADPCOM-01
CA3-ADPTRM-01
RDA
RDB
SDA
SDB
TERM
SG
FG
1
2
7
D(B)
D(A)
SG
User-created cable

2F)


Display side D-sub 9 pin (socket)
Shield
Mini Din on External Device
Pin
Signal name
Display
Termination resistance 100Ω 1/2W
1
2
3
7
5
4
8
9
6
Shell
DATA+
DATA-
NC
NC
GND(SG)
ERA
CSA
ERB
CSB
FG
D(B)
D(A)
SG

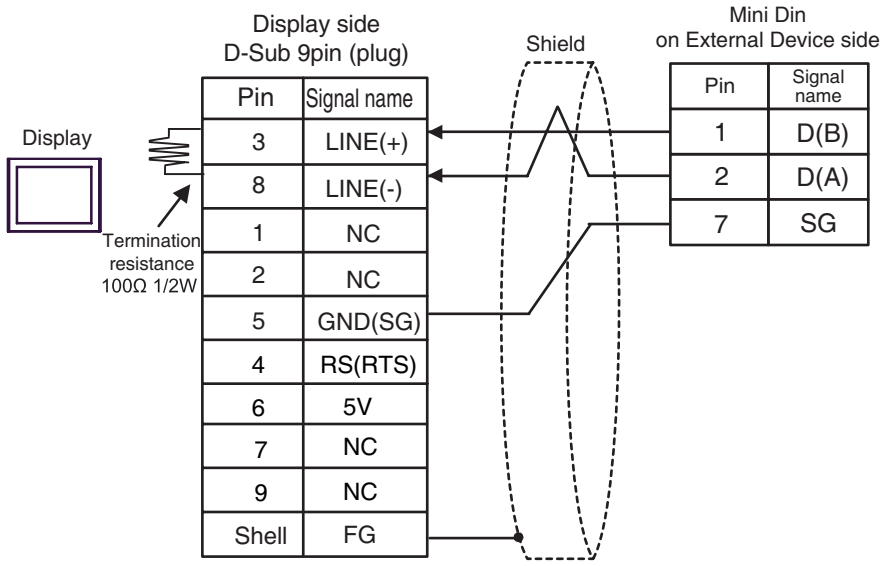
2G)



*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

2H)



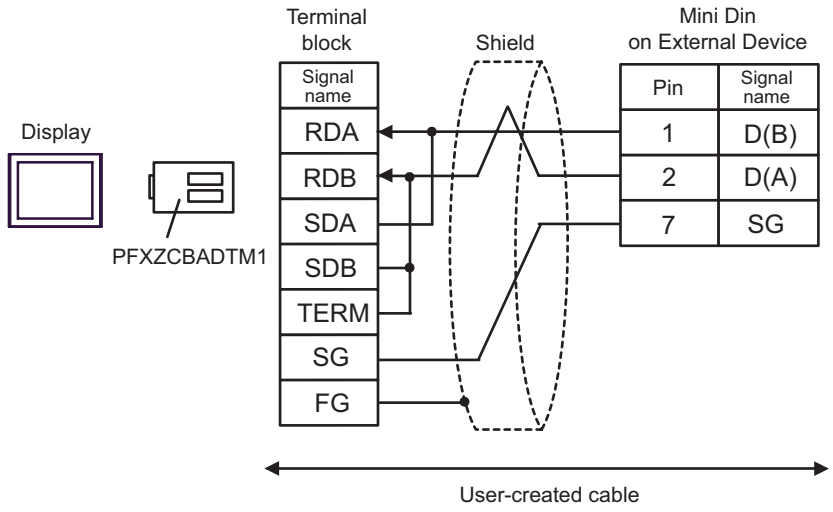
IMPORTANT

- 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.

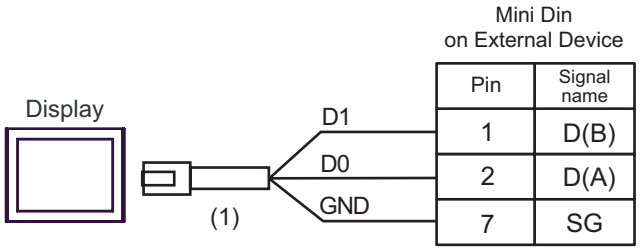
NOTE

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

2I)



2J)



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

Cable Diagram 3

Display (Connection Port)	Cable		Notes
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 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 10m or less.
	3B	User-created cable	
GP3000[*3] (COM2)	3C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	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 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	3F	User-created cable	
GP-4106 (COM1)	3G	User-created cable	
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	3H	User-created cable	
GP4000[*6] (COM2) GP-4201T (COM1)	3I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	
	3B	User-created cable	
LT-4*01TM (COM1)	3J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

*1 All GP3000 models except AGP-3302B

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

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

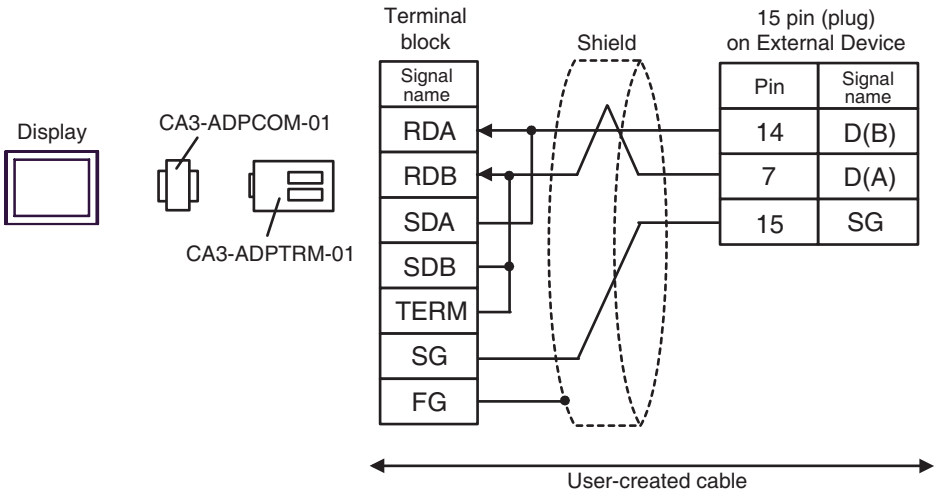
*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.
☞ ■ IPC COM Port (page 7)

*5 Except GP-4203T

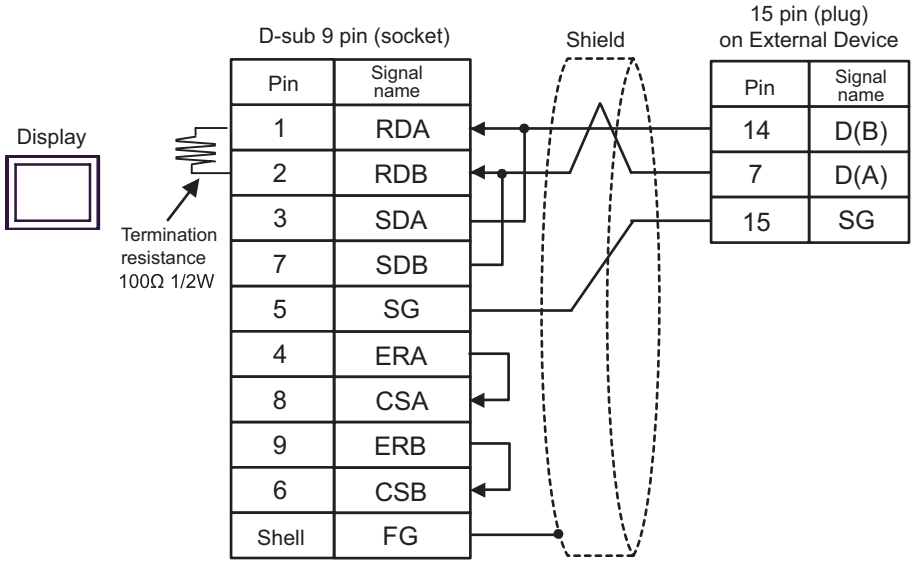
*6 All GP4000 models except GP-4100 series, GP-4*01TM, GP-4201T and GP-4*03T

*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.

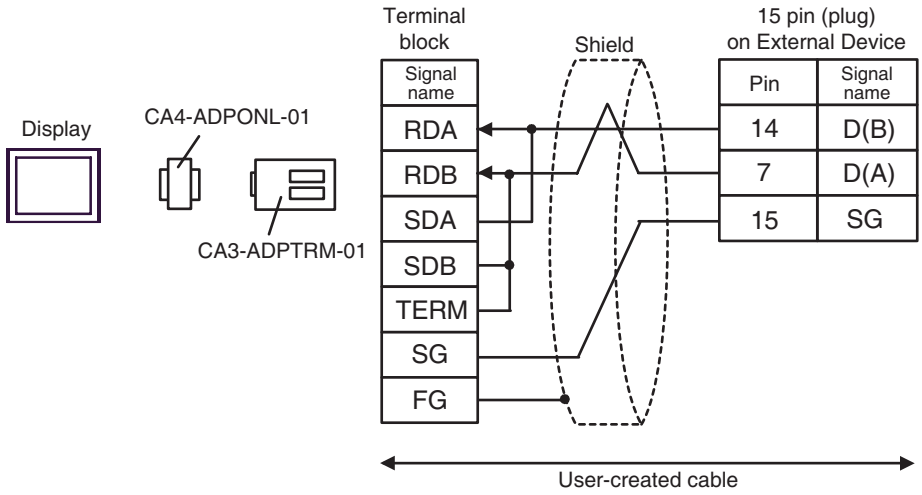
3A)


Terminal block
Shield
15 pin (plug) on External Device
Signal name
Pin
Signal name
Display
CA3-ADPCOM-01
CA3-ADPTRM-01
RDA
RDB
SDA
SDB
TERM
SG
FG
14
D(B)
7
D(A)
15
SG
User-created cable

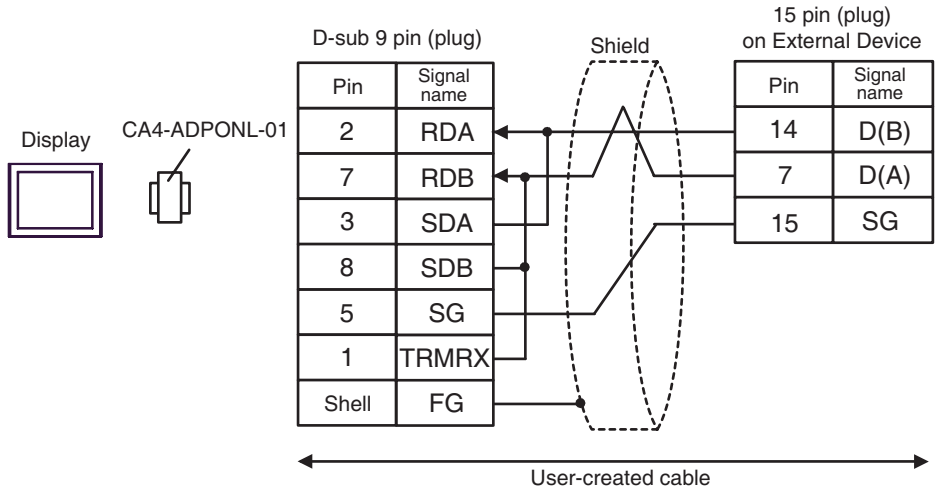
3B)


D-sub 9 pin (socket)
Shield
15 pin (plug) on External Device
Pin
Signal name
Display
Termination resistance 100Ω 1/2W
1
RDA
2
RDB
3
SDA
7
SDB
5
SG
4
ERA
8
CSA
9
ERB
6
CSB
Shell
FG
14
D(B)
7
D(A)
15
SG

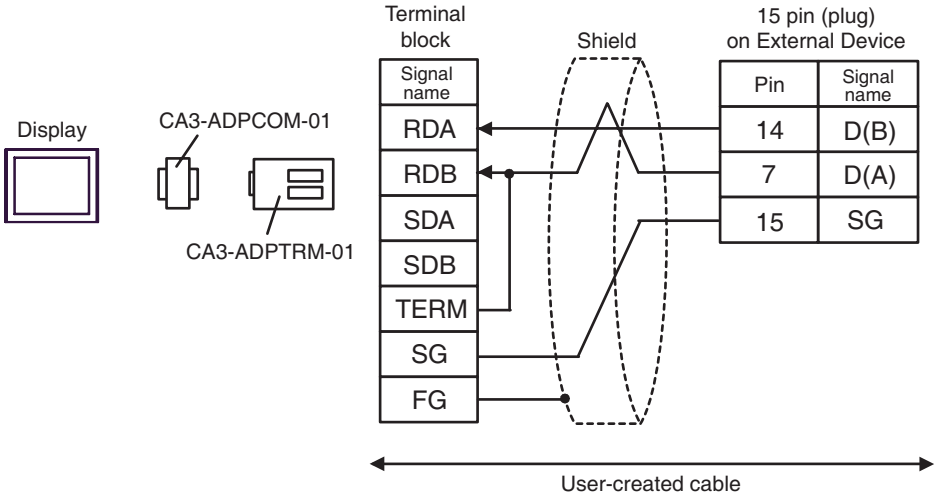
3C)


Terminal block
Shield
15 pin (plug) on External Device
Signal name
Pin
Signal name
Display
CA4-ADPONL-01
RDA
14
D(B)
RDB
7
D(A)
SDA
15
SG
CA3-ADPTRM-01
SDB
TERM
SG
FG
User-created cable

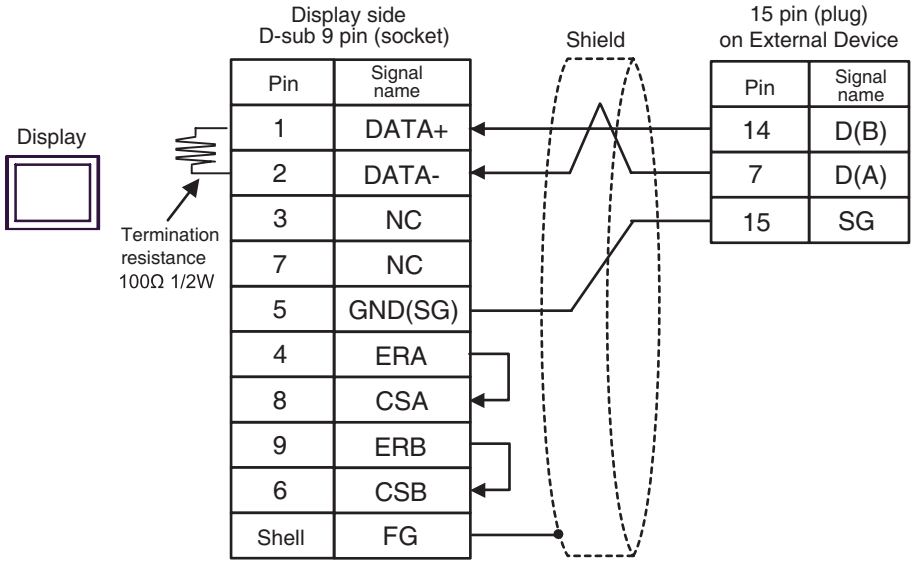
3D)


D-sub 9 pin (plug)
Shield
15 pin (plug) on External Device
Pin
Signal name
Pin
Signal name
Display
CA4-ADPONL-01
2
RDA
14
D(B)
7
RDB
7
D(A)
3
SDA
15
SG
8
SDB
5
SG
1
TRMRX
Shell
FG
User-created cable

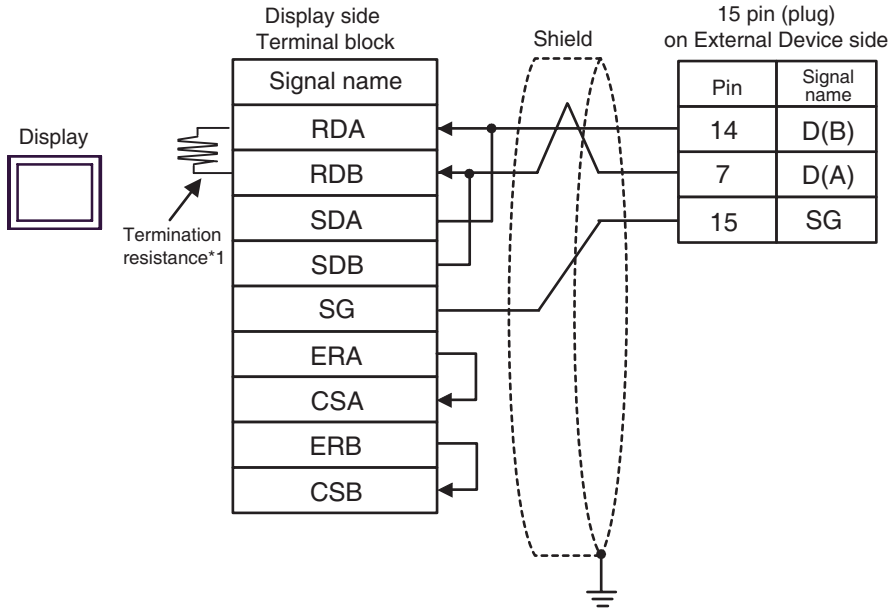
3E)


Terminal block
Shield
15 pin (plug) on External Device
Signal name
Pin
Signal name
Display
CA3-ADPCOM-01
CA3-ADPTRM-01
RDA
RDB
SDA
SDB
TERM
SG
FG
14
D(B)
7
D(A)
15
SG
User-created cable

3F)


Display side D-sub 9 pin (socket)
Shield
15 pin (plug) on External Device
Pin
Signal name
Display
Termination resistance 100Ω 1/2W
1
DATA+
2
DATA-
3
NC
7
NC
5
GND(SG)
4
ERA
8
CSA
9
ERB
6
CSB
Shell
FG
14
D(B)
7
D(A)
15
SG

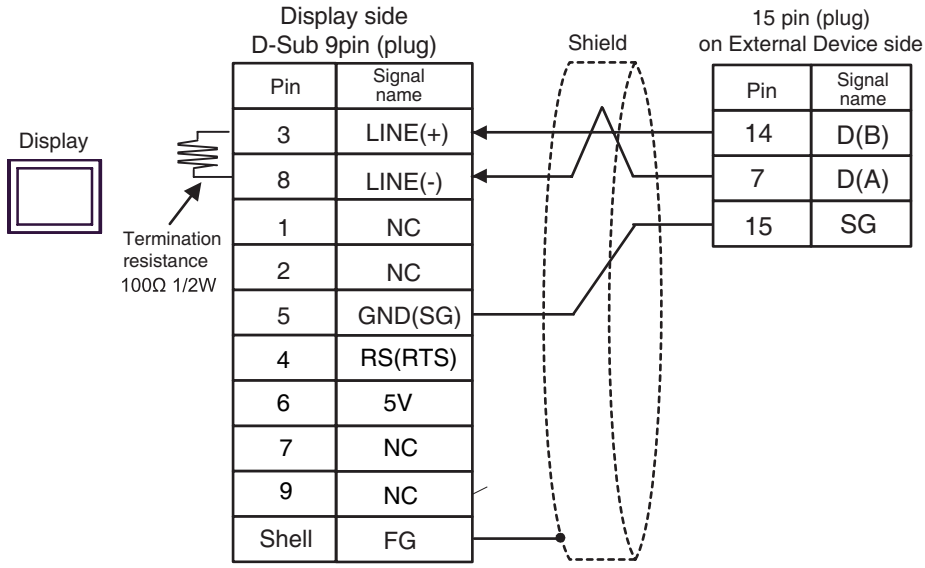
3G)



*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)



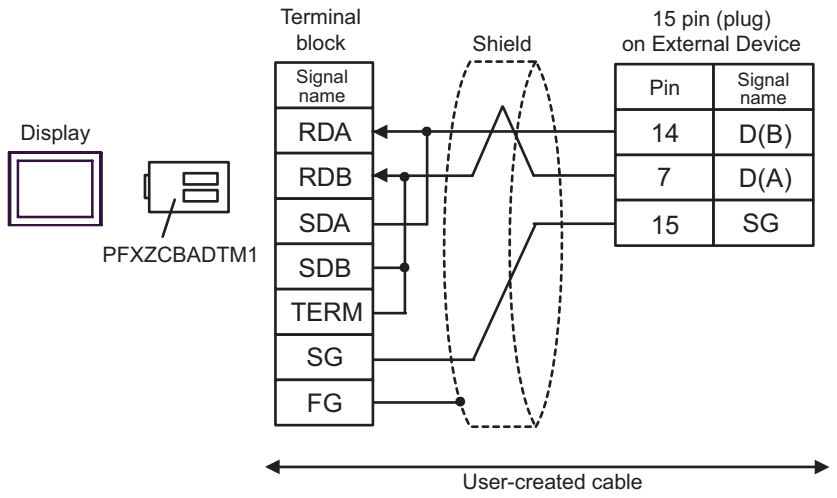
IMPORTANT

- 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.

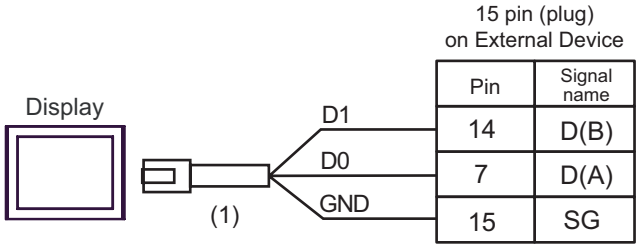
NOTE

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

3I)



3J)



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

Cable Diagram 4

Display (Connection Port)	Cable		Notes
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 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Uni-Telway connection cable TSX SCP CU 4030 (3m) by Schneider Electric Industries	The cable length must be 10m or less. For n:1 connection, you need your own cable for connection between the Displays.
	4B	User-created cable + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	
GP3000[*3] (COM2)	4C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	
	4D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	
IPC[*4]	4E	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + Uni-Telway connection cable TSX SCP CU 4030 (3m) by Schneider Electric Industries	
	4F	User-created cable + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	
GP-4106 (COM1)	4G	User-created cable + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	

Continues to the next page.

Display (Connection Port)	Cable		Notes
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	4H	User-created cable + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	The cable length must be 10m or less. For n:1 connection, you need your own cable for connection between the Displays.
GP4000[*6] (COM2) GP-4201T (COM1)	4I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + Uni-Telway connection cable TSX SCP CU 4030 (3m) by Schneider Electric Industries	
	4B	User-created cable + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	
LT-4*01TM (COM1)	4J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81 + Uni-Telway cable by Schneider Electric Industries TSX SCP CU 4030 (3m)	

*1 All GP3000 models except AGP-3302B

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

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

*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.
☞ ■ IPC COM Port (page 7)

*5 Except GP-4203T

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

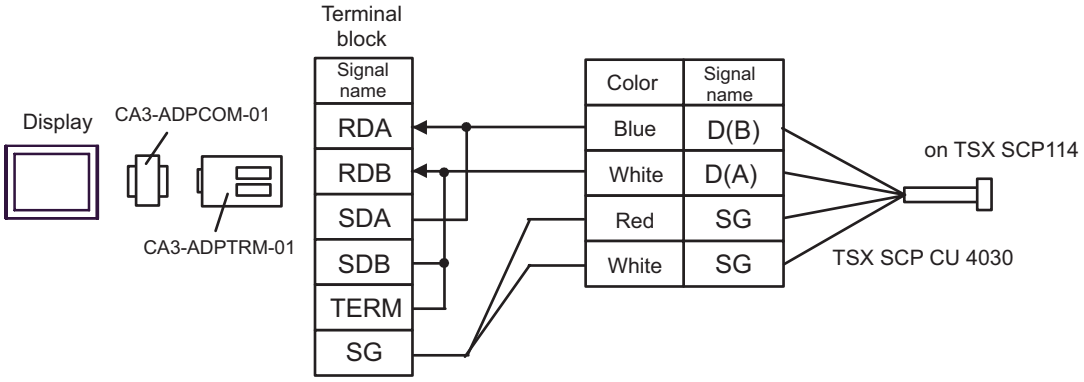
*7 When using a Terminal Block Conversion Adapter (CA3-ADPTRM-01) instead of the RS-422 Terminal Block Conversion Adapter, refer to Cable Diagram 4A.

NOTE

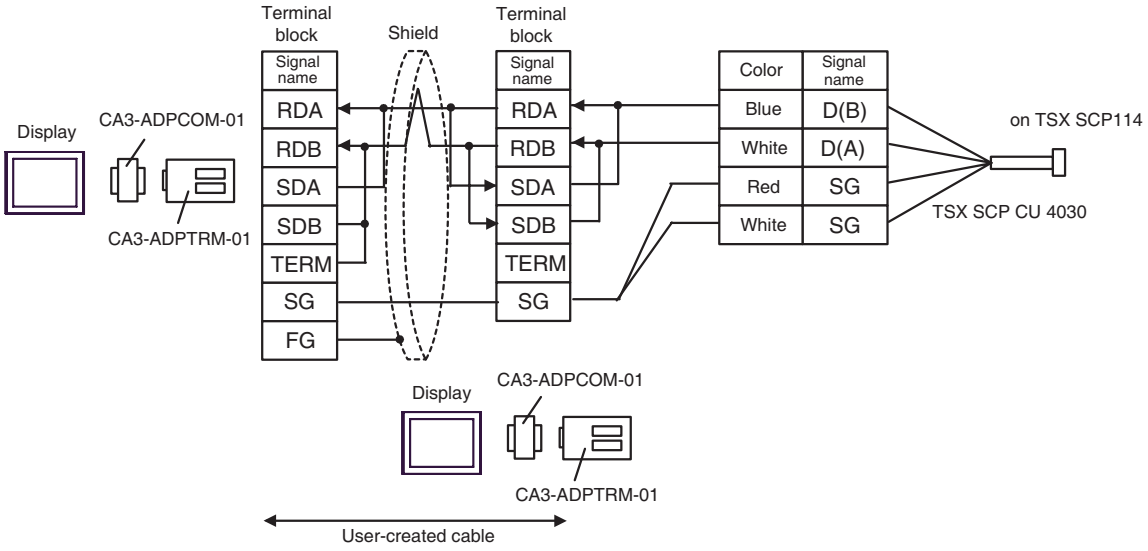
- Line color for both D (A) and SG is white. As SG (red) and SG (white) are twisted pair, as well as D (A) and D (B), you can judge which line is SG or D (A).

4A)

- 1:1 Connection

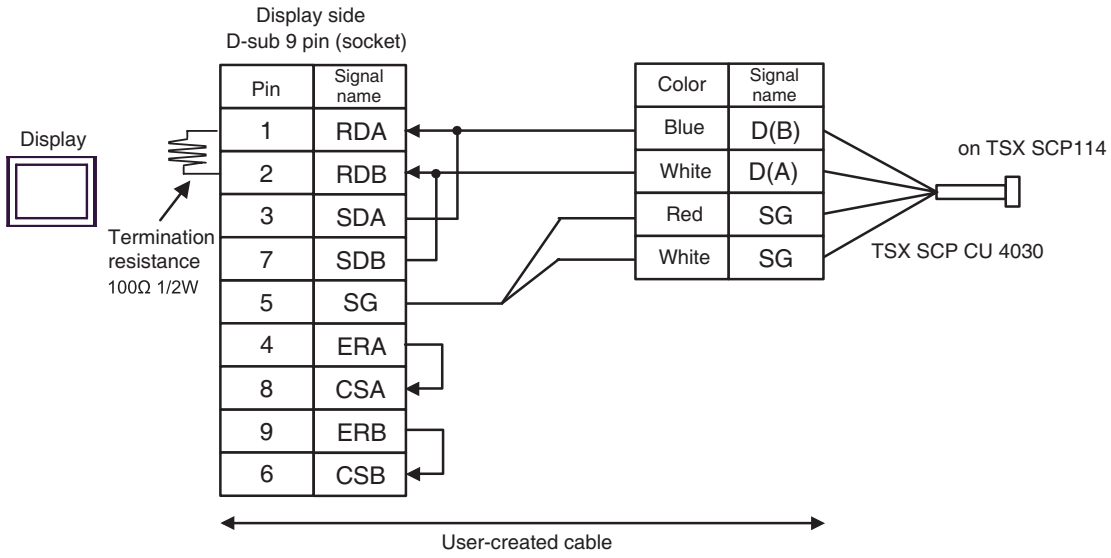


- n:1 Connection

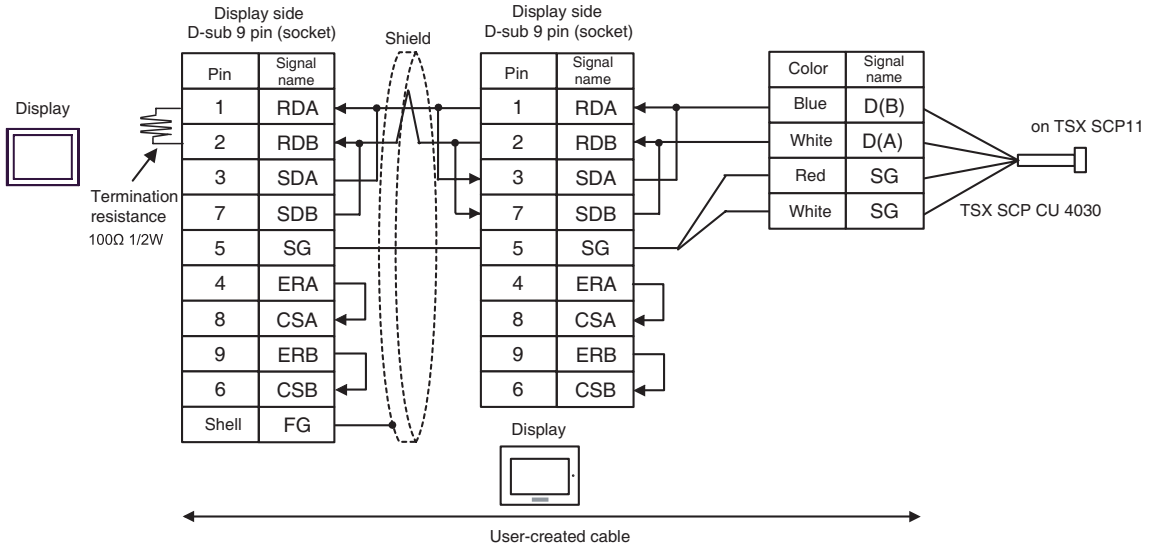


4B)

- 1:1 Connection

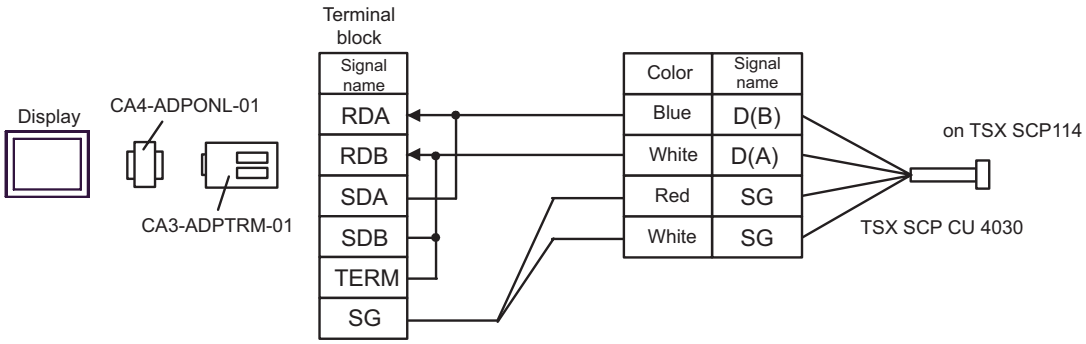


- n:1 Connection

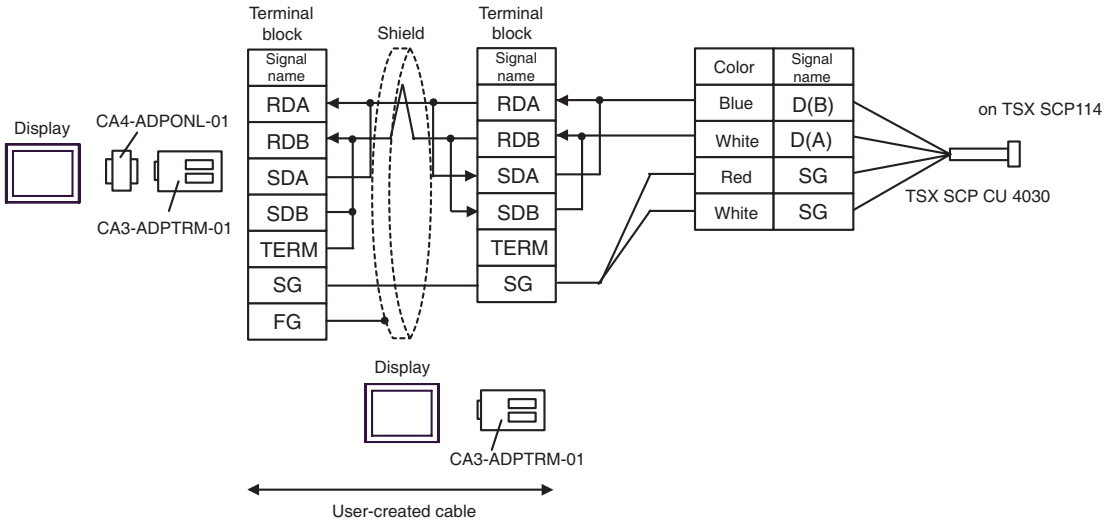


4C)

- 1:1 Connection

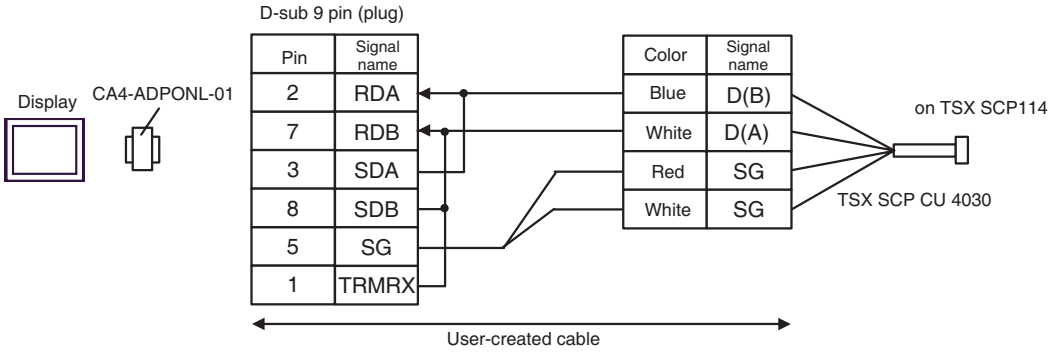


- n:1 Connection

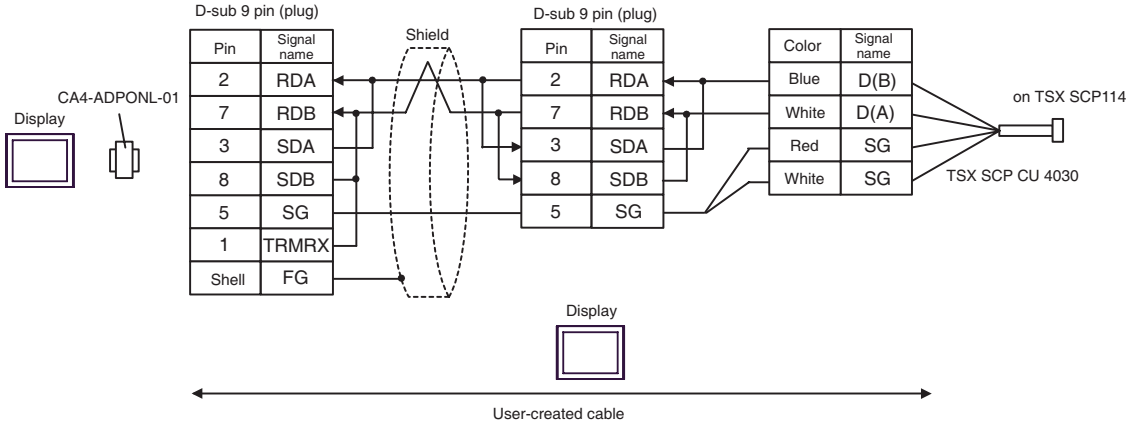


4D)

- 1:1 Connection

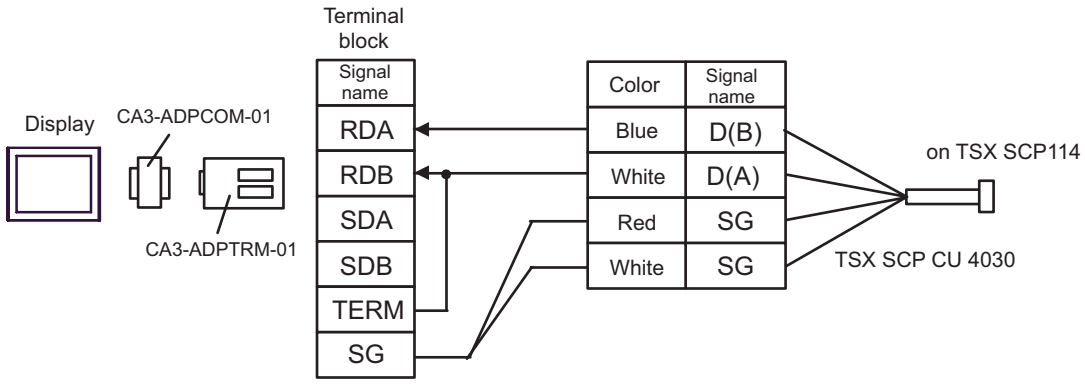


- n:1 Connection

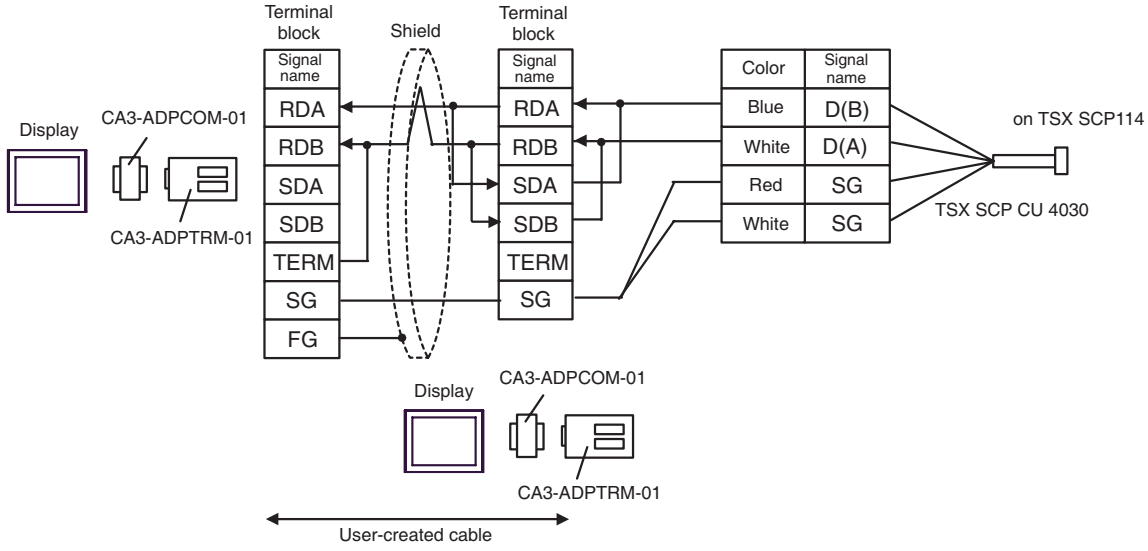


4E)

- 1:1 Connection

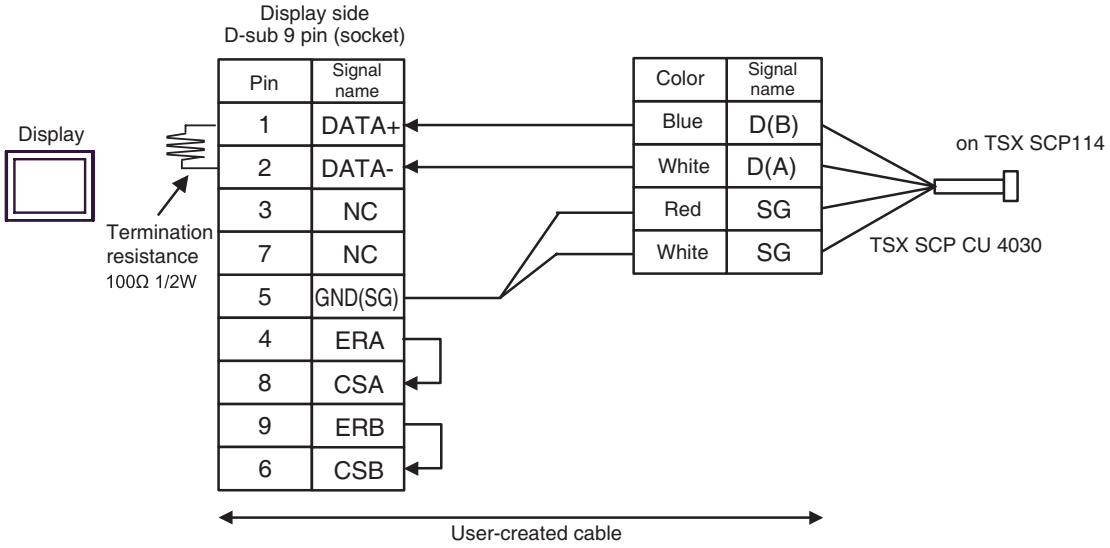


- n:1 Connection

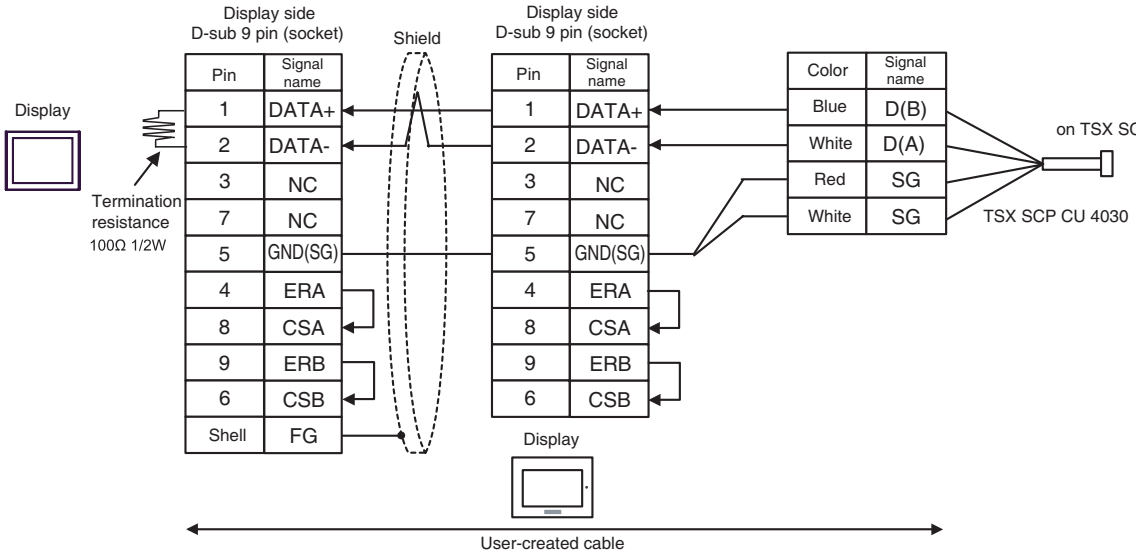


4F)

- 1:1 Connection

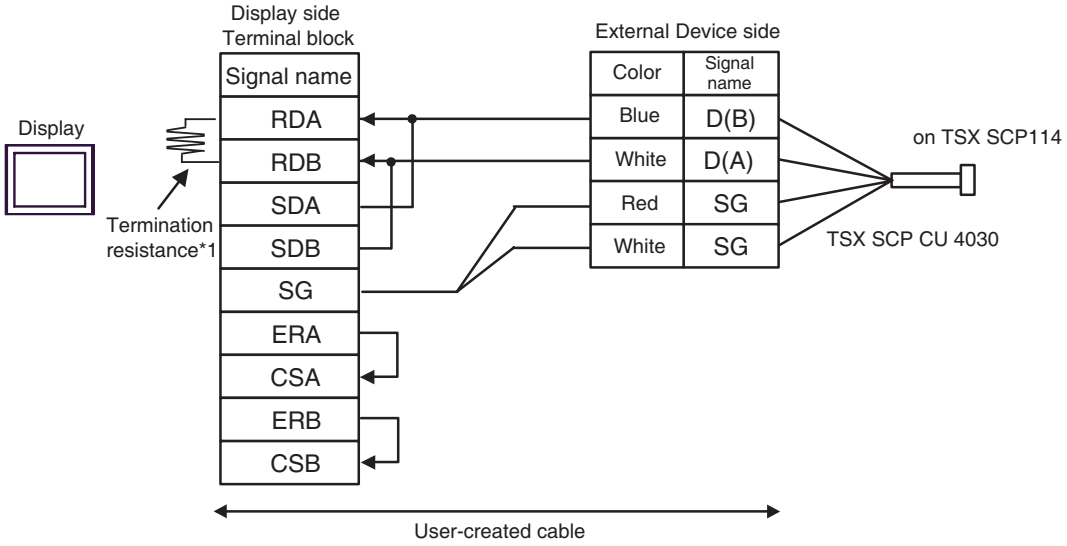


- n:1 Connection

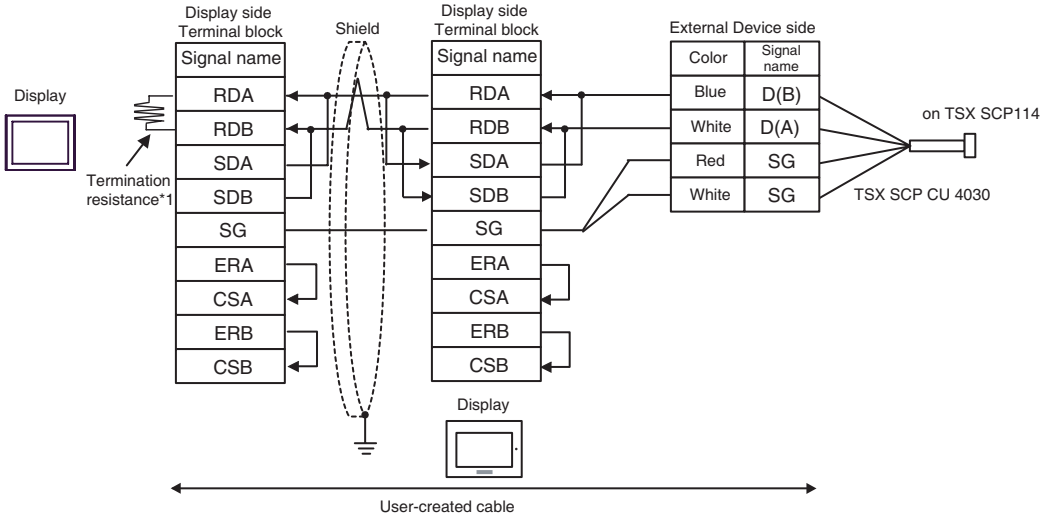


4G)

- 1:1 Connection



- n:1 Connection



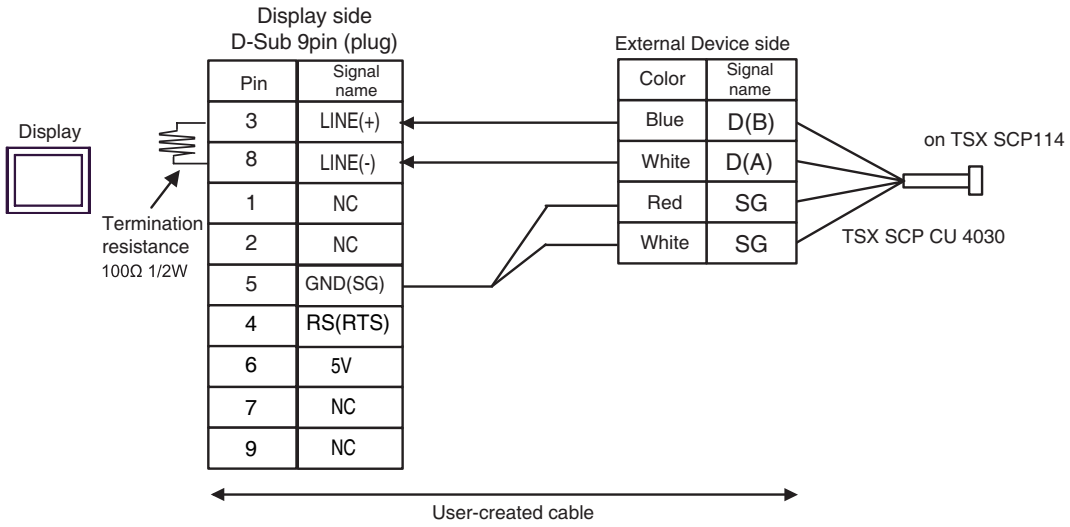
*1 The resistance in the Display is used as the termination resistance. Set the value of the DIP Switch on the rear of the Display as shown in the table below.

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

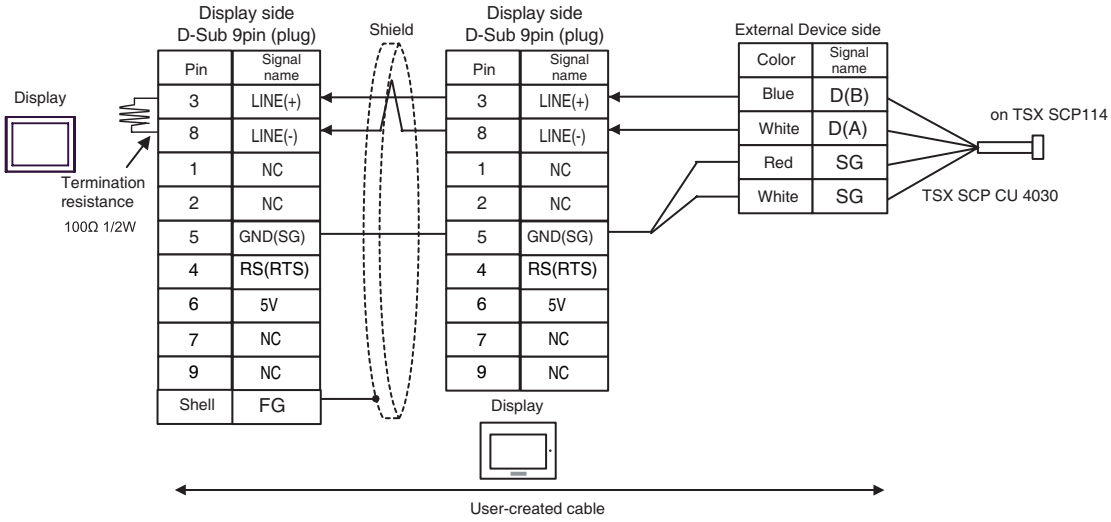
For the Displays other than that used as the terminal, set the DIP Switch 1-4 on the rear of the Display to OFF in the n:1 connection.

4H)

- 1:1 Connection



- n:1 Connection



IMPORTANT

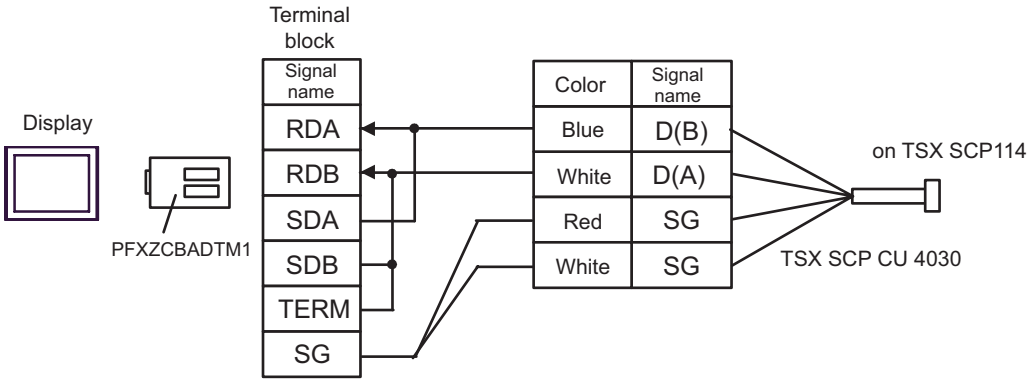
- The 5V output (Pin #6) on the Display is the power for the Siemens AG's PROFIBUS connector. Do not use it for other devices.

NOTE

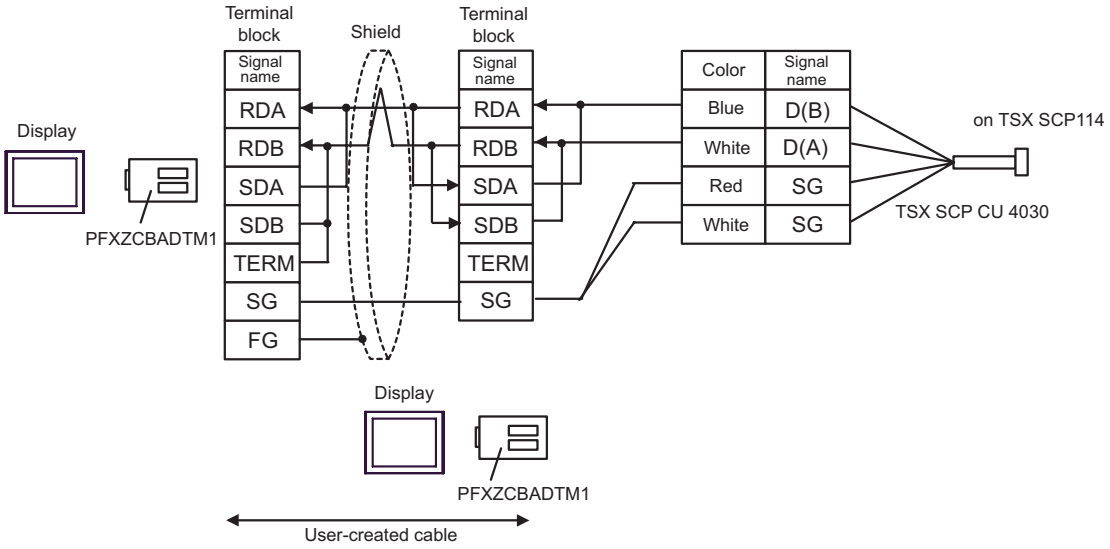
- In COM on the GP-4107, the SG and FG terminals are isolated.

4I)

- 1:1 Connection

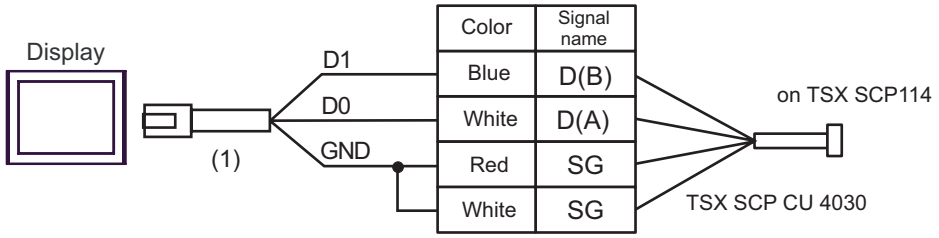


- n:1 Connection

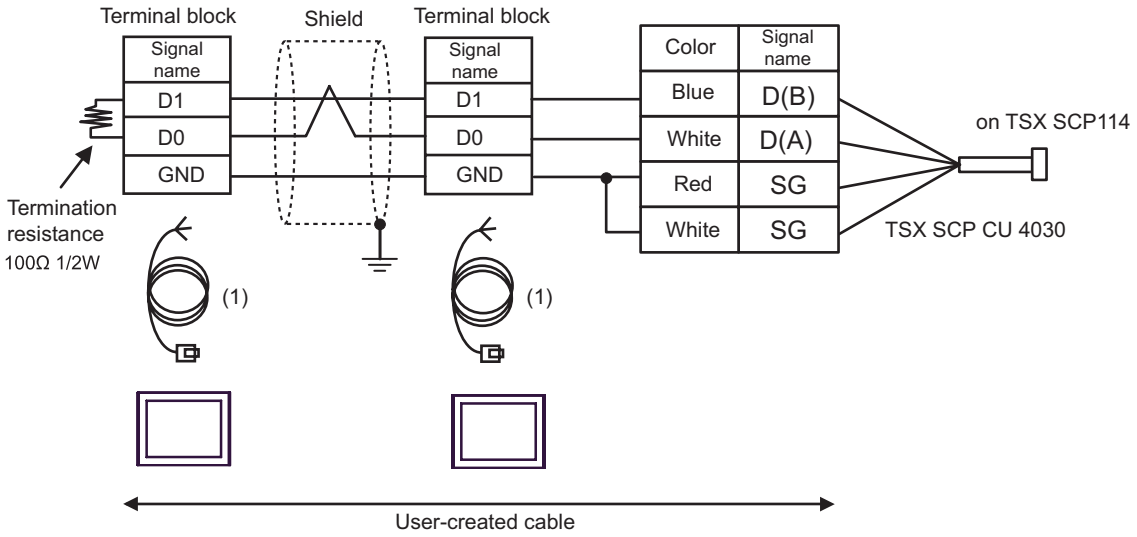


4J)

- 1:1 Connection



- n:1 Connection



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

Cable Diagram 5

Display (Connection Port)	Cable		Notes
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 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	The cable length must be 10m or less.
	5B	User-created cable	
GP3000[*3] (COM2)	5C	Online adapter by Pro-face CA4-ADPONL-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	5D	Online adapter by Pro-face CA4-ADPONL-01 + User-created cable	
IPC[*4]	5E	COM port conversion adapter by Pro-face CA3-ADPCOM-01 + Terminal block conversion adapter by Pro-face CA3-ADPTRM-01 + User-created cable	
	5F	User-created cable	
GP-4106 (COM1)	5G	User-created cable	
GP-4107 (COM1) GP-4*03T[*5] (COM2) GP-4203T (COM1)	5H	User-created cable	
GP4000[*6] (COM2) GP-4201T (COM1)	5I	RS-422 terminal block conversion adapter by Pro-face PFXZCBADTM1[*7] + User-created cable	
	5B	User-created cable	
LT-4*01TM (COM1)	5J	RJ45 RS-485 Cable (5m) by Pro-face PFXZLMCBRJR81	

*1 All GP3000 models except AGP-3302B

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

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

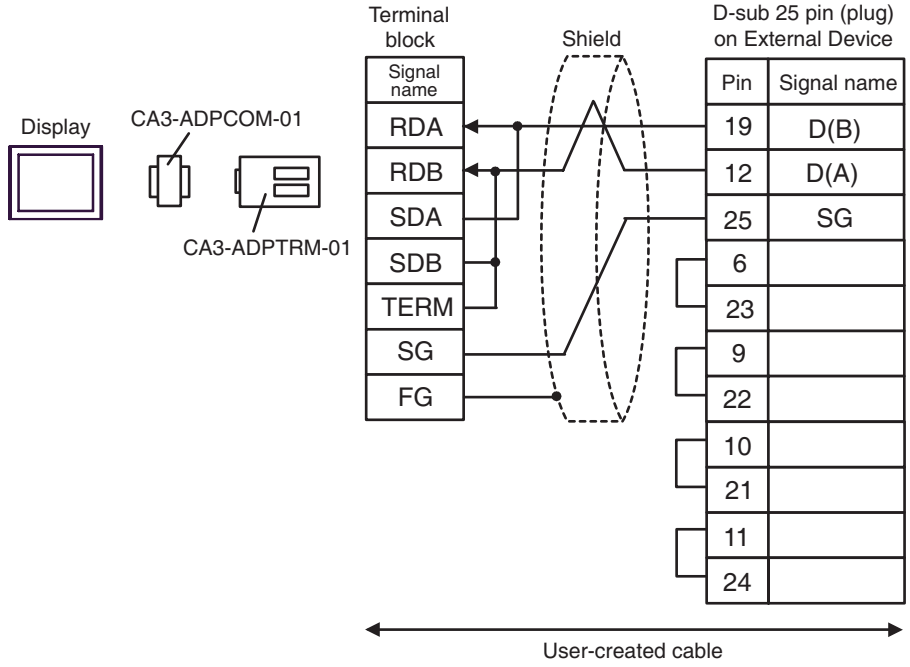
*4 Only the COM port which can communicate by RS-422/485 (2 wire) can be used.
☞ ■ IPC COM Port (page 7)

*5 Except GP-4203T

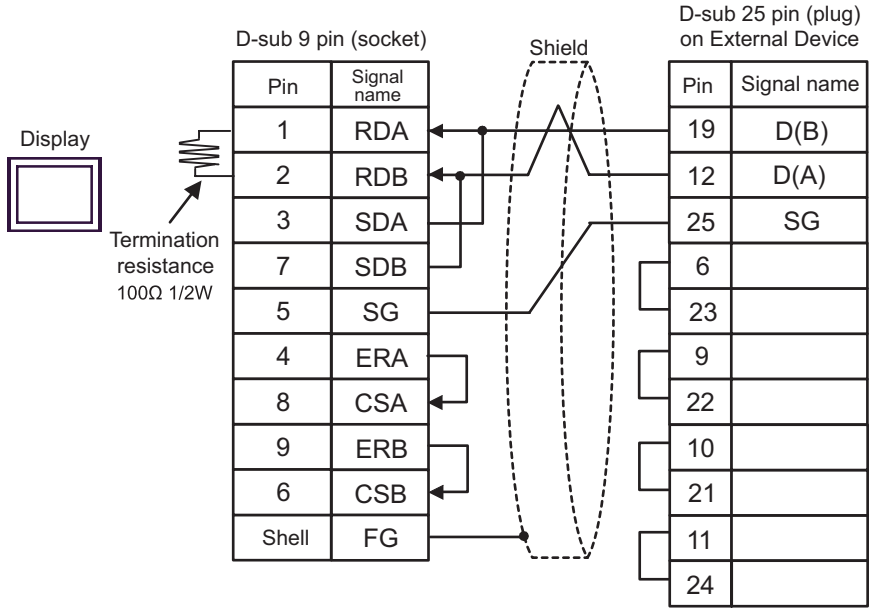
*6 All GP4000 models except GP-4100 series, GP-4*01TM, GP-4201T and GP-4*03T

*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.

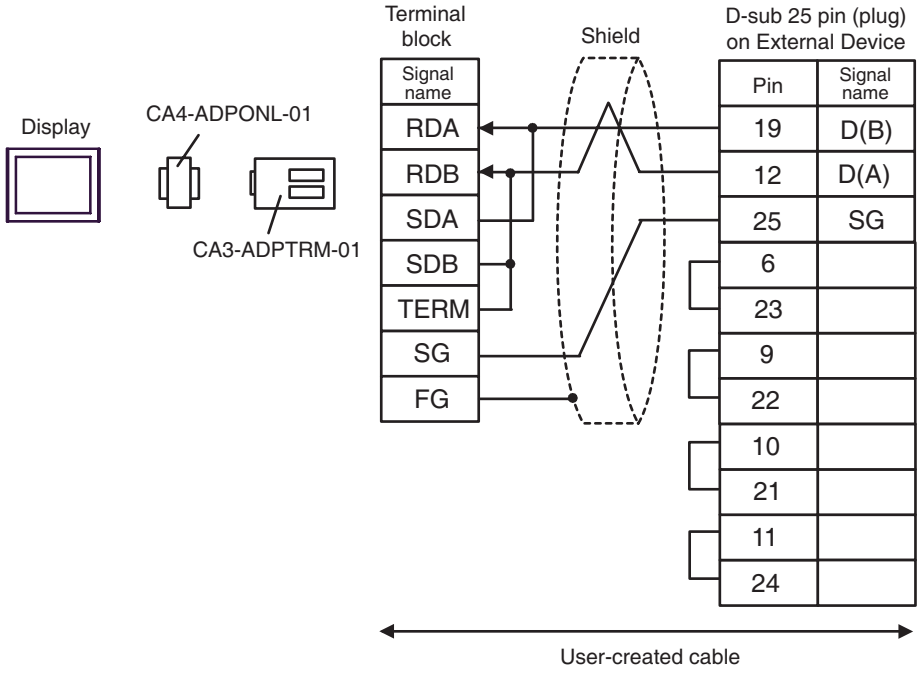
5A)


Terminal block
Shield
D-sub 25 pin (plug) on External Device
Signal name
Pin
Signal name
Display
CA3-ADPCOM-01
CA3-ADPTRM-01
RDA
RDB
SDA
SDB
TERM
SG
FG
19
D(B)
12
D(A)
25
SG
6
23
9
22
10
21
11
24
User-created cable

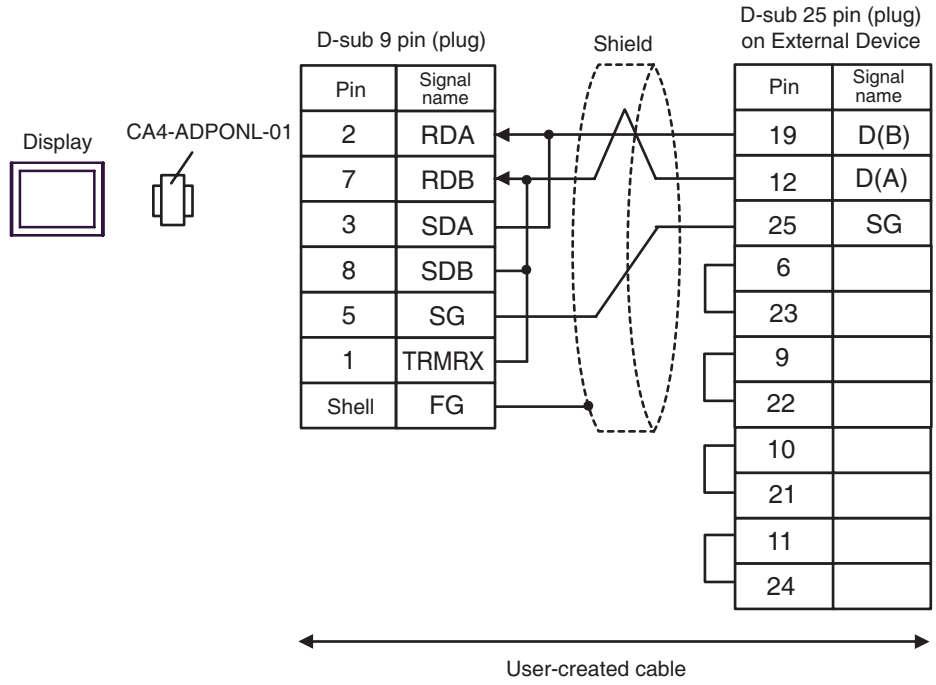
5B)


D-sub 9 pin (socket)
Shield
D-sub 25 pin (plug) on External Device
Pin
Signal name
Display
Termination resistance
100Ω 1/2W
1
RDA
2
RDB
3
SDA
7
SDB
5
SG
4
ERA
8
CSA
9
ERB
6
CSB
Shell
FG
19
D(B)
12
D(A)
25
SG
6
23
9
22
10
21
11
24

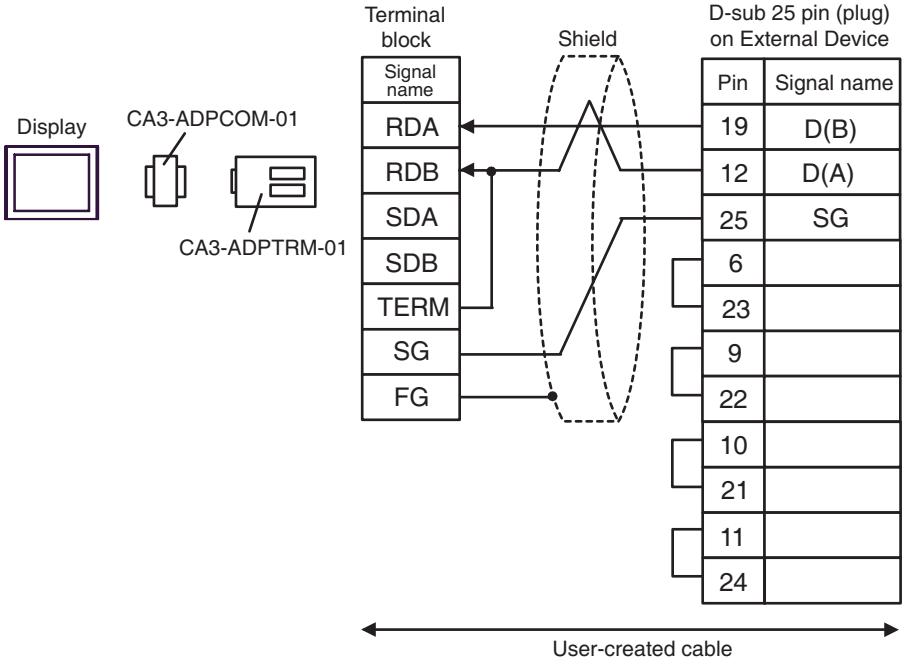
5C)


Terminal block
Shield
D-sub 25 pin (plug) on External Device
Display
CA4-ADPONL-01
CA3-ADPTRM-01
Signal name
RDA
RDB
SDA
SDB
TERM
SG
FG
Pin
Signal name
19
D(B)
12
D(A)
25
SG
6
23
9
22
10
21
11
24
User-created cable

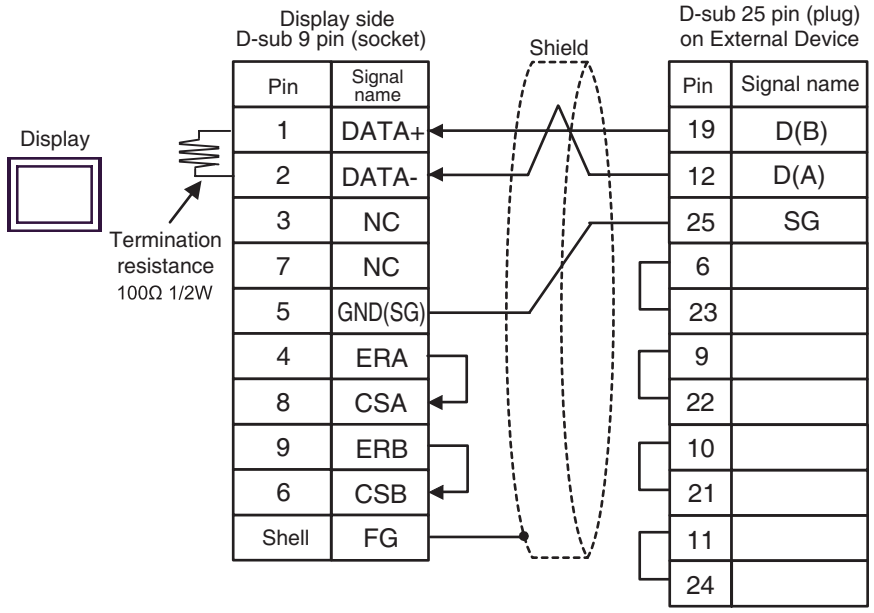
5D)


D-sub 9 pin (plug)
Shield
D-sub 25 pin (plug) on External Device
Display
CA4-ADPONL-01
Pin
Signal name
2
RDA
7
RDB
3
SDA
8
SDB
5
SG
1
TRMRX
Shell
FG
19
D(B)
12
D(A)
25
SG
6
23
9
22
10
21
11
24
User-created cable

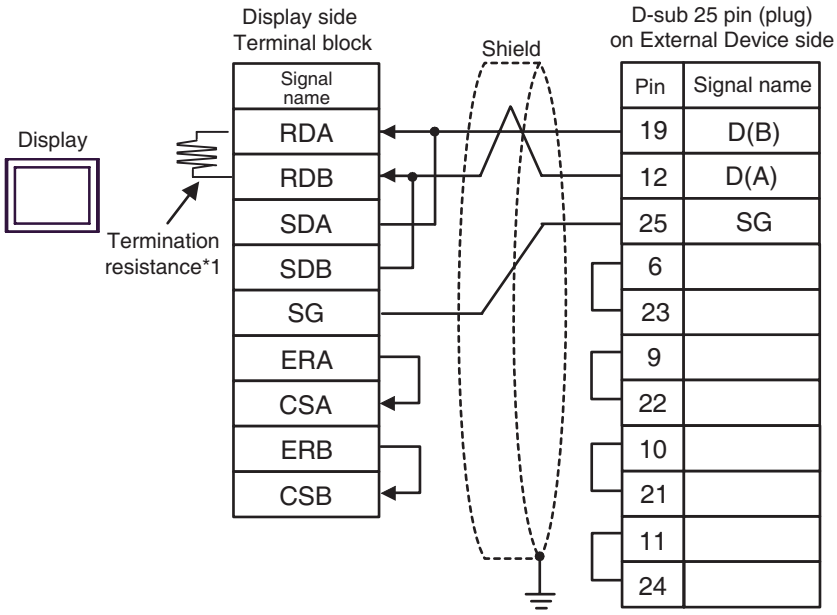
5E)


Terminal block
Shield
D-sub 25 pin (plug) on External Device
Signal name
Pin
Signal name
Display
CA3-ADPCOM-01
CA3-ADPTRM-01
RDA
RDB
SDA
SDB
TERM
SG
FG
19
D(B)
12
D(A)
25
SG
6
23
9
22
10
21
11
24
User-created cable

5F)


Display side D-sub 9 pin (socket)
Shield
D-sub 25 pin (plug) on External Device
Pin
Signal name
Display
Termination resistance
100Ω 1/2W
1
DATA+
2
DATA-
3
NC
7
NC
5
GND(SG)
4
ERA
8
CSA
9
ERB
6
CSB
Shell
FG
19
D(B)
12
D(A)
25
SG
6
23
9
22
10
21
11
24

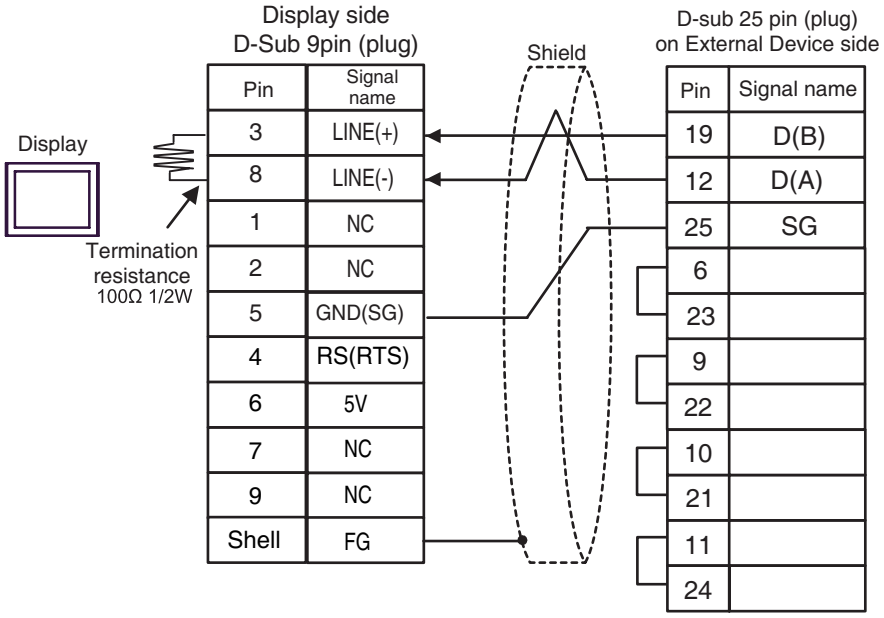
5G)



*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)



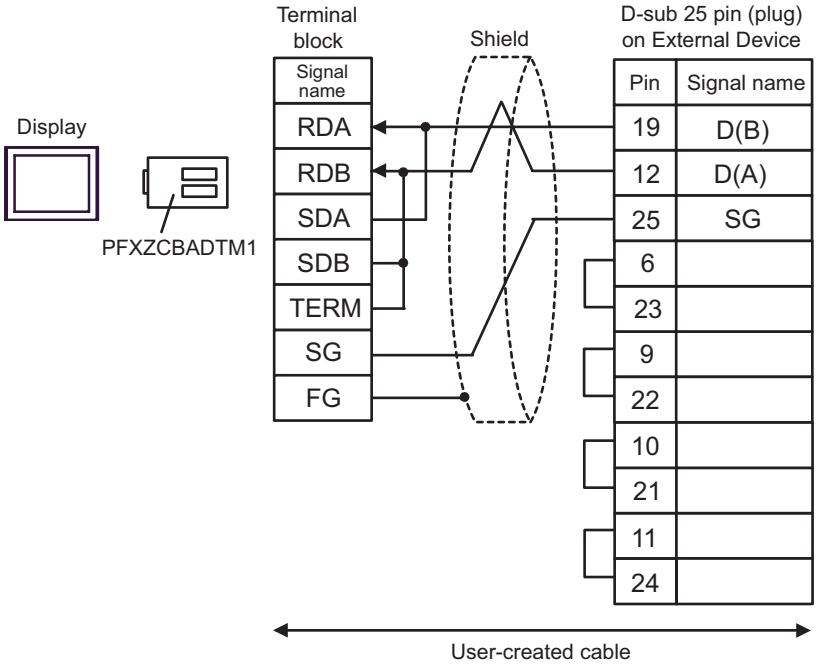
IMPORTANT

- 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.

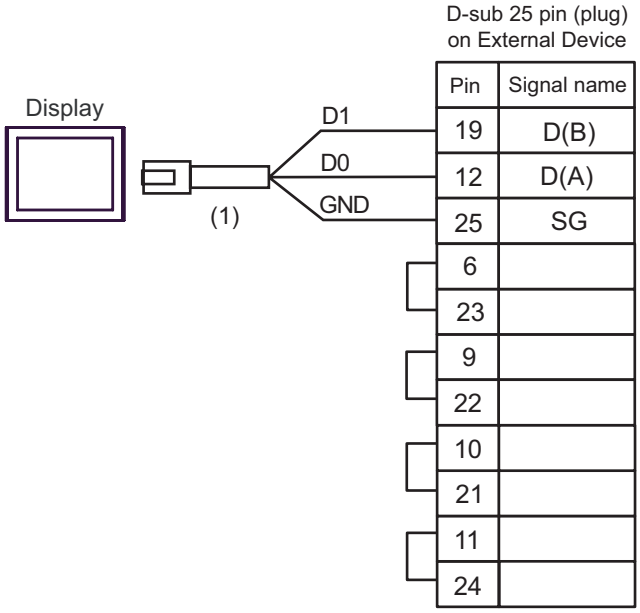
NOTE

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

5I)



5J)



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

6 Supported Device

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

As it also varies depending on the "Software Configuration" setting of the ladder software, please check accordingly.

6.1 Nano Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
Internal Word	%MW00000:X00 - %MW00255:X15	%MW00000 - %MW00255	L/H or H/L *1	*2 Bit 15
Internal Double Word	%MD00000:X00 - %MD00254:X31	%MD00000 - %MD00254		*3 *4 ÷ 2 Bit 31
Constant Word	---	%KW00000 - %KW00063		*5 Bit 15
System Word	---	%SW00000 - %SW00127		Bit 15
Internal Bit	%M00000 - %M00127	---		
System Bit	%S00000 - %S00127	---		

*1 High and low relationship of the stored data is specified by the [Double Word word order] setting of [Device Setting].

"4.1 Setup Items in GP-Pro EX ■ Device Setting" (page 27), "4.2 Setup Items in Offline Mode ■ Device Setting" (page 29)

*2 An access method at the time of Bit Set varies depending on the [Rest of the bits in this word] setting of [Device Setting].

- Clear..... Bit 15
- Do not clear.....When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*3 An access method at the time of Bit Set varies depending on the [Rest of the bits in this word] setting of [Device Setting].

- Clear..... Bit 31
- Do not clear.....When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*4 Use in 32-bit specification. When you perform 16-bit or bit specification, use %MW device. They use the same area inside the External Device.

*5 Write disable.

NOTE

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

6.2 Micro Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
Internal Word	%MW00000:X00 - %MW17543:X15	%MW00000 - %MW17543	L/H or H/L *1	*2 Bit 15
Internal Double Word	%MD00000:X00 - %MD17542:X31	%MD00000 - %MD17542		*3 *4 ÷ 2 Bit 31
Constant Word	---	%KW00000 - %KW13879		*5 Bit 15
System Word	---	%SW00000 - %SW00127		Bit 15
Internal Bit	%M00000 - %M00255	---		
System Bit	%S00000 - %S00127	---		

*1 High and low relationship of the stored data is specified by the [Double Word word order] setting of [Device Setting].

"4.1 Setup Items in GP-Pro EX ■ Device Setting" (page 27), "4.2 Setup Items in Offline Mode ■ Device Setting" (page 29)

*2 An access method at the time of Bit Set varies depending on the [Rest of the bits in this word] setting of [Device Setting].

- Clear..... Bit 15
- Do not clear.....When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*3 An access method at the time of Bit Set varies depending on the [Rest of the bits in this word] setting of [Device Setting].

- Clear..... Bit 31
- Do not clear.....When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*4 Use in 32-bit specification. When you perform 16-bit or bit specification, use %MW device. They use the same area inside the External Device.

*5 Write disable.

NOTE

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

6.3 Premium Series

This address can be specified as system data area.

Device	Bit Address	Word Address	32bits	Notes
Internal Word	%MW00000:X00 - %MW32463:X15	%MW00000 - %MW32463	[L/H] or [H/L] *1	*2 [Bit 15]
Internal Double Word	%MD00000:X00 - %MD32462:X31	%MD00000 - %MD32462		*3 *4 [÷ 2] [Bit 31]
Constant Word	---	%KW00000 - %KW32759		*5 [Bit 15]
System Word	---	%SW00000 - %SW00255		[Bit 15]
Internal Bit	%M00000 - %M32631	---		
System Bit	%S00000 - %S00127	---		

*1 High and low relationship of the stored data is specified by the [Double Word word order] setting of [Device Setting].

"4.1 Setup Items in GP-Pro EX ■ Device Setting" (page 27), "4.2 Setup Items in Offline Mode ■ Device Setting" (page 29)

*2 An access method at the time of Bit Set varies depending on the [Rest of the bits in this word] setting of [Device Setting].

- Clear..... [Bit 15]
- Do not clear.....When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*3 An access method at the time of Bit Set varies depending on the [Rest of the bits in this word] setting of [Device Setting].

- Clear..... [Bit 31]
- Do not clear.....When you write the bit address, the Display reads the word address corresponding to that of the External Device first. Then, it changes the target bit address among the word data once read and returns the word data to the External Device. Note that the correct data may not be written if you change the word address value in the ladder program while the Display reads the data of the External Device and returns it to the External Device.

*4 Use in 32-bit specification. When you perform 16-bit or bit specification, use %MW device. They use the same area inside the External Device.

*5 Write disable.

NOTE

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

7 Device Code and Address Code

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

Device	Device Name	Device Code (HEX)	Address Code
Internal word	%MW	0000	Word Address
Internal Double Word	%MD	0002	Value of word address divided by 2
Constant Word	%KW	0003	Word Address
System Word	%SW	0004	Word Address

8 Error Messages

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

Item	Description
No.	Error No.
Device Name	Name of External Device where error occurs. Name of External Device is a title of External Device set with GP-Pro EX. (Initial value [PLC1])
Error Message	Displays messages related to the error which occurs.
Error Occurrence Area	Displays IP address or device address of External Device where error occurs, or error codes received from External Device. NOTE • IP address is displayed such as "IP address(Decimal): MAC address(Hex)". • Device address is diplayed such as "Address: Device address". • Received error codes are displayed such as "Decimal[Hex]".

Display Examples of Error Messages

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

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