

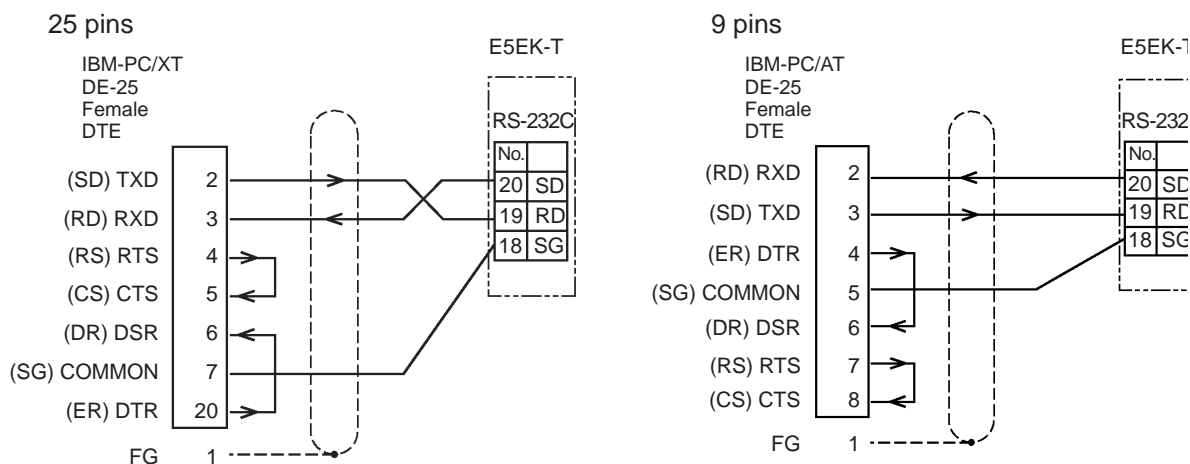
Preparing for Communications

For details on wiring when the communications function is used, see Chapter 2 Preparations.

Cable connections

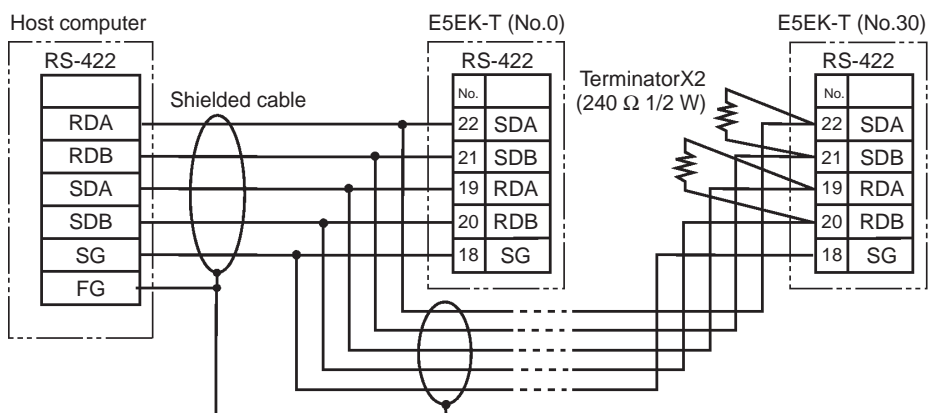
RS-232C

- Only one controller can be connected to the host computer. (1:1 connection)
- The cable length should not exceed 15 meters.
- Use shielded twisted-pair cables (AWG28 or more) for the cables.



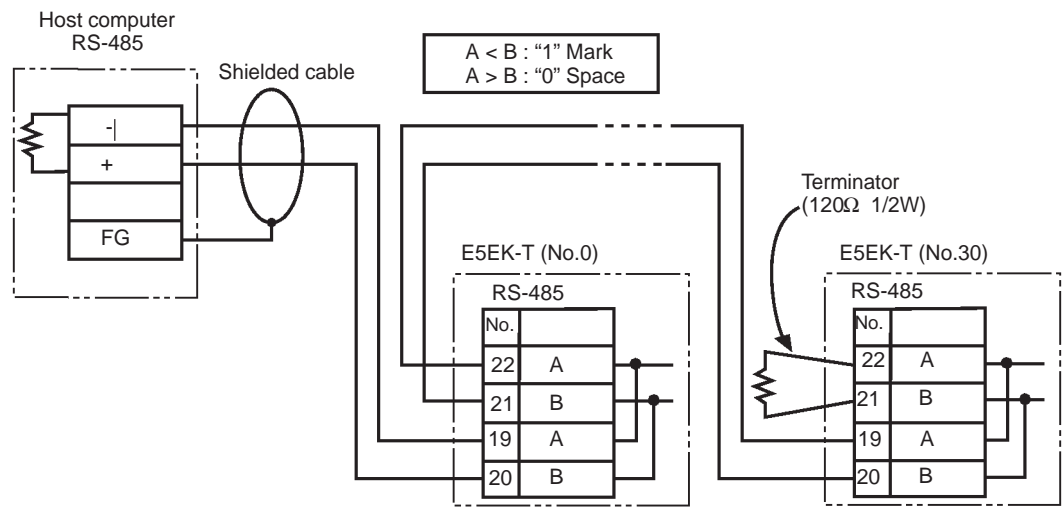
RS-422

- 1:1 or 1:N connections are allowed. In a 1:N connection, up to 32 controllers including the host computer can be connected.
- The total cable length should not exceed 500 meters.
- Use shielded twisted-pair cables (AWG28 or more) for the cables.
- Attach terminators to the controllers at both ends of the series of controllers connected in an open configuration. For example, in the following configuration, connect the terminator to unit No.30, and do not connect terminators to unit Nos.0 to 29.
- Use terminators having a resistance of $240\ \Omega$ ($1/2\ W$). The total resistance of both ends should be at least $100\ \Omega$



RS-485

- 1:1 or 1:N connections are allowed. In a 1:N connection, up to 32 controllers including the host computer can be connected.
- The total cable length should not exceed 500 meters.
- Use shielded twisted-pair cables (AWG28 or more) for the cables.
- Attach terminators to the controllers at both ends of the series of controllers connected in an open configuration. For example, in the following configuration, connect the terminator to unit No.30, and do not connect terminators to unit Nos.0 to 29.
- Use terminators having a resistance of 120 Ω (1/2 W). The total resistance of both ends should be at least 54 Ω



Setting the communications specifications

Match the communications specifications of the host computer and E5EK-T controller. When two or more controllers are connected to the host computer, make sure that the communications specifications of all controllers are the same.

This section describes how to set the communications specifications for the E5EK-T controller. For details on the host computer, see the relevant manual supplied with the host computer.

Communications parameters

Set the communications specifications of the E5EK-T in the controller's communications parameters. The communications parameters are set on the front panel of the E5EK-T controller.

The following table shows the communications parameters (option mode) provided on the E5EK-T controller and their respective settings.

Parameter/Symbol		Setting	Set Value
Unit No.	U-nō	0 to 99	0 to 99
Baud rate	bP5	1.2/2.4/4.8/9.6/19.2 (kbps)	1.2/2.4/4.8/ 9.6 /19.2
Bit length	LEn	7/8 (bit)	7 /8
Parity	PrtY	None/even/odd	nōnE / Euen / odd
Stop bit	Sbĭt	1/2	1/ 2

Inverted items are factory settings.