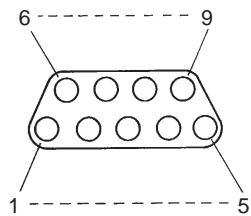


RS-422

Electrical characteristics: Conforms to EIA RS-422

Communications Signals

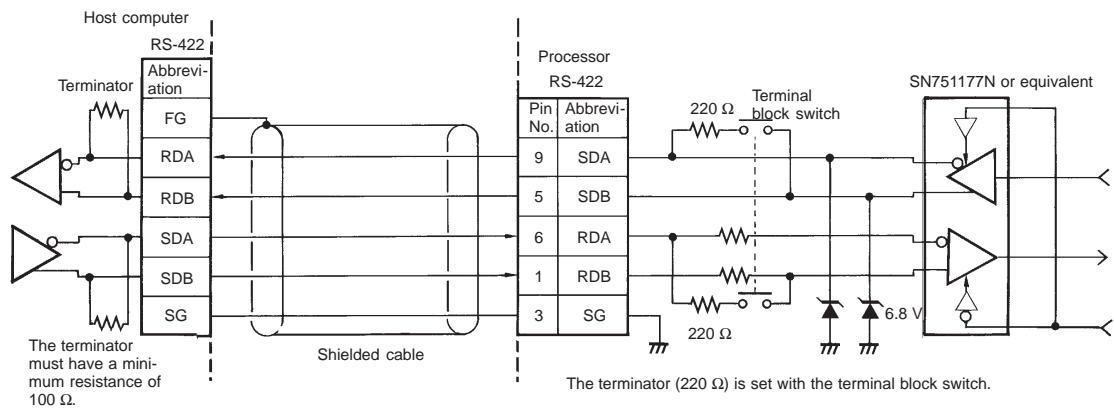
The following information identifies the key input/output signals of the interface.



| Signal | Abbreviation | Signal direction | Pin No. |
|------------------------------|--------------|------------------|---------|
| Send Data A | SDA | Output | 9 |
| Send Data B | SDB | Output | 5 |
| Receive Data A | RDA | Input | 6 |
| Receive Data B | RDB | Input | 1 |
| Signal Ground | SG | --- | 3 |
| Frame Ground (safety ground) | FG | --- | 7 |

Connection Diagram

The following example provides information on how the RS-422 Intelligent Signal Processor is to be connected to the host computer.



- Synchronization clock: Internal clock

Total line length: 500 m maximum

Recommended cable: CO-HC-ESV-3P x 7/0.2 (Hirakawa Densen)

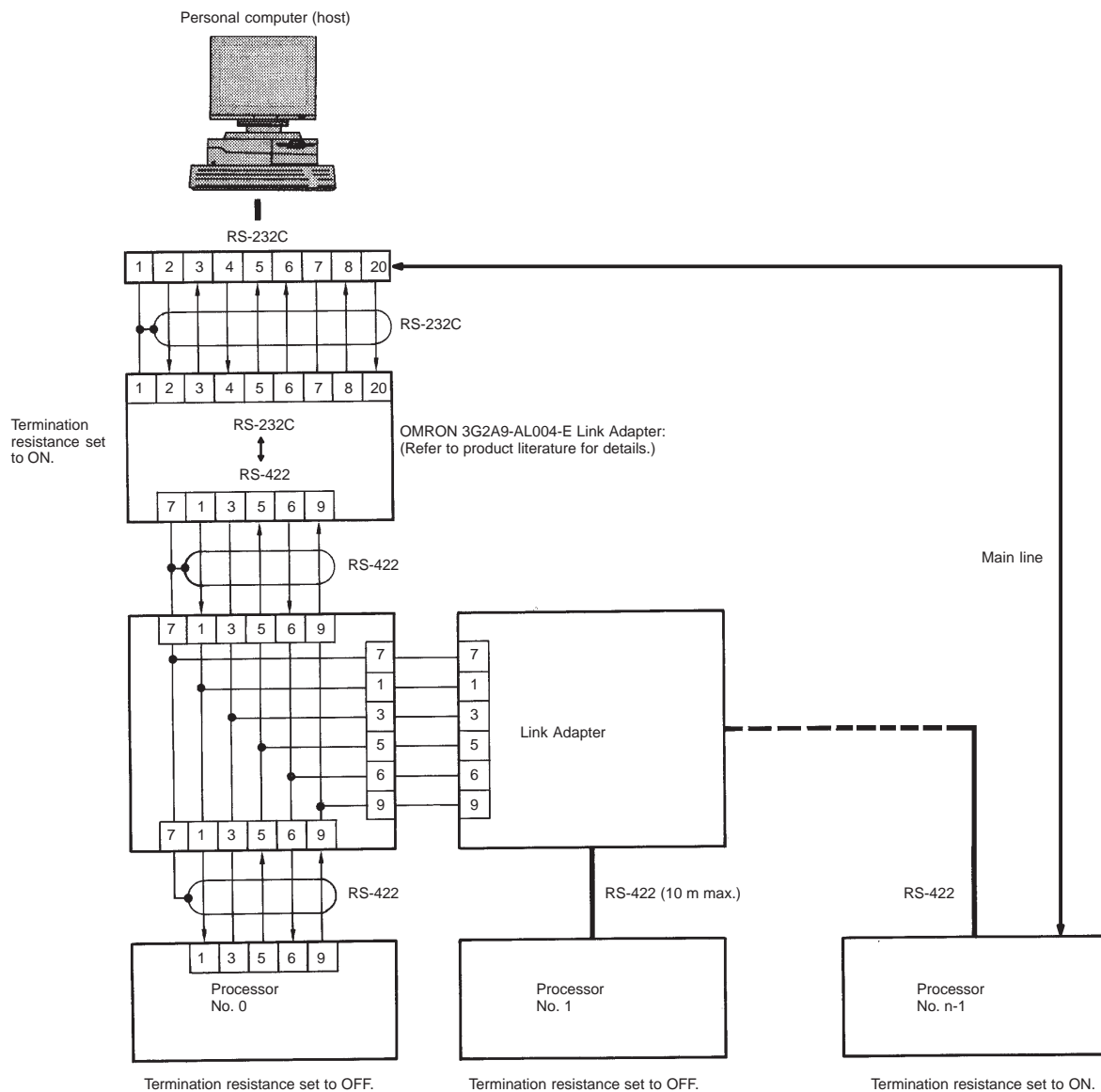
Applicable connectors: Plug: XM2A-0901 (OMRON) or equivalent
Hood: XM2S-0911 (OMRON) or equivalent

Connection method (RS-422 connection): Maximum 1:32 connection

When using this connection:
Turn ON the terminal block switch at the end station.
Turn OFF all other terminal block switches.

RS-422 System Example

The following example shows several Intelligent Signal Processors connected to a personal computer using the RS-422 connection method.



Maximum number of connections is 32; total line length is 500 m maximum.

Use shielded, twisted-pair cable and route the cable separately from other signal lines.

The total length of the cable must be less than 500 m, including the branch lines. Each branch line may be up to 10 m long.

Wire the system so that short branch lines branch from the main line. Turn ON the termination resistance only at the two Unit's at each end of the main line. All intermediate Units must have their termination resistance turned OFF. Data won't be transferred properly if an intermediate Unit has its termination resistance ON.