

JIS

JAPANESE INDUSTRIAL STANDARD

**The Interface between Data Circuit
Terminating Equipment (DCE)
and Data Terminal Equipment (DTE)
(25-pin Interface)**

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In the event of any doubt arising,
the original Standard in Japanese is to be final authority.

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The Interface between Data Circuit Terminating
Equipment (DCE) and Data Terminal Equipment (DTE)
(25-pin Interface)

X 5101-1982

1. Scope

This Japanese Industrial Standard specifies the interface using 25-pin connector to transfer binary serial data, control and timing signals between data circuit terminating equipment (DCE) and data terminal equipment (DTE).

Reference: This interface is offered in DCE, based on the recommendations V.24 and V.28 of CCITT (International Telegraph and Telephone Consultative Committee).

2. Application Conditions

The application conditions of this standard shall be as follows:

2.1 Synchronizing Systems Synchronous and asynchronous systems.

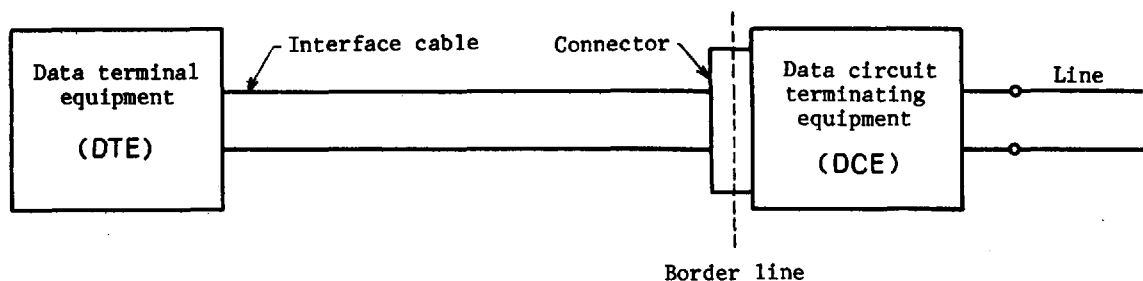
2.2 Class of Circuits Direct private circuits and multibranching private circuits and general switched circuits.

2.3 Interface Cables The interface cables between DTE and DCE are normally equipped at DTE side.

2.4 Data Signal Rate The rate shall be 20 K bits/sec. or less.

2.5 Border Line The border line to determine the electrical and physical characteristics are as shown in Fig. 1.

Fig. 1. Border Line



3. Connector

The shape, dimensions and pin numbers of connector used at the border line shall be as shown in Fig. 2 and Fig. 3.

The connector of DCE side is shown in Fig. 2, where the contacts are female type and the shell is male type. The connector of interface cable side is shown in Fig. 3, where the contacts are male type and the shell is female type.

Reference Standards: See pages 15 and 16.

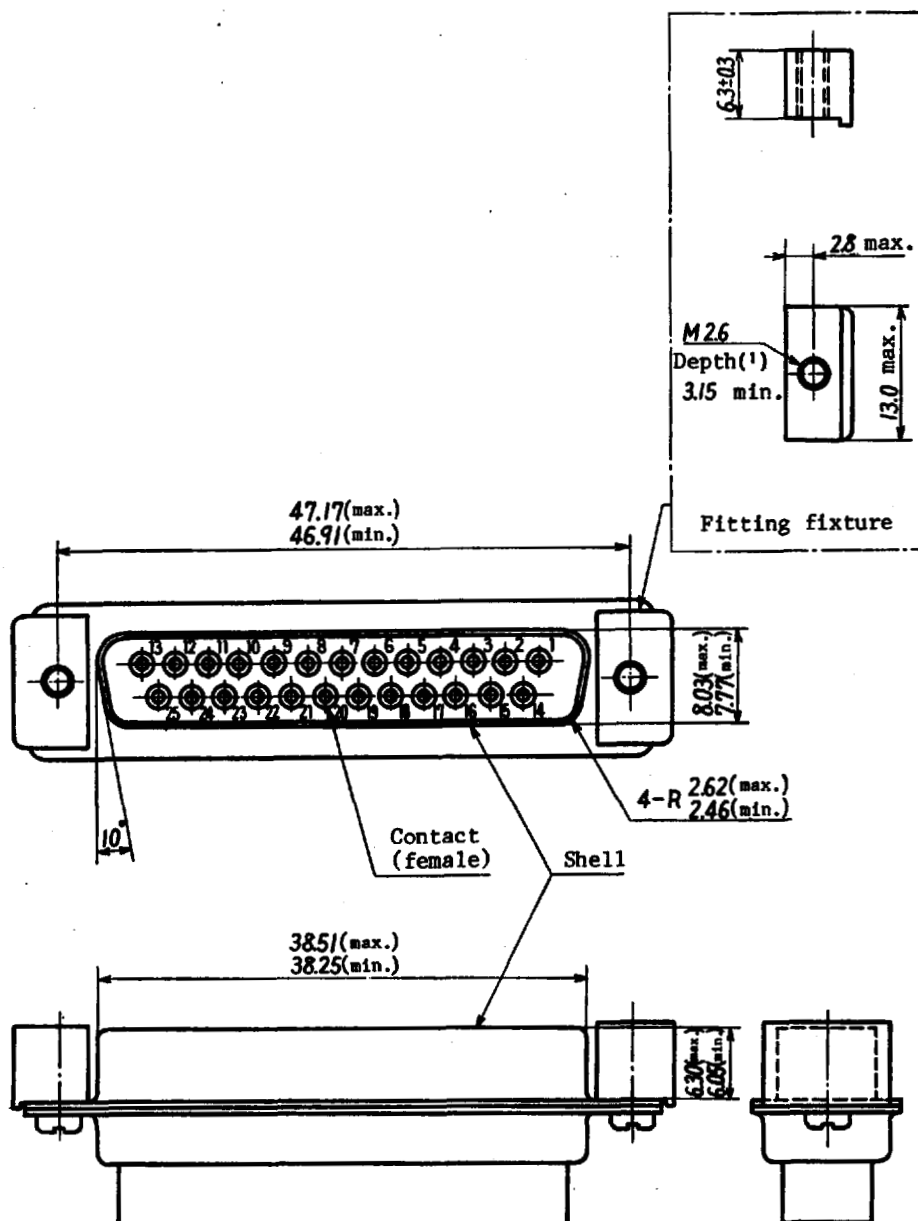
The fitting fixtures shown at the upper right side of Fig. 2 shall be provided on the connector of DCE side and used to fix the connector of interface cable side.

The spacing between pins shall be as shown in Fig. 4.

The shapes and dimensions of male and female type contacts shall be as shown in Fig. 5 and Fig. 6.

Fig. 2. Connector of DCE Side

Unit: mm



Note (1) Depth upto which the set screws of connector of interface cable side can be mated.

Fig. 3. Connector of Joint Cable Side

Unit: mm

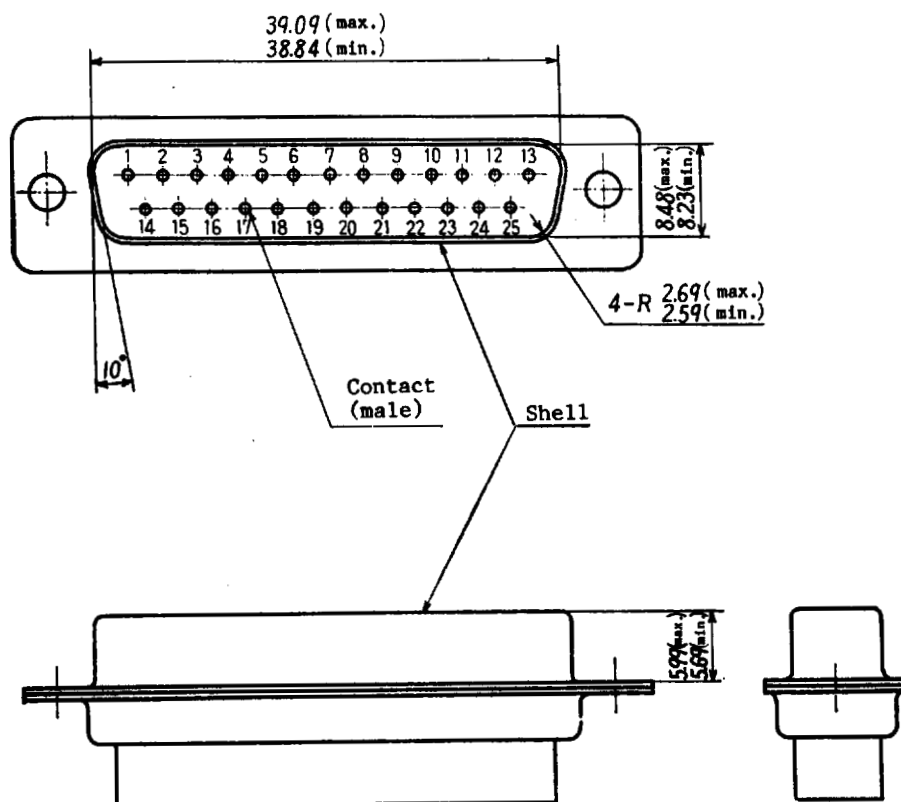


Fig. 4. Spacing between Pins

Unit: mm

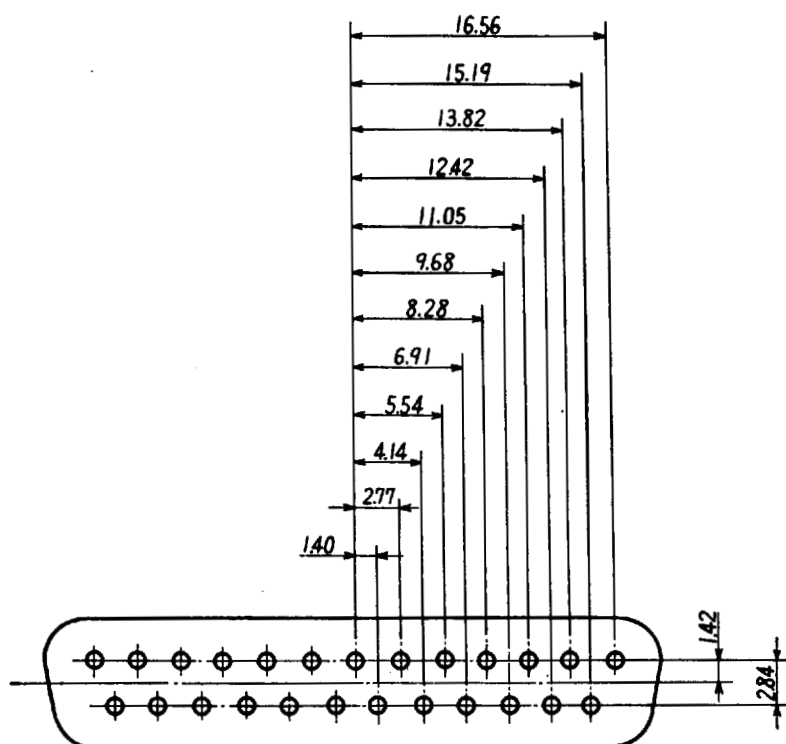


Fig. 5. Male Contact

Unit: mm

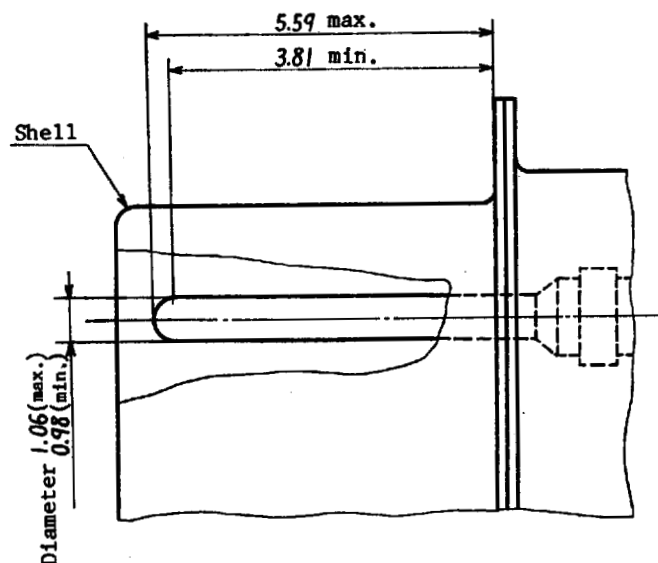
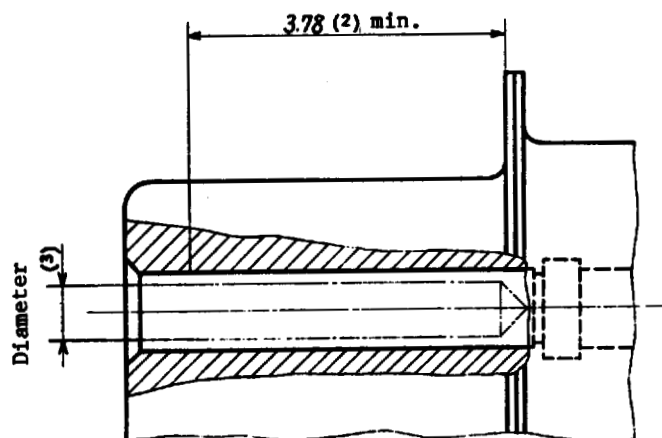


Fig. 6. Female Contact

Unit: mm



Notes (2) The length of contact part measured with square shaped test pin.

(3) The diameter shall be such that electrical contact is ensured when an appropriate pin is mated.

4. Pin Arrangement

The arrangement of pins for interchange circuits shall be as given in Table 1 in relation with the purpose of the DCE.