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Australian Standard®

Data communication—

**15-pin DTE/DCE interface connector
and pin assignments**



STANDARDS AUSTRALIA



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PREFACE

This Standard was prepared by Standards Australia's Committee on Information Processing Systems. It is identical with and has been reproduced from International Standard ISO 4903-1980.

This Standard specifies the 15-pin connector and the assignment of connector pin numbers at the interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) where CCITT Recommendations X.24, X.26, and X.27 are applicable.

The Standard is one of a series of Open Systems Interconnection (OSI) Standards which are currently under development. Since OSI Standards are developmental, there may be some minor difficulties encountered in their implementation. For this reason, Standards Australia will be providing a limited interpretation service to coordinate and disseminate information concerning difficulties which are identified in using this Standard.

For the purpose of this Australian Standard, the text of the ISO Standard given herein should be modified as follows:

- (a) *Terminology.* The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.
- (b) *References.* The references to International Standards should be replaced by references to Australian Standards as follows:

<i>International Standard</i>	<i>Australian Standard</i>
ISO	AS
2110 Data communication—25-pin DTE/DCE interface connector and pin assignments	2748 Data communication—25-pin DTE/DCE interface connector and pin assignments
4902 Data communication—37-pin and 9-pin DTE/DCE interface connectors and pin assignments	3612 Data communication—37-pin and 9-pin DTE/DCE interface connectors and pin assignments

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Data communication—15-pin DTE/DCE interface connector and pin assignments

1 Scope and field of application

This International Standard specifies the 15-pin connector and the assignment of connector pin numbers at the interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) where CCITT¹⁾ Recommendations X.24, X.26, and X.27 are applicable.

2 References

ISO 2110, *Data communication — 25-pin DTE/DCE interface connector and pin assignments.*

ISO 4902, *Data communication — 37-pin and 9-pin DTE/DCE interface connectors and pin assignments.*

CCITT Recommendation V.28, *Electrical characteristics for unbalanced double-current interchange circuits.*

CCITT Recommendation X.20, *Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for start-stop transmission services on public data networks (PDN).*

CCITT Recommendation X.21, *General purpose interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for synchronous operation on public data networks (PDN).*

CCITT Recommendation X.22, *Multiplex DTE/DCE interface for user classes 3-6.*

CCITT Recommendation X.24, *List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) on public data networks (PDN).*

CCITT Recommendation X.26 (or V.10), *Electrical characteristics for unbalanced double-current interchange circuits for general use with integrated circuit equipment in the field of data communications.*

CCITT Recommendation X.27 (or V.11), *Electrical character-*

istics for balanced double-current interchange circuits for general use with integrated circuit equipment in the field of data communications.

3 Connector

Figures 1 to 7 illustrate the 15-pin interface connector. Only those dimensions that are essential to mating are shown. Figure 1 illustrates the DTE interface connector which has 15 male contacts and a female shell. Figure 2 illustrates the DCE interface connector which has 15 female contacts and a male shell. Contact numbering is specified in figures 1 and 2. The DCE interface connector shall be equipped with the two latching blocks as specified in figure 2. The DTE interface connector shall be equipped with means for latching to these blocks. The means for latching the DTE connector to the blocks on the DCE connector is subject to national regulations. The means for latching, however, is to be accomplished within the shaded space shown in figure 3. The means for latching shall be such that the connectors can be latched and disconnected within the access space available for both of the arrangements illustrated in figure 4. This will permit DCE interface connectors to be mounted with the clearances shown for either of the two arrangements of figure 4. Figure 5 illustrates the dimensions for the pin layout. Figures 6 and 7 illustrate the dimensions for the pin and mating socket respectively.

The specification for the connector in this International Standard is provided for mechanical compatibility only. It is also intended to be mechanically compatible with the detailed connector specification currently being developed by the IEC.

4 Assignment of pin numbers

The pin assignments for the interchange circuits specified in CCITT Recommendations X.20, X.21 and X.22 are given in table 1 for implementations using X.26 and X.27 electrical characteristics. Additionally, pin 1 is reserved for connection of the shield of shielded interconnecting cable. The list of interchange circuits is given in table 2. Their provision and use must be in conformity with corresponding CCITT DCE Recommendations.

¹⁾ International Telegraph and Telephone Consultative Committee.