AS 3613—1989
ISO 4903-1980

1991 ED.

Australian Standard®

Data communication—

15-pin DTE/DCE interface connector and pin assignments

STANDARDS AUSTRALIA

D

This Australian Standard was prepared by Committee IS/1, Information Processing Systems. It was approved on behalf of the Council of Standards Australia on 7 February 1989 and published on 13 March 1989.

The following interests are represented on Committee IS/1:

Australian Association of Permanent Building Societies

Australian Bankers' Association

Australian Bureau of Statistics

Australian Computing Services Association

Australian Computer Society

Australian Computer Users Association

Australian Computing Services Association

Australian Information Industry Association

CSIRO

CSIRONET

Department of Defence

Department of Industry, Technology and Commerce

Life Insurance Federation of Australia

Public Service Board, N.S.W.

Telecom Australia

Universities and colleges

Additional interests participating in preparation of Standard:

Computer consultants

AS 3613—1989

Australian Standard®

Data communication—

15-pin DTE/DCE interface connector and pin assignments

First published as AS 3613—1989.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY NSW
ISBN 0 7262 5524 6

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:

International Standard		*Australian Standard*	
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

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 CCITT[1] 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 characteristics 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.