

Superseded by AS/NZS 2794:1994

AS 2794—1985  
UDC 681.327.8:621.316.541

(Identical with ISO 2593-1984)

# Australian Standard<sup>®</sup> 2794—1985

---

## DATA COMMUNICATION— 34 PIN DTE/DCE INTERFACE CONNECTOR AND PIN ASSIGNMENTS



**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*



This Australian standard was prepared by Committee IS/1, Information Processing Systems. It was approved on behalf of the Council of the Standards Association of Australia on 19 March 1985 and published on 7 June 1985.

---

The following interests are represented on Committee IS/1:

Australian Bankers' Association  
Australian Bureau of Statistics  
Australian Computer Equipment Suppliers Association  
Australian Computer Users Association  
Australian Computer Society  
Australian Electrical and Electronic Manufacturers Association  
CSIRO, Division of Computing Research  
Department of Defence  
Department of Science and Technology  
Life Insurance Federation of Australia  
National Library of Australia  
Office Equipment Industry Association of Australia  
Public Service Board, N.S.W.  
Qantas Airways Limited  
Telecom Australia  
Universities and Colleges

---

*Review of Australian Standards.* To keep abreast of progress in industry, Australian standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all SAA publications will be found in the Catalogue of SAA Publications; this information is supplemented each month by SAA's journal 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn standards.

Suggestions for improvements to Australian standards, addressed to the head office of the Association, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian standard should be made without delay in order that the matter may be investigated and appropriate action taken.

AUSTRALIAN STANDARD

DATA COMMUNICATION—  
34 PIN DTE/DCE INTERFACE  
CONNECTOR AND PIN  
ASSIGNMENTS

AS 2794—1985

First published (as AS 1484, Part 4 Section 2) 1973  
AS 2794 first published ..... 1985

PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA  
STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY, N.S.W.



ISBN 0 7262 3765 5

## PREFACE

This standard was prepared by the Association's Committee on Information Processing Systems. It is identical with and has been reproduced from International Standard ISO 2593—1984, drawn up by ISO/TC 97, Information Processing Systems. This standard constitutes a revision of AS 1484, Part 4—1973, Section 2, and supersedes that portion of the standard from the date of publication.

The purpose of this standard is to specify the assignment of connector pins for 34-pin connectors between data terminals and data communication equipment.

The connector for high speed equipment conforms with CCITT Recommendation V35.

This standard differs from the previous edition in that it provides detailed information on the 34-pin connector including DTE and DCE interface connector drawings.

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

- a) Terminology: The words 'Australian standard' should replace the words 'International Standard' wherever they appear.
- b) Decimal comma: The decimal point should replace the decimal comma wherever it appears.

©Copyright — STANDARDS ASSOCIATION OF AUSTRALIA 1985

Users of standards are reminded that copyright subsists in all SAA publications. No part of this publication may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing of the Standards Association of Australia.

# Data communication—34 pin DTE/DCE interface connector and pin assignments

## 1 Scope and field of application

This International Standard specifies the assignment of connector pin numbers and certain essential connector dimensions necessary to ensure mechanical compatibility at the interface between Data Terminal Equipment (DTE) and Data Circuit Terminating Equipment (DCE) where CCITT Recommendations V.35 and X.21 bis are applicable.

## 2 References

CCITT Recommendation V.35, *Data transmission at 48 kbit/s using 60-108 kHz group band circuits.*<sup>1)</sup>

CCITT Recommendation X.21 bis, *Use on Public Data Networks of Data Terminal Equipment (DTE) which are designed for interfacing to Synchronous V-series Modems.*

MIL Specification MIL-C-28748/-F, *Connector, electrical, rectangular, rack and panel.*

## 3 Connector

Figures 1 to 5 define the 34 pin interface connector.

Figure 1 illustrates the DTE interface connector which has 34 male contacts and a plug shell. Figure 2 illustrates the DCE interface connector which has 34 female contacts and a receptacle shell. Contact identification lettering is also illustrated in figures 1 and 2. The use of shields and retaining plates of dif-

ferent shape and size from those illustrated is not a violation of this International Standard.

This International Standard does not specify the means for retaining the connector assembly (comprising contact insert, shell and retaining plate or cable adapter).

NOTE — These features are indicated by concentric circles in figures 1, 2 and 3.

This International Standard does not specify the dimensions of the jackscrews. An addendum is in preparation which will specify these dimensions.

Figure 3 illustrates the dimensions for the pin layout.

Figures 4 and 5 specify the dimensions of the pin and mating socket respectively.

### NOTES

1 The nominal pin diameter of 1,6 mm is referred to as size 16 in MIL-C-28748/-F.

2 The first edition of this International Standard did not specify all the connector dimensions required to ensure mechanical compatibility. As a result pins with nominal diameters of both 1 mm and 1,6 mm and two different arrangements of plug shell and receptacle shell are now in use in different countries. This International Standard specifies 1,6 mm pins and the particular arrangement of plug shell and receptacle shell described above; where arrangements occur which do not conform with the 1984 edition, adapters may be necessary.

3 The plug shell specified in this International Standard does not contain the optional polarizing pin defined in MIL-C-28748/-F.

1) Manufacturers are advised that there are other CCITT Recommendations for group band modems, viz V.36 and V.37.