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2794—1985

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

STANDARDS ASSOCIATION OF AUSTRALIA
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AUSTRALIAN STANDARD

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

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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.

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

:ITT Recommendation V.35, *Data transmission at* 48 kbit/s *ng* 60-108 kHz *group band circuits.*[1)]

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 different 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.