

Implementation of
ISO 4902:1989

Information technology — Data communication — 37-pole DTE/DCE interface connector and contact number assignments

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- Association for Payment Clearing Services
- British Computer Society
- British Telecommunications plc
- Department of Trade and Industry (National Physical Laboratory)
- EEA (the Electronics and Business Equipment Association)
- Electricity Supply Industry in England and Wales
- Information Technology Users' Standards Association
- Joint Network Team
- National Computing Centre Ltd.
- National Health Services
- OFTEL (Office of Telecommunications)
- Post Office
- Telecommunication Engineering and Manufacturing Association
- User Standards Forum for Information Technology (Institute of Data Processing Management)

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National foreword

This British Standard reproduces verbatim ISO 4902:1989 and implements it as the UK national standard. This British Standard supersedes BS 6623-2:1986 which is withdrawn.

This British Standard is published under the direction of the Information Systems Technology Standards Policy Committee whose Technical Committee IST/6 has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international committee any enquiries on interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the ISO title page, pages ii to iv, pages 1 to 19 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

INTERNATIONAL STANDARD

**ISO
4902**

Second edition
1989-12-01

Information technology — Data communication — 37-pole DTE/DCE interface connector and contact number assignments

*Technologies de l'information — Communication de données — Connecteur
d'interface ETTD/ETCD à 37 pôles et affectation des numéros de contact*



Reference number
ISO 4902 : 1989 (E)

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Descriptors: Data processing, data transmission, network interconnection, data communication equipment, connecting equipment, electric connectors, connector pins, multi-contact connectors, specifications, dimensions, layout, numbering.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 4902 was prepared by Technical Committee ISO/TC 97, *Information processing systems*.

This second edition cancels and replaces the first edition (ISO 4902:1980), of which it constitutes a minor revision: certain terms have been aligned with the terms and definitions used by IEC.

Annex A, Annex B and Annex C of this International Standard are for information only.

1 Scope

This International Standard specifies the 37-pole connector and the assignment of contact numbers at the interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) where CCITT¹⁾ Recommendation V.24 together with Recommendations V.10 and V.11 are applicable.

International Standard ISO 4902 additionally provides the dimensions of the connector housing, as well as the recommended means of providing a locking device (latching block) and connector shielding.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 261:1973, *ISO general purpose metric screw threads — General plan*.

ISO 2110:1980, *Data communication — 25-pin DTE/DCE interface connector and pin assignments*.

ISO 4903:1980, *Data communication — 15-pin DTE/DCE interface connector and pin assignments*.

CCITT Recommendation V.10 (or X.26):1989, *Electrical characteristics for unbalanced double-current interchange circuits for general use with integrated circuit equipment in the field of data communications*.

CCITT Recommendation V.11 (or X.27):1989, *Electrical characteristics for balanced double-current interchange circuits for general use with integrated circuit equipment in the field of data communications*.

CCITT Recommendation V.24:1989, *List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE)*.

CCITT Recommendation V.28:1989, *Electrical characteristics for unbalanced double-current interchange circuits*.

CCITT Recommendation V.36:1989, *Modems for synchronous data transmission using 60–108 kHz group band circuits*.

CCITT Recommendation V.37:1989, *Synchronous data transmission at a data signalling rate higher than 72 kbit/s using 60–108 kHz group band circuits*.

IEC Publication 50(581):1978, *International Electrotechnical Vocabulary — Chapter 581: Electromechanical components for electronic equipment*.

IEC Publication 807-2:1985, *Rectangular connectors for frequencies below 3 MHz — Part 2: Detail specification for a range of connectors with round contacts — Fixed solder contact types*.

3 Definitions

The following definitions have been taken from IEC Publication 50(581):1978.

3.1 cable adaptor

a part of a connector or an accessory consisting of a rigid housing for attachment to the connector body. It may incorporate provision for a cable clamp or seal for terminating screens and provide shielding from electrical interference. It may be straight or angled

3.2 connector housing

a part of a connector into which the insert and contacts are assembled

3.3 contact arrangement

the number, spacing and configuration of contacts in a component

3.4 female contact

a contact intended to make electrical engagement on its inner surface and which will accept entry of a male contact

3.5 intermateable connectors

two connectors are intermateable when they are capable of being connected electrically and mechanically but without regard to their performance and intermountability

3.6 locking device

a feature incorporated in certain components to provide mechanical retention of their mating part

¹⁾ International Telegraph and Telephone Consultative Committee.