AS 2748—1991

ISO 2210: 1989

Australian Standard®

Information technology—Data communication—25-pole DTE/DCE interface connector and contact number assignments

This Australian Standard was prepared by Committee IT/1, Information Systems—Interconnection. It was approved on behalf of the Council of Standards Australia on 8 March 1991 and published on 15 April 1991.

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First published as AS 1484.4—1973.
AS 1484.4—1973 revised and redesignated
AS 2748—1985.
Second edition 1991.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140
ISBN 0 7262 6839 9

PREFACE

This Standard was prepared by the Standards Australia Committee on Information Systems—Interconnection to supersede AS 2748—1985, *Data communication—25-pin DTE/DCE interface connector and pin assignments*. It is identical with and has been reproduced from ISO 2110:1989, *Information technology—Data communication—25-pole DTE/DCE interface connector and contact number assignments.*

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, through the OSI Help Desk, a service to coordinate and disseminate information concerning difficulties which are identified in using this Standard.

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

(i) *Terminology* The words 'Australian Standard' should replace the words 'International Standard' wherever they appear.

(ii) *References* The references to other publications should be replaced by references to Australian Standards as follows:

Reference to International Standard or other Publication		*Australian Standard*	
ISO		AS	
261	ISO general purpose metric screw threads—General plan	1721	General purpose metric screw
8480	Information processing—Data communication—DTE/DCE interface back-up control operation using the 25-pole connector	—	
CCITT		—	
S.16	Connection to the telex network of an automatic terminal using a V.24(1) DCE/DTE interface		
V.19	Modems for parallel data transmission using telephone signalling frequencies	—	
V.20	Parallel data transmission modems standardized for universal use in the general switched telephone network	—	
V.21	300 bits per second duplex modem standardized for use in the general switched telephone network	—	
V.22	1200 bits per second duplex modem standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits	—	
V.22 bis	2400 bits per second modem using the frequency division technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits	—	
V.23	600/1200-baud modem standardized for use in the general switched telephone network	—	
V.24	List of definitions for interchange circuits between data terminal equipment and data circuit-terminating equipment	—	

Reference to International Standard or other Publication		*Australian Standard*
V.25	Automatic answering equipment and/or parallel automatic calling equipment on the general switched telephone network including disabling of echo control devices for both manually and automatically established calls	—
V.25 bis	Automatic calling and/or answering equipment on the general switched telephone network (GSTN) using the 100-series interchange circuits	—
V.26	2400 bits per second modem standardized for use on 4-wire leased telephone-type circuits	—
V.26 bis	2400/1200 bits per second modem standardized for use in the general switched telephone network	—
V.26 ter	2400 bits per second duplex modem using the echo cancellation technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits	—
V.27	4800 bits per second modem with manual equalizer standardized for use on leased telephone-type circuits	—
V.27 bis	4800/2400 bits per second modem with automatic equalizer standardized for use on leased telephone-type circuits	—
V.27 ter	4800/2400 bits per second modem standardized for use in the general switched telephone network	—
V.28	Electrical characteristics for unbalanced double-current interchange circuits	—
V.29	9600 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits	—
V.31	Electrical characteristics for single-current interchange circuits controlled by contact closure	—
V.31 bis	Electrical characteristics for single-current interchange circuits using optocouplers	—
V.32	A family of two-wire, duplex modems operating at data signally rates of up to 9600 bit/s for use on the general switched telephone network and on leased telephone-type circuits	—
V.33	14400 bits per second modem standardized for use on point-to-point 4-wire leased telephone-type circuits	—
X.20	Interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) for start-stop transmission services on public data networks	—
X.20 bis	Use on public data networks of data terminal equipment (DTE) which is designed for interfacing to asynchronous duplex V-series modems	—
X.21 bis	Use on public data networks of data terminal equipment (DTE) which is designed for interfacing to synchronous V-series modems	—
X.24	List of definitions for interchange circuits between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) on public data networks	—

Reference to International Standard or other Publication		*Australian Standard*
IEC 50(581)	International Electrotechnical Vocabulary—Chapter 581: Electromechanical components for electronic equipment	—
807-2	Rectangular connectors for frequencies below 3MHz—Part 2: Detail specification for a range of connectors with round contacts—Fixed solder contact types	—

Information technology—Data communication—25-pole DTE/DCE interface connector and contact number assignments

1 Scope

This International Standard specifies the 25-pole connector and the assignment of contact numbers at the interface between data terminal equipment (DTE) and data circuit-terminating equipment (DCE) or parallel automatic calling equipment (ACE). It is applicable to voice band modems, public data network (PDN) facilities, telegraph signal converters, and automatic calling equipment where CCITT[1)] Recommendations V.24 and V.28 are applicable.

In the case of the PDN attachment through the X.20 interface, the functions of the interchange circuits are in accordance with CCITT Recommendation X.24.

In the case of the V.20 type outstation interface, the electrical characteristics are in accordance with CCITT Recommendation V.31 or V.31 bis.

International Standard ISO/IEC 2110 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 indicated 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 8480 : 1987, *Information processing — Data communication—DTE/DCE interface back-up control operation using the 25-pole connector.*

CCITT Recommendation S.16 : 1989, *Connection to the telex network of an automatic terminal using a V.24 [1] DCE/DTE interface.*

CCITT Recommendation V.19 : 1989, *Modems for parallel data transmission using telephone signalling frequencies.*

CCITT Recommendation V.20 : 1989, *Parallel data transmission modems standardized for universal use in the general switched telephone network.*

CCITT Recommendation V.21 : 1989, *300 bits per second duplex modem standardized for use in the general switched telephone network.*

CCITT Recommendation V.22 : 1989, *1 200 bits per second duplex modem standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits.*

CCITT Recommendation V.22 bis : 1989, *2 400 bits per second duplex modem using the frequency division technique standardized for use on the general switched telephone network and on point-to-point 2-wire leased telephone-type circuits.*

CCITT Recommendation V.23 : 1989, *600/1 200-baud modem standardized for use in the general switched telephone network.*

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

CCITT Recommendation V.25 : 1989, *Automatic answering equipment and/or parallel automatic calling equipment on the general switched telephone network including disabling of echo control devices for both manually and automatically established calls.*

CCITT Recommendation V.25 bis : 1989, *Automatic calling and/or answering equipment on the general switched telephone network (GSTN) using the 100-series interchange circuits.*

CCITT Recommendation V.26 : 1989, *2 400 bits per second modem standardized for use on 4-wire leased telephone-type circuits.*

1) International Telegraph and Telephone Consultative Committee.