

Specification for

**Modems for connection
to public switched
telephone networks
and speech band
private circuits run by
certain public
telecommunications
operators**

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Telecommunications Standards Policy Committee (TCT/-) to Technical Committee TCT/2, upon which the following bodies were represented:

British Approvals Board for Telecommunications
British Broadcasting Corporation
British Facsimile Industry Consultative Committee
British Radio and Electronic Equipment Manufacturers' Association
British Telecommunications plc
Communications Marketing and Servicing Association
Computing Services Association
Department of Trade and Industry (Telecommunications and Posts Division)
EEA (The Association of Electronics, Telecommunications and Business Equipment Industries)
Electrical Installation Equipment Manufacturers' Association (BEAMA Ltd.)
Electronic Components Industry Federation
Engineering Equipment and Materials Users' Association
Independent Telecommunications Suppliers' Association
Institution of Electrical Engineers
Kingston Communications (Hull) plc
Mercury Communications Limited
Mobile Radio Users' Association
National Communications Union
National Transcommunications Ltd
OFTEL (Office of Telecommunications)
Telecommunications Industry Association
Telecommunications Managers' Association
Telecommunications Users' Association (TUA)
United Kingdom Offshore Operators' Association

This British Standard, having been prepared under the direction of the Telecommunications Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 31 October 1992

© BSI 02-1999

The following BSI references relate to the work on this standard:
Committee reference TCT/2
Draft for comment 87/61563 DC

ISBN 0 580 21542 3

Amendments issued since publication

Amd. No.	Date	Comments

Contents

	Page
Committees responsible	Inside front cover
Preface	ii
Foreword	ii
1 Scope	1
2 Abbreviations and definitions	1
3 Safety	1
4 Interface with the PSTN and/or speechband private circuits	1
5 Connection arrangements	6
6 Marking	6
7 Information to be provided by the supplier	7
8 Control of apparatus during test	7
Figure 1 — Power level limits in the frequency range 30 Hz to 4 000 Hz for speechband private circuits	3
Figure 2 — Power level limits at frequencies above 4 kHz	5
Figure 3 — Measurement of insertion loss — test circuit	6
Table 1 — Coordinates of limit curves for power level in a 10 Hz bandwidth — speechband private circuits	4
Table 2 — Coordinates of power level limit curve above 4 kHz	4
Publication(s) referred to	Inside back cover

Preface

This British Standard, BS 6320, has been prepared during the run-up to the anticipated designation of NET4 in November 1992.

It has been prepared under the direction of the Telecommunications Standards Policy Committee.

The text for BS 6320:1992 set out herein has been approved by both the TCT/2/3 Subcommittee and the TCT/2 Technical Committee and is derived, after due consideration of the public comments received, from Draft for Public Comment 87/61563 DC.

However, because of the shortness of available time, it has not been possible to pursue the normal BSI procedure of correction and examination by the BSI's editorial department.

Consequently, this standard may contain errors and lack the quality of presentation of the documents usually published by BSI.

The readers and users of this standard are requested to be indulgent and to notify us of any errors or ambiguities that might be encountered.

Modems for Connection to Public Switched Telephone Networks and Speechband Private Circuits run by certain Public Telecommunication operators.

Foreword

This British Standard has been prepared under the direction of the Telecommunications Standards Policy Committee. It forms one of a series of British Standards that are being produced following the commencement of liberalization in October 1981 of the supply of certain telecommunications apparatus within the United Kingdom. This edition is a revision of BS 6320:1982 which it supersedes. The withdrawal of the 1982 edition will be announced at the appropriate time.

This series of standards includes product and facility specifications giving particular requirements for individual items of apparatus and facilities, together with standards covering general requirements for the connection of apparatus to the various public telecommunication systems (i.e. any telecommunication system designated as a public telecommunication system by an order made under section 9 of the telecommunication Act 1984). At the present time, these systems include the public switched telephone networks, the telex networks, the packet switching services, and leased private circuits run by British Telecommunications plc, Kingston Communications (Hull) plc and Mercury Communications Limited.

The requirements specified in the standards are intended to ensure the apparatus complying with them, when connected to public telecommunications systems, will neither adversely affect any public system nor interfere with the service available to other users of public telecommunication systems. The standards include safety requirements only for the protection of personnel operating the public telecommunication system and for the protection of users from hazards that may arise from the connection of the apparatus to that system.

This Standard is presented for designation under the Telecommunications Act, 1984.

It is stipulated in the Telecommunications Act 1984 that apparatus within the scope of a designated standard may only be approved for connection to a telecommunication system if it complies with that standard. Exceptions may be determined by or under the designation, which may stipulate variations of, or additions to, the requirements of the standard and may also set conditions that have to be complied with as regards the apparatus, or its connections, or its use.

A copy of any designation will be included when available with all copies of this Standard. Any further information on, or details of, the designation may be obtained from the Office of Telecommunications (OFTEL), Export House, 50 Ludgate Hill, London EC4M 7JJ.

Some apparatus may incorporate facilities for which a mandatory standard is necessary, but for which no standard has yet been designated for approval purposes under the Telecommunications Act 1984. Other apparatus may incorporate innovative features not foreseen when the relevant standard was written and designated and for which that standard is not fully appropriate. The British Approvals Board for Telecommunications (BABT) can sometimes deal with these cases by writing a "Special investigation test schedule" (SITS), which has the effect of stating requirements where there is no designated standard or of supplementing or varying the requirements in the application of the designated standard. Information on any relevant SITS may be obtained from the Director, BABT, Claremont House, 34 Molesey Road, Hersham, Walton-on-Thames, Surrey KT12 4RQ.