

Requirements for payphones for networks other than the ISDN

ICS 33.050.10

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee TCT/2, Analogue telecommunication networks, upon which the following bodies were represented:

- British Approvals Board for Telecommunications
- British Association of the Hard of Hearing
- British Telecommunications Plc
- Cable and Wireless Communications Plc
- Consumer Policy Committee of BSI
- Communications Workers Union
- DTI — Communications Information Industries Directorate
- Federation of the Electronics Industries
- Kingston Communications (Hull) Plc
- Telecommunications Industries Association
- Telecommunications Users Association (TUA)

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Foreword

This British Standard has been prepared by Technical Committee TCT/2, Analogue telecommunication networks.

The requirements specified in this standard are additional to any requirements for access or voice telephony that may be imposed under any regulatory regime as a condition of connection to the public telecommunications network. In particular, attention is drawn to the Telecommunications Act 1984¹⁾.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 15 and a back cover.

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¹⁾ The Telecommunications Act 1984 is available from The Stationery Office, PO Box 29, St Crispins House, Duke Street, Norwich NR3 1GN.

1 Scope

This British Standard specifies requirements for payphone apparatus:

- a) for connection to analogue PSTN lines (or equivalent interfaces provided behind a PABX);
- b) for connection to a cellular radio network; or
- c) that forms part of a public network (for example, public call boxes).

This British Standard is also applicable to any discrete payphone facility provided by serially-connected apparatus that supplies a connection by means of a socket conforming to BS 6312-2.

This standard is intended for use by payphone manufacturers, suppliers and service providers.

Requirements for network access or speech performance are outside the scope of this standard. This standard does also not apply to payphones for connection to the ISDN.

NOTE Requirements for payphones for connection to the ISDN are given in I-ETS 300 400.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this British Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the publication referred to applies.

BS 7940, *Analogue PSTN terminal support interface*.

ETS 300 001, *Attachments to Public Switched Telephone Network (PSTN) — General technical requirements for equipment connected to an analogue subscriber interface in the PSTN*.

ETS 300 381, *Telephony for hearing impaired people — Inductive coupling of telephone earphones to hearing aids*.

ETS 300 488, *Terminal Equipment (TE) — Telephony for hearing impaired people — Characteristics of telephone sets that provide additional receiving amplification for the benefit of the hearing impaired*.

ETS 300 640, *Human Factors (HF) — Assignment of alphabetic letters to digits on standard telephone keypad arrays*.

ETS 300 679, *Terminal Equipment (TE) — Telephony for the hearing impaired — Electrical coupling of telephone sets to hearing aids*.

ITU-T Recommendation P.51 (1993), *Telephone transmission quality — Objective measuring apparatus — Artificial Mouth*.

ITU-T Recommendation P.57 (1993), *Telephone transmission quality — Objective measuring apparatus — Artificial Ears*.

ITU-T Recommendation E.161 (1993), *Telephone network and ISDN — Operation, numbering, routing and mobile service — Arrangement of digits, letters and symbols on telephones and other devices that can be used for gaining access to a telephone network*.

3 Definitions and abbreviations

For the purposes of this standard, the following definitions and abbreviations apply.

3.1 Definitions

3.1.1

operator notification tone

tone transmitted to the network by a payphone when a call from a payphone to the operator is established, to identify that the calling apparatus is a payphone

3.1.2

payphone

apparatus which, after the provision of payment by any means such as by coins, pre-paid cards or credit/debit cards, permits outgoing calls to the network that provides the service

NOTE This does not preclude the provision of certain calls without payment.

3.1.3

payphone identification tone

tone transmitted to the network by the payphone when called to identify that the answering apparatus is a payphone

3.1.4

power fail

failure of the local mains power supply

NOTE Failure of internal batteries or of the exchange line d.c. supply are not included in this definition.

3.1.5

public emergency services

services that are accessed by dialling, for example, 999 or 112

3.1.6

public switched telephone network

nationwide public telephone network comprising interconnected telephone exchanges capable of switching telephone calls between telephones connected to the network

3.2 Abbreviations and units

CHV	Card holder verification
DTMF	Dual-tone multi-frequency
IC	Integrated circuit
ISDN	Integrated services digital network
PABX	Private automatic branch exchange
PNO	Public network operator
PSTN	Public switched telephone network
TE	Terminal equipment
dBPa	Absolute sound pressure level with respect to 1 Pa, expressed in decibels (dB)

4 Emergency access

4.1 Emergency service access without charge

Apparatus that can be used to make voice calls over a public switched network shall permit calls to the public emergency services without the need for payment to be proffered.

Conformity shall be demonstrated by simulating a successful call to all emergency service numbers without proffering payment.

4.2 Continuity of emergency service access

After dialling the emergency services number and before termination of the call by the user, real-time two-way speech shall be supported. Any digits signalled to the network may disrupt transmission only while they are being signalled.

Conformity shall be demonstrated by simulating a successful call to all emergency service numbers without proffering payment.

4.3 Emergency service access under power fail conditions

Under power fail conditions, apparatus that can be used to make voice calls over a public switched network shall provide the functions necessary to support calls to the emergency services and real-time two-way speech without the need to proffer payment.

Conformity shall be demonstrated by disconnecting any external source of power and simulating a successful call to all emergency service numbers without proffering payment.