



SLOVENSKI STANDARD SIST ETS 300 679 E1:2003

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Terminalna oprema (TE) – Telefonija za slušno prizadete – Telefonski aparati, električno spojeni s slušnimi pripomočki

Terminal Equipment (TE); Telephony for the hearing impaired; Electrical coupling of telephone sets to hearing aids

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Terminal Equipment (TE) Technical Committee of the European Telecommunications Standards Institute (ETSI).

| Transposition dates | |
|---|------------------|
| Date of adoption of this ETS: | 23 August 1996 |
| Date of latest announcement of this ETS (doa): | 31 December 1996 |
| Date of latest publication of new National Standard or endorsement of this ETS (dop/e): | 30 June 1997 |
| Date of withdrawal of any conflicting National Standard (dow): | 30 June 1997 |

Introduction

This ETS is the third in a series developed especially to meet the needs of people with hearing impairments who want to use the telephone. The first, ETS 300 381, covers inductive coupling and the second, ETS 300 488, covers additional amplification. This ETS covers the possibility of electrical coupling from a telephone set to a hearing aid, and all three ETSs are in general accordance with ITU-T Recommendation P.37. This ETS is intended to be compatible with the IEC Publication 118, Part 6, which covers the characteristics of electrical input ports for hearing aids. It is anticipated that electrical coupling would benefit a limited number of users and should be regarded as an additional method and not a replacement for inductive coupling.

It is envisaged that direct electrical connection between a hearing aid and a telephone set could be used in other applications that require electrical connection to the Public Switched Telephone Network (PSTN), for example to couple into other non-telephony amplification systems such as public address, or recording systems. Another alternative would be the direct electrical connection to a hearing aid transducer or headset, given that the device had sufficient sensitivity.

Some of the applications envisaged would need to address safety and/or protection issues and, although these and the applications themselves do not come within the scope of ETSI standards, attention is drawn to them here for information.

I-ETS 300 245-4 (covering the Additional Equipment Interface standard) could find application for coupling to the receive path of a telephone into a hearing aid.

NOTE: It is possible that the system described could enable hearing aid users to use low-powered GSM (Group Special Mobile) telephones or DECT (Digital Enhanced Cordless Telephone). In this case some attention would need to be paid to ensure that disturbing signals are controlled sufficiently to prevent modulated carrier signals from interfering with the hearing aid. It is not possible to be more specific at this stage.

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1 Scope

This European Telecommunication Standard (ETS) specifies the electrical characteristics for the electrical coupling of the telephony function implemented in Terminal Equipment (TE) to hearing aids. It specifies the level and frequency response relative to the acoustic output at the earphone, and also the noise and maximum level.

This ETS applies to all apparatus that is capable of supporting telephony and can be connected to the Public Switched Telephone Network (PSTN) or Integrated Services Digital Network (ISDN), which are intended for direct application to the ear, using for example traditional handsets or operator's headsets, and which provide an electrical output port for the prime purpose of coupling electrically to a hearing aid. This ETS may also be invoked for mobile apparatus and apparatus having cordless handsets that provide the facility for electrical coupling to hearing aids.

Although handsfree and loudspeaking devices are outside the scope of this ETS, if such apparatus also supports handset telephony as a separate function, this ETS may be invoked as part of that function.

2 Normative references

This ETS incorporates by dated and undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ITU-T Recommendation P.57 (1994): "Artificial ears".
- [2] IEC Publication 268-11 (1987): "Sound System Equipment Part 11: Application of Connectors for the Interconnection of Sound System Components".
- [3] CCITT Handbook on Telephonometry, ITU (1992).
- [4] ITU-T Recommendation P.64 (1994): "Determination of sensitivity/frequency characteristics of local telephone systems".
- [5] CCITT Recommendation P.53 (1988): "Psophometers (apparatus for the objective measurement of circuit noise)".

3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

| | |
|------|--|
| dBVp | Decibels relative to 1 Volt, psophometrically weighted |
| ERP | Ear Reference Point |
| ISDN | Integrated Services Digital Network |
| PSTN | Public Switched Telephone Network |
| TE | Terminal Equipment |