



SLOVENSKI STANDARD SIST ETS 300 672 E1:2003

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Transmission and Multiplexing (TM); Relevant generic characteristics of optical amplifier devices and sub-systems

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ICS:

33.040.20	Prenosni sistem	Transmission systems
33.180.30	U] cã } ã] b e ^ ç a } ã ã	Optic amplifiers

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Foreword

This European Telecommunication Standard (ETS) has been produced by the Transmission and Multiplexing (TM) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Transposition dates	
Date of adoption of this ETS:	16 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

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1 Scope

This European Telecommunication Standard (ETS) applies to Optical Amplifier (OA) devices and sub-systems to be used in transmission networks. It covers both Optical Fibre Amplifiers (OFAs) and Semiconductor Optical Amplifiers (SOAs).

The object of this ETS is to specify those generic characteristics relevant for the use of OA devices (as power amplifiers, pre-amplifiers or line amplifiers) and OA sub-systems (as optically amplified transmitters or optically amplified receivers), primarily for applications in digital transmission.

NOTE 1: As far as OFAs are concerned, the present ETS has been prepared from experience with Erbium-doped, silica-based fibre amplifiers, operating in the 1 550 nm wavelength region. Future OFAs, based on different active fibres and possibly operating in different wavelength regions, are not intended to be excluded from this ETS and may lead to additional specifications, as well as to modifications of the existing ones.

NOTE 2: The OFA aspects of the present ETS are mainly based on ITU-T Recommendations G.661 [2] and G.662 [3].

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 by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] ETS 300 232 (1993): "Transmission and Multiplexing (TM); Optical interfaces for equipments and systems relating to the Synchronous Digital Hierarchy [ITU-T Recommendation G.957 (1993) modified]".
- [2] ITU-T Recommendation G.661 (1993): "Definition and test methods for the relevant generic parameters of optical fibre amplifiers".
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- [3] ITU-T Recommendation G.662 (1995): "Generic characteristics of optical fibre amplifier devices and sub-systems".
- [4] IEC Publication 1290 series (1996): "Basic Specification for optical fibre amplifier test methods".