

ETSI TS 101 271 V1.2.1 (2013-08)



**Access, Terminals, Transmission and Multiplexing (ATTM);
Access transmission systems on metallic access cables;
Very High Speed digital subscriber line system (VDSL2)
[Recommendation ITU-T G.993.2 modified]**

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Foreword

This Technical Specification (TS) has been produced by ETSI Technical Committee Access, Terminals, Transmission and Multiplexing (ATTM).

The present document contains information on the European requirements for Very High Speed Digital Subscriber Line Systems (VDSL2). Unless specifically stated in the present document, the requirements are given in the Recommendation ITU-T G.993.2 [1] (Very high speed digital subscriber line transceivers 2).

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1 Scope

The present document provides the necessary adaptations to Recommendation ITU-T G.993.2 [1] for European applications and other information relevant to the European environment.

2 References

References are either specific (identified by date of publication and/or edition number or version number) or non-specific. For specific references, only the cited version applies. For non-specific references, the latest version of the reference document (including any amendments) applies.

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2.1 Normative references

The following referenced documents are necessary for the application of the present document.

- [1] Recommendation ITU-T G.993.2: "Very high speed digital subscriber line transceivers 2 (VDSL2)".
- [2] ETSI TS 101 388 (V1.4.1): "Access Terminals Transmission and Multiplexing (ATTM); Access transmission systems on metallic access cables; Asymmetric Digital Subscriber Line (ADSL) - European specific requirements [ITU-T Recommendation G.992.1 modified]".
- [3] Recommendation ITU-T G.227: "Conventional Telephone Signal".
- [4] Recommendation ITU-T G.993.5: "Self-FEXT cancellation (vectoring) for use with VDSL2 transceivers".
- [5] Broadband Forum TR-114: "VDSL2 Performance Test Plan".
- [6] Broadband Forum TR-115: "VDSL2 Functionality Test Plan".

2.2 Informative references

The following referenced documents are not necessary for the application of the present document but they assist the user with regard to a particular subject area.

- [i.1] ETSI ATTM TM6 Permanent Document TM6(97) 02, June 1998: "Cable reference models for simulating metallic access networks".

3 Definitions, symbols and abbreviations

3.1 Definitions

For the purposes of the present document, the following terms and definitions apply:

crest factor (CF): peak to rms voltage ratio