Power line communication apparatus used in low-voltage installations — Radio disturbance characteristics — Limits and methods of measurement

Part 1: Apparatus for in-home use
National foreword

This British Standard is the UK implementation of EN 50561-1:2013, incorporating corrigendum January 2015. Together with BS EN 55032:2015, it supersedes BS EN 55032:2012, which will be withdrawn on 5 May 2018. Together with BS EN 55032:2012, it supersedes BS EN 55022:2010, which will be withdrawn on 5 March 2017.

After 9 October 2016, BS EN 55032:2012 and BS EN 55022:2010 should no longer be used for the purposes of radio disturbance characteristics for in-home communication apparatus that use the low-voltage power installation as the transmission medium in the frequency range 1,606 5 MHz to 30 MHz.

The UK participation in its preparation was entrusted by Technical Committee GEL/210, EMC - Policy committee, to Subcommittee GEL/210/11, EMC product standards.

A list of organizations represented on this subcommittee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Limits and methods of measurement -
Part 1: Apparatus for in-home use

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Foreword

This document (EN 50561-1:2013) has been prepared by CLC/TC 210, "Electromagnetic compatibility (EMC)".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement  (dop) 2014-10-09
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2016-10-09

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

The scope is extended to the whole radio-frequency range from 9 kHz to 400 GHz, but limits are formulated only in restricted frequency bands, which are considered sufficient to reach adequate emission levels to protect radio broadcast and telecommunication services and to allow other apparatus to operate as intended at reasonable distance.

This document partially supersedes EN 55022:2010 and EN 55032:2012.
Introduction

The European Committee for Electrotechnical Standardization (CENELEC) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent given in EN 50561-1:2013.

CENELEC takes no position concerning the evidence, validity and scope of this patent right.

The holder of this patent right has assured CENELEC that he is willing to negotiate licenses under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with CENELEC. Information may be obtained from:

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Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. CENELEC shall not be held responsible for identifying any or all such patent rights.
1 Scope

This part of EN 50561 specifies limits and methods of measurement of radio disturbance characteristics for in-home communication apparatus that use the low-voltage power installation as the transmission medium. This part of EN 50561 applies to equipment that communicate over this medium in the frequency range 1,606.5 MHz to 30 MHz.

NOTE Similar equipment that communicate outside this frequency range is under study and will be covered by another European Standard.

Procedures are given for the measurement of signals generated by the equipment and limits are specified for the frequency range 9 kHz to 400 GHz. No measurement is required at frequencies where no limit is specified.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.


ITU-R Recommendation BS.560-3 ²), Radio-frequency protection ratios in LF, MF and HF broadcasting

ITU-R Recommendation BS.703, Characteristics of AM sound broadcasting reference receivers for planning purposes

ITU-R Recommendation BS.1615 ³), "Planning parameters" for digital sound broadcasting at frequencies below 30 MHz

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²) BS.560-3 is superseded by BS.560-4, Radio-frequency protection ratios in LF, MF and HF broadcasting

³) BS.1615 is superseded by BS.1615-1, "Planning parameters" for digital sound broadcasting at frequencies below 30 MHz