



SLOVENSKI STANDARD
SIST EN 55020:1995/A13:2000
01-april-2000

**Electromagnetic immunity of broadcast receivers and associated equipment -
Amendment A13**

Electromagnetic immunity of broadcast receivers and associated equipment

Störfestigkeit von Rundfunkempfängern und verwandten Geräten der
Unterhaltungselektronik

Immunité électromagnétique des récepteurs de radiodiffusion et des appareils associés

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Ta slovenski standard je istoveten z: EN 55020:1994/A13:1999

SIST EN 55020:1995/A13:2000
<https://standards.iteh.ai/catalog/standards/sist/89d11fd4-5806-46c7-a15a-fc1117b0860d/sist-en-55020-1995-a13-2000>

ICS:

33.100.20	Imunost	Immunity
33.160.01	Avdio, video in avdiovizualni sistemi na splošno	Audio, video and audiovisual systems in general

SIST EN 55020:1995/A13:2000 **en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 55020/A13

May 1999

ICS 29.020; 33.160.20

UDC 621.396.62:621.397.43:621.396.669.8:621.391.82:620.1:621.317.3

English version

Electromagnetic immunity of broadcast receivers and associated equipment

Immunité électromagnétique des récepteurs de radiodiffusion et appareils associés

Störfestigkeit von Rundfunkempfängern und verwandten Geräten der Unterhaltungselektronik

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This amendment A13 modifies the European Standard EN 55020:1994; it was approved by CENELEC on 1998-08-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This amendment exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

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Foreword

This amendment was prepared by SC 210A, EMC Products, of Technical Committee CENELEC TC 210, EMC.

The text of the draft was submitted to the formal vote and was approved by CENELEC as amendment A13 to EN 55020:1994 on 1998-08-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsed (dop) 1999-08-01
- latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2001-08-01

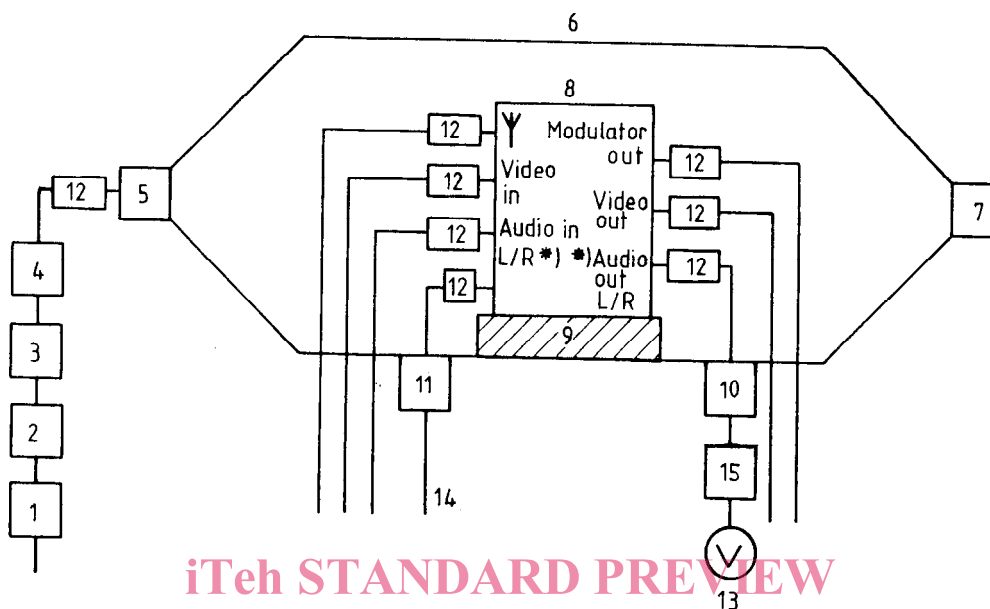
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19 Measurement of immunity from radiated fields

Figure 12, replace by:



- 1: AF generator 1 kHz G1
 2: RF generator G2 for unwanted signal
 3: Wideband power amplifier Am 0,15 MHz to 150 MHz
 4: Low-pass filter F
 5: Matching network MN (see figure E.5)
 6: Open stripline device TEM
 7: Terminating impedance 150 Ω (see figure E.6)
 8: Equipment under test
 9: Non-metallic support
 10: Loudspeaker band-stop filter LBS (see figure E.8)
 11: Mains band-stop filter MBS (see figure E.7)
 12: Sheath current chokes (ferrite cores) (sh)
 13: Audio frequency voltmeter (V)
 14: Mains cable
 15: Band pass filter (see figure B.2)

¹⁾ Channels 1 and 2 in the case of two channel sound television equipment.

Figure 12 - Measurement principle for the immunity of broadcast receivers from radiated fields in the frequency range 0,15 MHz to 150 MHz

Annex C

C.1 Construction of the coupling units

Replace the type indications A, M and L by: “AC”, “MC” and “LC”.

Figure C.1

- in the title, **replace** “type A” by “type AC”;
- **replace** legend 13 by: “Ferrite ring type C (see Annex G) with N turns of 2,4 mm outer diameter coaxial cable to produce 30 μ H”.

Figure C.2

- in the title, **replace** “type M” by “type MC”;
- **replace** legend 15 by: “Two ferrite rings type C (see Annex G) with N turns each, insulated copper wire to produce 60 μ H each”.

Figure C.3

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- in the title, **replace** “type L” by “type LC”;
- **replace** legend 18 by:

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Inductance 30 μ H asymmetrical.
Core: 1 ferrite ring type C (see Annex G).
Winding: N turns with twisted pair (2 leads copper wire 0,6 mm diameter, insulated, 1,2 mm outer diameter to produce 30 μ H).
Mounting of inductance similar to figure C.1.
Capacitors: C1 = 10 nF; C2 = 47 nF.

Annex E

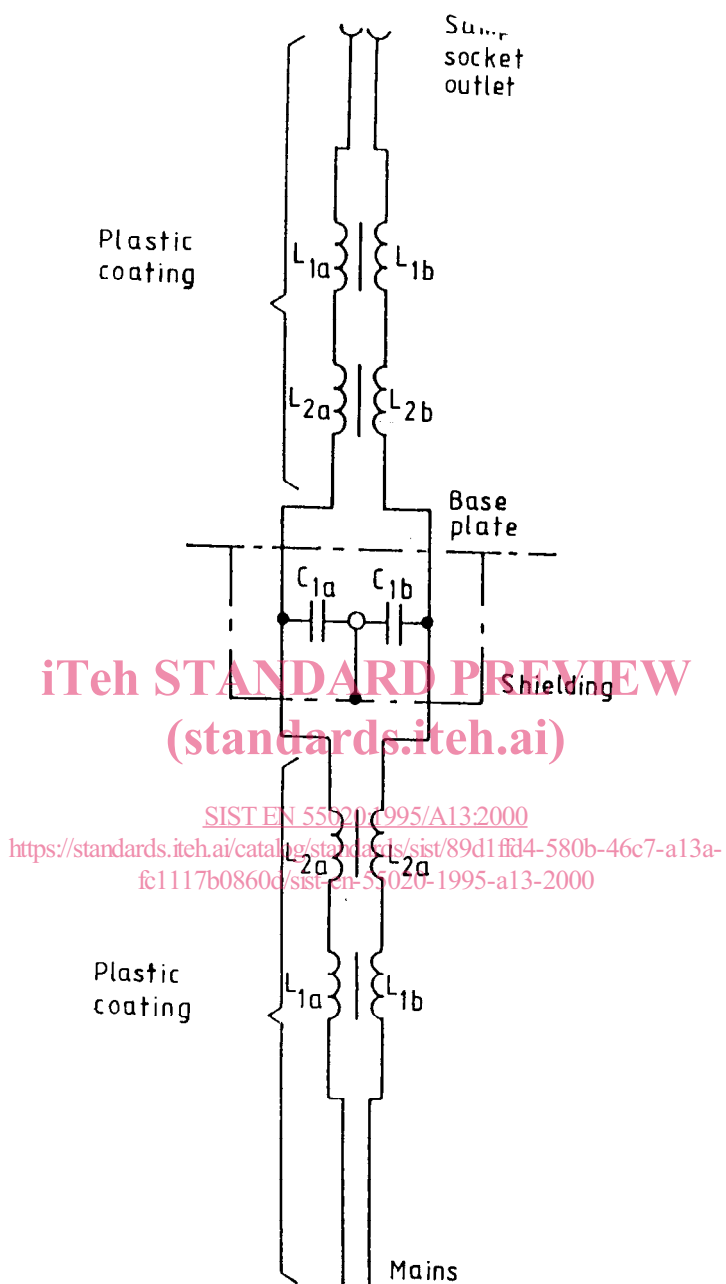
Replace the title by: “Construction information for the open stripline and for the mains and loudspeaker band-stop filters”

Replace the third and fourth paragraphs by:

A circuit for the mains band-stop filter MBS is given in Figure E.7. The filter used should have a minimum attenuation of 20 dB between 150 kHz and 30 MHz, and 50 dB between 30 MHz and 150 MHz, when measured with a 50 Ω source and load.

A circuit for the loudspeaker band-stop filter LBS is given in Figure E.8. The filter used should have a minimum attenuation of 20 dB between 150 kHz and 30 MHz, and 50 dB between 30 MHz and 150 MHz, when measured with a 50 Ω source and load.

Figure E.7, replace by:



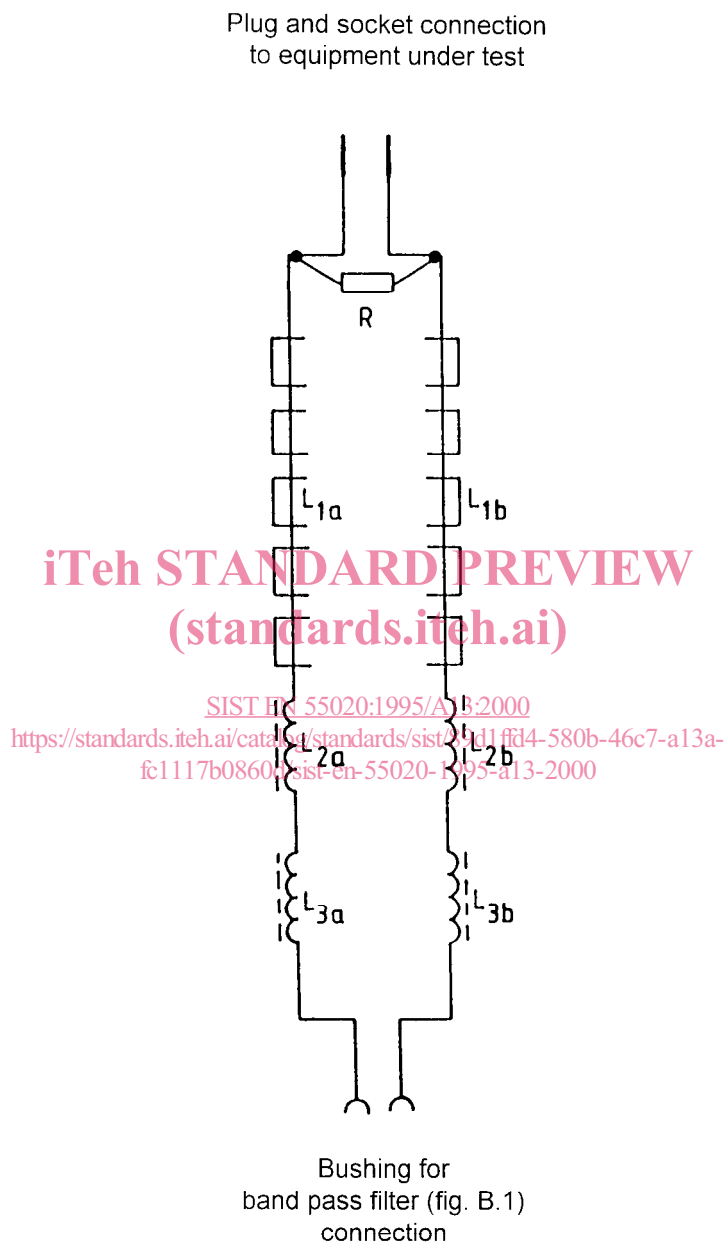
L_{1a}, L_{1b}: Inductance approximately 30 μ H, 1 MHz up to 50 MHz.
Core: 1 ferrite ring type A (see Annex G).
Winding: N turns to produce 30 μ H.

L_{2a}, L_{2b}: Inductance approximately 300 μ H, up to 1 MHz.
Core: 1 ferrite ring type B (see Annex G).
Winding: N turns to produce 300 μ H.

C_{1a}, C_{1b}: Coupling capacitors of 3.3 nF.

Figure E.7 - Band-stop filter type MBS (for mains connection)

Figure E.8, replace by:



R:	Nominal terminating impedance.
L1a, L1b:	5 ferrite beads each.
L2a, L2b:	Inductance approximately 70 μ H, 1 MHz up to 60 MHz.
Core:	1 ferrite ring type A (see Annex G).
Winding:	N turns 0,6 mm diameter enamelled copper wire to produce 70 μ H.
L3a, L3b:	Inductance approximately 2 mH, up to 1 MHz.
Core:	1 ferrite ring type B (see Annex G).
Winding:	N turns 0.6 mm diameter enamelled copper wire to produce 2 mH.

Non-conductive material shall be used for mounting and casing.

Figure E.8 - Band-stop filter type LBS (for loudspeaker connection)