

IRISH STANDARD SPECIFICATION

**SAFETY OF HOUSEHOLD AND
SIMILAR ELECTRICAL APPLIANCES,
Part 1, General Requirements**

I.S. 205: Part 1: 1980

Price £2.10

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS

Ballymun Road, Dublin 9

Telegrams: Research, Dublin Telex: 5449 Telephone: (01) 370101

FOREWORD

This standard specification was prepared by the Institute for Industrial Research and Standards based on a technical specification harmonized by the Electro-Technical Council of Ireland. The ETCI is the National body responsible for the harmonization of standards in the field of electro-technology and represents Ireland in IEC, CEE and CENELEC*.

The work of harmonization of national standards resulted in 1975 in the issue by CENELEC of Harmonization Documents 250 and 251 which were accepted unanimously by all member countries. H.D. 250 and 251 were based on CEE Publication 10+11, Parts 1, Second Editions 1964, including their associated Modifications 1 and 2 and Supplement 1.

These H.D.'s were not implemented by Ireland as CENELEC had decided to change the basis of its harmonization regarding domestic appliances from CEE Publications to an IEC Publication.

In 1977 CENELEC issued a new Harmonization Document H.D. 251 – S2 having no substantial change in technical content but based on IEC Publication 335–1 Second Edition 1976 “Safety of Household and Similar Electrical Appliances”.

This standard specification implements H.D. 251 – S2.

This standard specification is divided into three sections.

Section I and II taken together, contain the specification agreed unanimously among the CENELEC member countries.

Section III contains details of additional national requirements applying in Ireland.

A number of other CENELEC member countries have their own additional national requirements which have been agreed within CENELEC. Information on those requirements may be obtained from the Electro-Technical Council of Ireland, Ballymun Road, Dublin 9, Ireland.

This standard specification deals with the general requirements for safety of household and similar electrical appliances. For particular requirements dealing with safety of a particular type of appliance, reference should also be made to the standard specification for that particular type of appliance. The clauses in those particular specifications may amend the corresponding clauses in this standard specification. Where the text of the specification for that particular type of appliance indicates an “addition” to or a “replacement” of the relevant text of Part 1, these changes are made. Where no change is necessary, the words “This clause of Part 1 applies” are used.

* IEC = International Electrotechnical Commission

CEE = International Commission on Rules for the Approval of Electrical Equipment

CENELEC = European Committee for Electrotechnical Standardization

CENELEC member countries are Austria, Belgium, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

DECLARATION

OF

SPECIFICATION

ENTITLED

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES,

PART 1, GENERAL REQUIREMENTS

AS

**THE IRISH STANDARD SPECIFICATION FOR
SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES,
PART 1, GENERAL REQUIREMENTS**

The Institute for Industrial Research and Standards, in exercise of the power conferred by subsection (3) of section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry, Commerce and Tourism, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Safety of Household and Similar Electrical Appliances, Part 1, General Requirements) Declaration, 1980.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Safety of Household and Similar Electrical Appliances, Part 1, General Requirements.

(2) The said standard specification may be cited as Irish Standard 205: Part 1:1980 or as I.S. 205: Part 1:1980.

3. (1) The Standard Specifications:
(Electric Kettles) 1959 (I.S. 95:1959),
(Electric Toasters) 1960 (I.S. 99:1960),
(Electric Fires) 1960 (I.S. 101:1960),
(Electric Boiling-Plates) Declaration 1962 (I.S. 107:1962),
(Electric Immersion Heaters) Declaration 1962 (I.S. 108:1962),
(Thermal Storage Electric Water Heaters) Declaration 1963 (I.S. 112:1963) and
(Domestic Electric Irons) Declaration 1964 (I.S. 122:1964)

are hereby revoked.

(2) Reference in any other standard specification to the instruments hereby revoked and to Irish Standards 95:1959, 99:1960, 101:1960, 107:1962, 108:1962, 112:1963 and 122:1964, thereby prescribed, shall be construed respectively, as references to this Instrument and to Irish Standard 205: Part 1:1980.

SCHEDULE

Safety of Household and similar Electrical Appliances, Part 1, General Requirements

This standard specification comprises three sections:

SECTION I The requirements of IEC Publication 335 – 1 Second Edition 1976 English text apply including Amendments No. 1 December 1977, and No. 2 May 1979, the scope of which is reproduced.

SECTION II Amendments to **SECTION I**. These amendments have been accepted by all CENELEC member countries.

SECTION III Additional national requirements applicable to Ireland and agreed within CENELEC.

SECTION I

1. SCOPE

1.1 This standard applies to electric heating appliances and electric motor-operated or magnetically-driven appliances for household and similar purposes.

Appliances not intended for normal household use, but which nevertheless may be a source of danger to the public, such as appliances intended to be used by laymen in shops, in light industry and on farms, are within the scope of this standard. Example of such appliances are appliances for hairdressers, soldering irons, glue pots, sterilizers, infra-red radiation appliances, feed boilers, water pumps and lawn mowers.

Except in so far as this standard deals with electric toys, it does not take into account the special hazards which exist in nurseries and other places where there are young children or aged or infirm persons without supervision; in such cases additional requirements may be necessary.

This standard does not apply to:

- appliances designed exclusively for industrial purposes;
- appliances intended to be used in locations where special conditions prevail, such as the presence of a corrosive or explosive atmosphere (dust, vapour or gas);
- separate motors;
- appliances for high frequency heating except microwave ovens;
- radio and television receiving appliances;
- appliances for medical purposes.

Gramophones and similar motor-operated appliances intended to be used in, or in combination with, electronic equipment are tested together with such equipment.

For appliances intended to be used in vehicles or on board ships or aircraft, additional requirements may be necessary.

For appliances intended to be used in tropical countries, special requirements may be necessary.

1.2 This standard is concerned with safety and takes into account the influence on safety of components necessary to achieve a required degree of radio and television interference suppression.

The remainder of this section includes all other requirements of IEC Publication 335 – 1 Second Edition 1976 English text including Amendments No. 1 December 1977 and No. 2 May 1979.

SECTION II

AMENDMENTS TO I.E.C. PUBLICATION 335-1 SECOND EDITION

ACCEPTED BY ALL CENELEC MEMBER COUNTRIES

<i>Page</i>	<i>Line</i>	<i>Amendment</i>
07	01 to 28	Delete
07	43 to 59	Delete
09	20	Delete
19	03	Delete the “or” and replace with “are tested at 50 Hz, and those”
23	04	Delete “or rated current in amperes”
25	40 & 41	Add between the lines “Marking in bar is allowed”
27	18 & 19	Add between the lines “The ‘off’ position shall not be indicated by words only”.
37	42	Delete “embedded in the surface or”
39	Table	Delete “Terminals or terminations for type M, type Y and type Z attachments: – for power supply words without T marking 35 – for power supply cords with T marking T-25”.
49	22 & 23	Add between the lines “The cut-off frequency of 5000 Hz may, for example, be obtained by connecting a capacitor of 150 ± 7.5 nF in parallel with the resistive component of the measuring circuits. The measuring circuit may be partly or completely incorporated in the measuring instrument. If an instrument of the rectifier type is used, it must rectify linearly from 0.2 mA upwards within the frequency range of 20 to 10,000 Hz, and must be calibrated in r.m.s. values with a current of substantially sine-wave form.”
53	48 & 49	Delete and replace by “Compliance with this test does not imply that the appliance is suitable for operation when it is subject to water pressure”.
55	01 & 03	
59	(Table)	Delete Note (1) i.e. last two lines of the table.
61	15	Delete “or 19.8”
63	45 & 46	Add between the lines “A part is considered to be intentionally weak if its rupture involves the replacement of a complete component”.
65	35	Delete.
67	29	Delete.
71	31 & 32	Add between the lines “20.51 Appliances and their accessories shall show no sharp edges and burrs or the like, other than those necessary for the function of the appliance, which might cause injury to the user. Compliance is checked by inspection”.
73	22 & 23	Add between the lines, “In CEE Recommendation 7, a method is given for calibrating the spring-operated impact-test apparatus”.
75	29	Add after the word ‘contact’, “complying with CEE Publication 7.”
85	06 & 07	Add between the lines “In general, a surface is considered to be well rounded if its curvature has a radius of at least 1.5 mm.”
87	09	Add “except that power supply cords shall comply with CENELEC Harmonization Documents HD 21 and HD 22, and that safety isolating transformers shall comply with CEE Publication 15”.
87	37 & 38	Add between the lines “Switches not marked with individual ratings are tested under the conditions occurring in the appliance as follows: The currents and their corresponding power factors occurring in the switch during switching on and during operation in accordance with conditions of adequate heat discharge and/or under normal load of the appliance, are measured. The switch may then be tested separately, according to CEE

<i>Page</i>	<i>Line</i>	<i>Amendment</i>
		Publication 24, the switching on current and the corresponding power factor so measured being used for the breaking capacity test specified in Clause 15 of that Publication and the current and power factor measured under conditions of adequate heat discharge and/or normal load being used for the normal operation test specified in Clause 16 of that Publication”.
87	41	Delete.
87	46	Add “In some countries, other requirements may be valid for components”.
89	10 & 11	Add between the lines “If a single-phase Class I appliance with heating elements, which is intended to be permanently connected to fixed wiring, is provided with single pole switches and protection devices, these shall be inserted, inside the appliance, in the conductor supplying the heating element”.
89	34 & 35	Add between the lines, “24.51 for Class 01 and Class I appliances with heating elements and intended for use unattended, and which are not intended to be permanently connected to fixed wiring, the thermal cut-out, if any, shall disconnect all poles, unless a temperature sensing control is inserted, inside the appliance, in each conductor supplying the heating element. For two-phase and three-phase Class I appliances with heating elements and intended to be permanently connected to fixed wiring, the thermal cut-out, if any, shall disconnect all poles, unless a temperature sensing control is inserted, inside the appliance, in each conductor supplying the heating element. Compliance is checked by inspection. 24.52 Transformers used for safety purposes shall be short-circuit proof safety isolating transformers. Compliance is checked by inspection and by subjecting the transformer to the relevant tests of CEE Publication 15.”
89	38	Delete.
91	13	Delete.
91	22	Add after the word ‘wiring’ “other than those provided with pins intended to be introduced into fixed socket-outlets, shall be provided with:”
93	09 & 10	Add between the lines “If the use of heat resistant power supply cords is necessary, type X attachment shall not be used. For appliances with type M attachment, it shall not be possible to replace the power supply cord easily by a power supply cord for type X attachment”.
93	13	Add, “complying with IEC Publication 83, the Standards to be applied being as follows: – Class 0 and Class 01 appliances – Standard C1b, – Class I appliances – Standard C2b, C3b or C4, – Class III appliances – Standard C5 or C6”.
93	15 & 16	Delete and replace by “25.6 Power supply cords shall not be lighter than: if rubber insulated, ordinary tough rubber sheathed flexible cord (code designation H05 RR-F); – if polyvinyl chloride insulated: for appliances having a mass not exceeding 3 kg, light polyvinyl chloride sheathed flexible cord (code designation H03 VV-F or H03 VVH2-F) or ordinary polychloroprene sheathed flexible cord (code designation H05 RN-F); for appliances having a mass exceeding 3 kg, ordinary polyvinyl chloride sheathed flexible cord (code designation H05 VV-F or H03 VVH2-F)”.
93	Table	Delete the figures “10” and “13.5” in the first column of the table and replace by the figures “6” and “10” respectively.
93	30 & 31	Add between the lines “The code designations referred to are those given in HD 21 and HD 22”.

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