



NSAI
Standards

Irish Standard
I.S. 401:1997

Safety requirements for rewirable and non-rewirable 13A fused plugs for normal and rough use having insulating sleeves on live and neutral pins

I.S. 401:1997

*Relationship with other documents and/or
Incorporating amendments/corrigenda issued since publication:*

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I.S. xxx: Irish Standard – national specification based on the consensus of an expert panel and subject to public consultation.

S.R. xxx: Standard Recommendation - recommendation based on the consensus of an expert panel and subject to public consultation.

SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

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Údarás um Chaighdeáin Náisiúnta na hÉireann

DECLARATION
OF
SPECIFICATION
ENTITLED

SAFETY REQUIREMENTS FOR REWIREABLE AND NON-REWIREABLE 13A FUSED
PLUGS FOR NORMAL AND ROUGH USE HAVING INSULATING SLEEVES ON LIVE
AND NEUTRAL PINS

AS

THE IRISH STANDARD SPECIFICATION FOR
SAFETY REQUIREMENTS FOR REWIREABLE AND NON-REWIREABLE 13A FUSED
PLUGS FOR NORMAL AND ROUGH USE HAVING INSULATING SLEEVES ON LIVE
AND NEUTRAL PINS

NSAI in exercise of the powers conferred by section 16 of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declares as follows:

1. This instrument may be called the Standard Specification (Safety Requirements for Rewireable and Non-rewireable 13A Fused Plugs for Normal and Rough Use having Insulating Sleeves on Live and Neutral Pins) Declaration 2022.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared, pursuant to section 16(3) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996), to be the standard specification Safety Requirements for Rewireable and Non-rewireable 13A Fused Plugs for Normal and Rough Use having Insulating Sleeves on Live and Neutral Pins.

(2) The said standard specification may be cited as Irish Standard 401:1997 or as I.S. 401:1997.

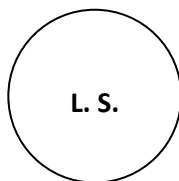
(3) A reference to Irish Standard 401:1997 or I.S. 401:1997 published by NSAI before the making of this declaration shall be deemed to be a reference to the standard specification declared under this instrument.
3. The Standard Specification (Safety Requirements for Rewireable and Non-rewireable 13A Fused Plugs for Normal and Rough Use having Insulating Sleeves on Live and Neutral Pins) Declaration 1997 is hereby amended, pursuant to section 16(5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996), by -
 - (a) the deletion of paragraph 2,
 - (b) the deletion of sub-paragraph 3(2).

I.S. 401:1997

4. Reference in any other standard specification to the instruments revoked by sub-paragraph 3. (1) of Standard Specification (Safety Requirements for 13A Fused Plugs for Normal and Rough Use Having Insulating Sleeves on Live and Neutral Pins) Declaration 1997, or to Irish Standard 401:1988 or its amendments therein prescribed, shall be construed, respectively, as references to this instrument and to Irish Standard 401:1997.

GIVEN under the seal of the National Standards Authority of Ireland

This 11th day of May 2022



Geraldine Larkin
Chief Executive

Justin Tallon
Standards Publication Manager

The Minister for Enterprise Trade and Employment hereby gives his consent under Section 16 of the National Standards Authority of Ireland Act, 1996 to the above declaration.

Conor Verdon

19th May 2022

An officer of the Department of Enterprise, Trade and Employment duly authorised under Section 15 (4) of the Ministers and Secretaries Act, 1924, to authenticate instruments (under the National Standards Authority of Ireland Act, 1996) made by the Minister for Enterprise, Trade and Employment.

DECLARATION

OF

SPECIFICATION

ENTITLED

**SAFETY REQUIREMENTS FOR REWIREABLE AND NON-REWIREABLE 13A FUSED
PLUGS FOR NORMAL AND ROUGH USE HAVING INSULATING SLEEVES ON LIVE
AND NEUTRAL PINS**

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THE IRISH STANDARD SPECIFICATION FOR

**SAFETY REQUIREMENTS FOR REWIREABLE AND NON-REWIREABLE 13A FUSED
PLUGS FOR NORMAL AND ROUGH USE HAVING INSULATING SLEEVES ON LIVE
AND NEUTRAL PINS**

NSAI in exercise of the power conferred by section 16 (5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Safety requirements for rewireable and non-rewireable 13A fused plugs for normal and rough use having insulating sleeves on live and neutral pins) Declaration, 1997.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Safety requirements for rewireable and non-rewireable 13A fused plugs for normal and rough use having insulating sleeves on live and neutral pins.

(2) The said standard specification may be cited as Irish Standard 401 : 1997 or as I.S. 401 : 1997.

3. (1) The Standard Specification (Safety Requirements for Rewireable 13A Fused Plugs for Normal and Rough Use Having Insulating Sleeves on Line and Neutral Pins) Declaration, 1986 and its Amendments are hereby revoked.

(2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 401:1986 and its Amendments thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 401:1997.

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FOREWORD

This Irish Standard Specification has been prepared under the direction of the National Standards Authority of Ireland.

It covers rewirable and non-rewirable 13A fused plugs for both normal and rough use, having insulating sleeves on live and neutral pins.

This standard specification is aligned with the British Standard 1363:1995 "13A fused plugs, adaptors and connection units - Part 1: Specification for rewirable and non-rewirable 13A fused plugs". The clause numbers of this Irish Standard are aligned with the clause numbers of the British Standard.

The technical requirements of this standard specification are similar to those for plugs in the British Standard 1363:1995 Part 1. The National Standards Authority of Ireland hereby acknowledges the assistance derived from British Standard 1363:1995 Part 1 in drawing up the Irish Standard Specification.

Reference Standards

I.S. 201:1989	Polyvinyl Chloride (PVC) insulated cable and flexible cords of rated voltage up to and including 450/750 V
I.S. 202:1989	Rubber insulated cables and flexible cords of rated voltage U_0/U up to and including 450/750 V
I.S./HD 601:1996	Test probes to verify protection by enclosures (IEC 1032:1990 + Corrigendum September 1990)
I.S./EN 29453:1994	Soft solder alloys - Chemical compositions and forms (ISO 9453:1990)
HD 214 S2:1980	CENELEC Harmonized Document. Method of test for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions
HD 444.2.1:1983	CENELEC Harmonized Document. Fire hazard testing - Part 2: Glow wire test
IEC 417	International Electrotechnical Commission Standard:1973 Graphical symbols for use on electrical equipment (includes its supplements)
BS 1362:1973	British Standard Specification for general purpose fuse links for domestic and similar purposes (primarily for use in plugs)
BS 1363:Part 2:1995	British Standard Specification for 13 A switched and unswitched socket-outlets
BS 4662:1970	British Standard Specification for boxes for the enclosure of electrical accessories

NOTE: All standards referenced may be obtained from Standards Sales Office, National Standards Authority of Ireland, Glasnevin, Dublin 9.
Tel: +353-1-8073800 Fax: +353-1-8073841

SCHEDULE

Safety Requirements for Rewireable and Non-rewireable 13A Fused Plugs for Normal and Rough Use Having Insulating Sleeves on Live and Neutral Pins

1 SCOPE

This Irish Standard specifies requirements for 13 A fused plugs having insulating sleeves on line and neutral pins, for household, commercial and light industrial purposes, with particular reference to safety in normal use. The plugs are suitable for the connection of portable appliances, sound-vision equipment, luminaires, etc., in a.c. circuits only, operating at voltages not exceeding 250V rms at 50 Hz.

Requirements are specified for plugs incorporating a fuselink complying with BS 1362. The plugs may be rewireable or non-rewireable complete with flexible cord. Two categories of plugs are specified covering normal and rough use. Rewireable plugs are intended for use with flexible cords complying with I.S. 201 or I.S. 202 having conductor cross-sectional areas from 0.5 mm² to 1.5 mm² inclusive as referred to in 19.1. Non rewireable plugs are intended for use with flexible cords having conductor cross-sectional areas not exceeding 1.5 mm² as referred to in 19.4. Plugs containing switches and devices other than indicator lamps are outside the scope of this standard.

NOTE: Requirements for electromagnetic compatibility are not given because a plug does not emit intolerable electromagnetic interference and by its nature is immune from electromagnetic interference.

2 CONDITIONS OF USE

Plugs shall be suitable for use under the following conditions

- (a) an ambient temperature in the range -5 °C to + 40 °C, the average value over 24 h not exceeding 25 °C;

NOTE: Under normal conditions of use, the available cooling air is subject to natural atmospheric variations of temperature and hence the peak temperature occurs only occasionally during the hot season, and on those days when it does occur it does not persist for lengthy periods.

- (b) a situation not subject to exposure to direct radiation from the sun or other source of heat likely to raise temperatures above the limits specified in (a);
- (c) an altitude not exceeding 2000 m above sea level;
- (d) an atmosphere not subject to abnormal pollution by smoke, chemical fumes, rain, spray, prolonged periods of high humidity or other abnormal conditions.

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