National Standards Authority of Ireland

IRISH STANDARD

I.S. 202:Part 11:2003

ICS 29.060.20

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CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750V AND HAVING CROSS-LINKED INSULATION

PART 11: EVA CORDS AND FLEXIBLE CABLES

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Price Code E

Údarás um Chaighdeáin Náisiúnta na hÉireann

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DECLARATION

OF

SPECIFICATION

ENTITLED

CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750V AND HAVING CROSS-LINKED INSULATION

PART 11: EVA CORDS AND FLEXIBLE CABLES

AS

THE IRISH STANDARD SPECIFICATION FOR

CABLES OF RATED VOLTAGES UP TO AND INCLUDING 450/750V AND HAVING CROSS-LINKED INSULATION

PART 11: EVA CORDS AND FLEXIBLE CABLES

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 (Cables of rated voltages up to and including 450/750V and having cross-linked insulation Part 11: EVA Cords and Flexible Cables) Declaration, 2003.

2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Cables of rated voltages up to and including 450/750V and having cross-linked insulation Part 11: EVA Cords and Flexible Cables.

   (2) The said standard specification maybe cited as Irish Standard 202: Part 11:2003 or as I.S. 202: Part 11:2003.

3. (1) The Standard Specification, Rubber Insulated Cable and Flexible Cords of Rated Voltage up to and including 450/750V Declaration 1989, is hereby revoked.

   (2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 202:1989 thereby prescribed, shall be construed, respectively, as references to this Instrument and to Irish Standard 202:2003.

FOREWORD

The Irish Standard Specification I.S. 202:Part 11:2003, was prepared by the National Standards Authority of Ireland on the basis of a submission from Technical Committee No. 14 which is a Technical Subcommittee of 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 and CENELEC.

I.S. 202 now has the following parts:

I.S. 202:Part 1 - General requirements
I.S. 202:Part 2 - Test methods
I.S. 202:Part 3 - Heat resistant silicone rubber insulated cables
I.S. 202:Part 4 - Cords and flexible cables
I.S. 202:Part 5 - (Spare)
I.S. 202:Part 6 - Arc welding cables
I.S. 202:Part 7 - Cables with increased heat resistance for internal wiring for a conductor temperature of 110°C
I.S. 202:Part 8 - Polychloroprene or equivalent synthetic elastomer sheathed cable for use as decorative chains
I.S. 202:Part 9 - Single core non-sheathed cables for fixed wiring having low emission of smoke and corrosive gases
I.S. 202:Part 10 - EPR insulated and polyurethane sheathed flexible cables
I.S. 202:Part 11 - EVA cords and flexible cables
I.S. 202:Part 12 - Heat resistant EPR cords and flexible cables
I.S. 202:Part 13 - Single and multicore flexible cables, insulated and sheathed with crosslinked compound and having low emission of smoke and corrosive gases
I.S. 202: Part 14 - Cords for applications requiring high flexibility
I.S. 202: Part 15 - Multicore cables insulated and shielded with heat-resistant silicone rubber
I.S. 202: Part 16 - Water resistant polychloroprene or equivalent synthetic elastomer sheathed cables

In order that this revision of Part 11 of I.S. 202 does not introduce unnecessary changes to long-established clause numbers, the Normative References (which would otherwise be inserted as clause 2) are given in Annex A.

Schedule

Cables of rated Voltages up to and including 450/750V and having cross-linked insulation

Part 11: EVA cords and flexible cables

1. Scope

This part (Part 11) of the Standard details the particular specifications for vulcanised EVA or equivalent synthetic elastomer insulated and vulcanised EVA or equivalent synthetic elastomer sheathed cords and flexible cables of rated voltages up to and including 300/500V for use with a conductor temperature not exceeding 110°C.

All cables shall comply with the appropriate requirements given in Part 1 and the individual types of cable shall each comply with particular requirements of this Part.

NOTE: The overall dimensions of the cables in this part of I.S. 202 have been calculated in accordance with EN 60719.

2. Normative references

I.S. 202:Part 11 incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to I.S. 202.11 only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

I.S. 270 Conductors of insulated cables (Endorsing IEC 228 and 228A)
I.S. EN 60811 *Series* Insulating and sheathing materials of electric and optical cables - Common test methods
I.S. EN 60719 Calculation of the lower and upper limits for the average outer dimensions of cables with circular copper conductors and of rated voltages up to and including 450/750V

3. Ordinary heat-resistant EVA or equivalent synthetic elastomer insulated and EVA or equivalent synthetic elastomer sheathed cord and cable for a maximum conductor temperature of 110°C

3.1 Code designation

H05GG-F for circular cables
H05GGH2-F for flat cables

3.2 Rated voltage

300/500V

3.3 Construction

3.3.1 Conductor

Number of conductors: 2, 3, 4 or 5.

The conductors shall be in accordance with the requirements given in I.S. 270 for Class 5 conductors. The wires may be plain or tinned.

3.3.2 Separator

A separator of suitable material shall be applied around each conductor if the conductors are plain. If the conductors are tinned the use of a separator is optional.

3.3.3 Insulation

The insulation shall be rubber compound of Type EI 3 applied around each conductor.