

SS IEC 63294:2023
IEC 63294:2021, IDT
(ICS 29.060.20)

SINGAPORE STANDARD

Test methods for electric cables with rated voltages up to and including 450/750 V

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National Foreword

This Singapore Standard was prepared by the Working Group on Electric Cables set up by the Technical Committee on Electrical and Electronic Products under the purview of the Electrical and Electronic Standards Committee.

This standard is an identical adoption of IEC 63294:2021, "Test methods for electric cables with rated voltages up to and including 450/750 V", published by the International Electrotechnical Commission.

Attention is also drawn to the following:

1. Where the words 'IEC 60227' appear, they should be read as 'Singapore Standard 358', where applicable.
2. Where the words "relevant cable standard" appear in clauses 5.2, 5.3.3 & 5.4, they should be read as Table 3 of SS 358 : Part 1.
3. The following parts of IEC 60227 are replaced by SS 358 under the general title : Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V:

IEC 60227-1 SS 358 : Part 1 : General requirements

IEC 60227-3 SS 358 : Part 3 : Non-sheathed cables for fixed wiring

IEC 60227-5 SS 358 : Part 5 : Flexible cables (cords)

SS 358 : Part 3 and 5 are for particular types of cable and should be read in conjunction with SS 358 : Part 1 and SS IEC 63294: 2023. Further parts may be added as other types are standardised.

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Test methods for electric cables with rated voltages up to and including
450/750 V**

**Méthodes d'essais pour les câbles électriques de tension assignée au plus
égale à 450/750 V**





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**Méthodes d'essais pour les câbles électriques de tension assignée au plus
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INTERNATIONAL
ELECTROTECHNICAL
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**TEST METHODS FOR ELECTRIC CABLES WITH
RATED VOLTAGES UP TO AND INCLUDING 450/750 V**
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This first edition cancels and replaces IEC 60227-2:1997, IEC 60227-2:1997/AMD1:2003, IEC 60245-2:1994, IEC 60245-2:1994/AMD1:1997, IEC 60245-2:1994/AMD2:1997, IEC 62821-2:2015 and IEC 63010-2:2017. A table of cross-references for tests is given in Annex A.

The text of this International Standard is based on the following documents:

Draft	Report on voting
20/1970/FDIS	20/1990/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications.

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TEST METHODS FOR ELECTRIC CABLES WITH RATED VOLTAGES UP TO AND INCLUDING 450/750 V

1 Scope

This document specifies the test methods for electric cables with rated voltages up to and including 450/750 V not included in the IEC 60811 series.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60811-201, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 201: General tests – Measurement of insulation thickness*

IEC 60811-202, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 202: General tests – Measurement of thickness of non-metallic sheath*

IEC 60811-203, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 203: General tests – Measurement of overall dimensions*

IEC 60811-401:2012, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 401: Miscellaneous tests – Thermal ageing methods – Ageing in an air oven*

IEC 60811-501, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 501: Mechanical tests – Tests for determining the mechanical properties of insulating and sheathing compounds*

IEC 62230, *Electric cables – Spark-test method*

IEC 60502-1, *Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2$ kV) up to 30 kV ($U_m = 36$ kV) – Part 1: Cables for rated voltages of 1 kV ($U_m = 1,2$ kV) and 3 kV ($U_m = 3,6$ kV)*

ISO 1302, *Geometrical Product Specifications (GPS) – Indication of surface texture in technical product documentation*

3 Terms and definitions

No terms and definitions are listed in this document.

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