

INTERNATIONAL STANDARD

**Charging cables for electric vehicles of rated voltage up to and including
0,6/1 kV –
Part 2: Test methods**





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IEC Central Office
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
Fax: +41 22 919 03 00
info@iec.ch
www.iec.ch

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0,6/1 kV –
Part 2: Test methods**

INTERNATIONAL
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CONTENTS

FOREWORD.....	4
1 Scope.....	6
2 Normative references	6
3 Terms and definitions	6
4 General requirements	7
4.1 Pre-conditioning.....	7
4.2 Test temperature	7
4.3 Test voltage.....	7
4.4 Test values	7
5 Test methods.....	7
5.1 Electrical test methods.....	7
5.1.1 Long term resistance of insulation to DC	7
5.2 Weathering/UV resistance test.....	8
5.2.1 General	8
5.2.2 Apparatus.....	8
5.2.3 Procedure.....	8
5.2.4 Requirements	8
5.3 Resistance against chemicals	8
5.3.1 Test conditions	8
5.3.2 Requirements to resistance against chemicals.....	9
5.4 Water resistance test	9
5.4.1 General	9
5.4.2 Procedure.....	9
5.4.3 Requirements	9
5.5 Tear resistance test	9
5.5.1 Sampling and preparation of the test piece	9
5.5.2 Conditioning of test pieces.....	10
5.5.3 Test procedure	10
5.5.4 Expression of results	10
5.6 Determination of carbonification value.....	11
5.6.1 Definitions	11
5.6.2 Test equipment and material.....	11
5.6.3 Preparation.....	11
5.6.4 Test procedure	11
5.6.5 Evaluation of test result	12
5.6.6 Requirement.....	12
5.7 Crush resistance test	12
5.7.1 General	12
5.7.2 Test conditions – Apparatus	12
5.7.3 Test conditions – Preparation of specimens.....	12
5.7.4 Test conditions – Method.....	12
5.7.5 Test conditions – Requirements.....	13
5.8 Cold impact test.....	13
5.8.1 Test conditions	13
5.8.2 Requirements	13
Bibliography.....	14

Figure 1 – Test piece for tear resistance test 10

Figure 2 – Test piece before being placed in the jaws of the tensile testing machine 11

Table 1 – Test-medium for resistance against chemicals 9

Table 2 – Parameters for cold impact test 13

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**CHARGING CABLES FOR ELECTRIC VEHICLES
OF RATED VOLTAGES UP TO AND
INCLUDING 0,6/1 kV –**

Part 2: Test methods

FOREWORD

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International Standard IEC 62893-2 has been prepared by IEC technical committee 20: Electric cables.

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

FDIS	Report on voting
20/1763/FDIS	20/1774/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 62893 series, published under the general title *Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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CHARGING CABLES FOR ELECTRIC VEHICLES OF RATED VOLTAGES UP TO AND INCLUDING 0,6/1 kV –

Part 2: Test methods

1 Scope

This part of IEC 62893 specifies test methods which are particular for cables with extended insulation and sheath having a voltage rating of up to and including 0,6/1 kV AC or up to and including 1 500 V DC for flexible applications under harsh conditions for the power supply between the electricity supply point or the charging station and the electric vehicle (EV).

General requirements are specified in IEC 62893-1 and particular types of cables are specified in IEC 62893-3 and the intended future IEC 62893-4 on DC charging.

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 60811-501:2012, *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 60811-506, *Electric and optical fibre cables – Test methods for non-metallic materials – Part 506: Mechanical tests – Impact test at low temperature for insulations and sheaths*

IEC 62893-1, *Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV – Part 1: General requirements*

ISO 1817, *Rubber vulcanized or thermoplastic – Determination of the effect of liquids*

ISO 6722-1, *Road vehicles – 60 V and 600 V single-core cables – Part 1: Dimensions, test methods and requirements for copper conductor cables*

ISO 22241-1, *Diesel engines – NO_x reduction agent AUS 32 – Part 1: Quality requirements*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 62893-1 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
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