

# TECHNICAL REPORT

# RAPPORT TECHNIQUE

**Environmental statement specific to IEC TC 20 – Electric cables**

**Déclaration environnementale spécifique au TC 20 de la CEI – Câbles électriques**

Withhold



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INTERNATIONAL  
ELECTROTECHNICAL  
COMMISSION

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ELECTROTECHNIQUE  
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**ENVIRONMENTAL STATEMENT SPECIFIC TO IEC TC 20 –  
ELECTRIC CABLES**

## FOREWORD

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IEC/TR 62125, which is a technical report, has been prepared by IEC technical committee 20: Electric cables.

This report should be used in conjunction with ISO Guide 64, with technical report ISO/TR 14062, and with IEC Guide 109.

The text of this technical report is based on the following documents:

|               |                  |
|---------------|------------------|
| Enquiry draft | Report on voting |
| 20/868/DTR    | 20/880/RVC       |

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

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

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

Withdrawn

## INTRODUCTION

The cable sector has always considered the impact of electric cables on the environment, in relation to their service conditions, and particularly for utility cables. Over the years, energy utilities have considerably increased their requirements to take into account the environmental impact of electric cables.

IEC TC 20 is constantly reviewing its approach to the incorporation of environmental aspects into standards for electric cables and their components. Environmental considerations should be included in both design and redesign work with respect to the raw materials used, energy consumption and emissions during production, end of life disposal or recycling, and in-service performance.

For example, there is an environmental demand for more efficient operation of electric cables (lower transmission losses, reduced heating effects, and, as a result, lower emission of greenhouse gases). There is some information on suitable cable design parameters to achieve lower losses. Unfortunately, diverse pressures from a number of interests usually result in the need to compromise in this area.

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# ENVIRONMENTAL STATEMENT SPECIFIC TO IEC TC 20 – ELECTRIC CABLES

## 1 Scope

IEC/TR 62125, which is a technical report, is intended to give assistance to standard-writers of IEC Technical Committee 20, to take into account the relevant environmental aspects as far as they are specific to electric cables in normal use. It also assists them to keep in mind a clear methodology when considering these aspects and when checking possible interaction of the normative requirements with the environment. Also, these guidelines assist standard-writers to avoid too simple or too stringent requirements that might not achieve a favourable global result.

This technical report, by its very nature, is not prescriptive and does not limit innovation.

NOTE 1 The term 'environment', as used in this report, differs from the term as used in those IEC standards dealing with the impact of environmental conditions on electrotechnical products (see 3.1).

NOTE 2 As regards the impact of environmental conditions on the performance of products, reference is made to IEC 60068, IEC 60721 and IEC Guide 106.

## 2 Normative references

The following referenced documents are indispensable for the application 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 Guide 109, *Environmental aspects – Inclusion in electrotechnical product standards*

ISO Guide 64, *Guide for the inclusion of environmental aspects in product standards*

ISO/TR 14062, *Environmental management – Integrating environmental aspects into product design and development*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1 environment

all attributes which affect the quality of life, such as water, air, and soil quality, conservation of energy and materials and avoidance of waste

### 3.2 life cycle

consecutive and interlinked stages of the manufacture, installation, use, and disposal of a product, from raw material acquisition or generation of natural resources to the final disposal

NOTE The raw material is considered to be the base raw material, incorporated in relevant products.

### 3.3 life cycle approach

methodology of taking into account the life cycle of a product in order to assess the consequences on the environment