

**Jõu-, juhtimis- ja kommunikatsioonikaablid.  
Ehitustöödel kasutatavad üldtarbekaablite reageerimise  
nõuded tulele**

**Power, control and communication cables - Cables for  
general applications in construction works subject to  
reaction to fire requirements**

<b>EESTI STANDARDI EESSÕNA</b>	<b>NATIONAL FOREWORD</b>
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ICS 13.220.50; 29.060.20

English Version

## Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

Câbles d'énergie, de commande et de communication - Câbles pour applications générales dans les ouvrages de construction soumis aux exigences de réaction au feu

Starkstromkabel und -leitungen, Steuer- und Kommunikationskabel - Kabel und Leitungen für allgemeine Anwendungen in Bauwerken in Bezug auf die Anforderungen an das Brandverhalten

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Comité Européen de Normalisation Electrotechnique  
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## Foreword

This document (EN 50575:2014) has been jointly prepared by CLC/TC 20 "Electric cables", CLC/TC 46X "Communication cables" and its sub-committees and CLC/TC 86A "Optical fibres and optical fibre cables".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2015-08-11
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2017-08-11

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document.

Performance characteristics other than those covered by the standard may be subject to the provisions of other relevant directives and Regulations, for example the Low Voltage directive (2006/95/EC).

## 1 Scope

This European Standard specifies reaction to fire performance requirements, test and assessment methods for electric cables used for the supply of electricity and for control and communication purposes, which are intended for use in construction works and subject to performance requirements on reaction to fire.

The cables covered by this standard are intended to be used for the supply of electricity and communications in buildings and other civil engineering works with the objective of limiting the generation and spread of fire and smoke.

Cables intended to be used for the supply of electricity, communication, and fire detection and alarm in buildings and other civil engineering works where it is essential to assure the continuity of power and/or signal supply of safety installations such as alarm, way guidance and fire fighting installations are not covered by this standard.

NOTE This European Standard does not replace the electrical, mechanical and environmental requirements that are essential to demonstrate compliance with other applicable cable standards/specifications.

This European Standard covers:

- power cables – insulated conductors and cables for use in, e.g. the supply of electricity;
- control and communication cables – wires, symmetric cables, and coaxial cables with metallic conductors for use in, e.g. telecommunication, data transmission, radio frequency, video communication and signalling and control equipment;
- optical fibre cables – for use in, e.g. telecommunication, data transmission, radio frequency, video communication and signalling and control equipment.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13501-6, *Fire classification of construction products and building elements — Part 6: Classification using data from reaction to fire tests on electric cables*

EN 50399, *Common test methods for cables under fire conditions — Heat release and smoke production measurement on cables during flame spread test — Test apparatus, procedures, results*

EN 60332-1-2, *Tests on electric and optical fibre cables under fire conditions — Part 1-2: Test for vertical flame propagation for a single insulated wire or cable — Procedure for 1 kW pre-mixed flame (IEC 60332-1-2)*

EN 60754-2, *Test on gases evolved during combustion of materials from cables — Part 2: Determination of acidity (by pH measurement) and conductivity (IEC 60754-2)*

EN 61034-2, *Measurement of smoke density of cables burning under defined conditions — Part 2: Test procedure and requirements (IEC 61034-2)*

EN ISO 1716, *Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value) (ISO 1716)*