

Safety in electroheat installations —

Part 10: Particular requirements for electrical resistance trace heating systems for industrial and commercial applications

The European Standard EN 60519-10:2005 has the status of a British Standard

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National foreword

This British Standard is the official English language version of EN 60519-10:2005. It is identical with IEC 60519-10:2005.

The UK participation in its preparation was entrusted to Technical Committee PEL/27, Electroheating, which has the responsibility to:

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- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Summary of pages

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Part 10: Particular requirements for electrical resistance trace heating
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(IEC 60519-10:2005)

Sécurité dans les installations
électrothermiques
Partie 10: Règles particulières pour
les systèmes de chauffage par traçage
à résistance électrique pour applications
industrielles et commerciales
(CEI 60519-10:2005)

Sicherheit in Elektrowärmeanlagen
Teil 10: Besondere Anforderungen an
elektrische Trace-Widerstandsheizungen
für industrielle und gewerbliche Zwecke
(IEC 60519-10:2005)

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Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The text of document 27/468/FDIS, future edition 1 of IEC 60519-10, prepared by IEC TC 27, Industrial electroheating equipment, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60519-10 on 2005-08-01.

This part of EN 60519 shall be used in conjunction with EN 60519-1:2003.

The following dates were fixed:

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|--|-------|------------|
| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2006-05-01 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2008-08-01 |

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60519-10:2005 was approved by CENELEC as a European Standard without any modification.

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INTRODUCTION

This part of IEC 60519 provides safety requirements for electrical resistance trace heating systems used in industrial and commercial applications for piping, vessels, roofs, concrete slab heating and other similar applications.

It is the objective of this standard that, when in accordance with the standard, electrical trace heating systems shall operate safely under their normal defined conditions of use, by

- a) employing heaters of the appropriate construction and meeting the test criteria detailed in a separate document that is under consideration (future IEC 62395-1);
- b) operating at safe temperatures when designed, installed, and maintained in accordance with a separate document that is under consideration (future IEC 62395-2);
- c) having at least the minimum levels of overcurrent and ground-fault protection, and an evenly distributed electrically conductive metallic braid, sheath or other equivalent electrically conductive material, as specified in these documents.

NOTE Projects under consideration by TC 27/WG 17:

- IEC 62395-1, *Electrical resistance trace heating systems for industrial and commercial applications – Part 1: General and testing requirements*
- IEC/TS 62395-2, *Electrical resistance trace heating systems for industrial and commercial applications – Part 2: Recommendations for system design, installation and maintenance*