
Termočleni - 3. del: Podaljševalni in kompenzacijski kabli - Tolerance in sistemi identifikacije

Thermocouples - Part 3: Extension and compensating cables - Tolerances and identification system

Thermopaare - Teil 3: Thermoleitungen und Ausgleichsleitungen - Grenzabweichungen und Kennzeichnungssystem

Couples thermoélectriques - Partie 3: Câbles d'extension et de compensation - Tolérances et système d'identification

Ta slovenski standard je istoveten z: prEN IEC 60584-3:2020

[SIST EN IEC 60584-3:2021](#)

<http://standards.slovenski-institut.si/standards/sist/en/iec/60584-3:2020-11/9-60584-3:2021-01/1414/sist-en-iec-60584-3-2021>

ICS:

17.200.20	Instrumenti za merjenje temperature	Temperature-measuring instruments
-----------	-------------------------------------	-----------------------------------

oSIST prEN IEC 60584-3:2020

en,fr,de



65B/1164/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER:
IEC 60584-3 ED3

DATE OF CIRCULATION:
2020-01-03

CLOSING DATE FOR VOTING:
2020-03-27

SUPERSEDES DOCUMENTS:
65B/1145/CD, 65B/1162/CC

IEC SC 65B : MEASUREMENT AND CONTROL DEVICES	
SECRETARIAT: United States of America	SECRETARY: Mr Angus Low
OF INTEREST TO THE FOLLOWING COMMITTEES:	PROPOSED HORIZONTAL STANDARD: <input type="checkbox"/> Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED: <input type="checkbox"/> EMC <input type="checkbox"/> ENVIRONMENT <input checked="" type="checkbox"/> QUALITY ASSURANCE <input checked="" type="checkbox"/> SAFETY	
<input checked="" type="checkbox"/> SUBMITTED FOR CENELEC PARALLEL VOTING	<input type="checkbox"/> NOT SUBMITTED FOR CENELEC PARALLEL VOTING
<p>Attention IEC-CENELEC parallel voting</p> <p>The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.</p> <p>The CENELEC members are invited to vote through the CENELEC online voting system.</p>	

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Thermocouples - Part 3: Extension and compensating cables - Tolerances and identification system

PROPOSED STABILITY DATE: 2024

NOTE FROM TC/SC OFFICERS:

CONTENTS

2			
3			
4	1	Scope	6
5	2	Normative references	6
6	3	Definition	6
7	4	General	7
8	5	Tolerance values	7
9	6	Colour coding	7
10	6.1	Negative conductor	7
11	6.2	Positive conductor	8
12	6.3	Outer sheath	8
13	6.4	Connectors	8
14	7	Additional identification	8
15	7.1	Information applied by the manufacturer	8
16	7.2	Additional markings	9
17	8	Dimensions	9
18	9	Requirements	11
19	9.1	Materials	11
20	9.1.1	Insulating materials	11
21	9.1.2	Conductor materials	11
22	9.2	Electromagnetic shielding	11
23	9.3	Capacitance and inductance	11
24	9.4	Resistance of single conductors and loop resistance	11
25	9.5	Insulation resistance	11
26	9.6	Dielectric strength	11
27	9.7	Marking	11
28	Annex A (informative)	Examples for forms and sizes other than wires and stranded	
29	wires		13
30	A.1	Extensions and compensating conductors of forms of rod, flat wire and strip	13
31			
32	Table 1	–Tolerance classes for extension and compensating cables	7
33	Table 2	– Colour code for extension and compensating cables	8
34	Table 3	– Dimensions of conductors (Typical nominal values)	9
35	Table 4	– Constructions and cross sectional area of stranded conductors (Typical	
36	nominal values)		9
37	Table A.1	– Rods	13
38	Table A.2	– Flat wire	13
39	Table A.3	– Strip	13

40
41
42
43
44

INTERNATIONAL ELECTROTECHNICAL COMMISSION

THERMOCOUPLES –

Part 3: Extension and compensating cables – Tolerances and identification system

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of IEC on technical matters express, as nearly as possible, an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested IEC National Committees.
- 3) IEC Publications have the form of recommendations for international use and are accepted by IEC National Committees in that sense. While all reasonable efforts are made to ensure that the technical content of IEC Publications is accurate, IEC cannot be held responsible for the way in which they are used or for any misinterpretation by any end user.
- 4) In order to promote international uniformity, IEC National Committees undertake to apply IEC Publications transparently to the maximum extent possible in their national and regional publications. Any divergence between any IEC Publication and the corresponding national or regional publication shall be clearly indicated in the latter.
- 5) IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with an IEC Publication.
- 6) All users should ensure that they have the latest edition of this publication.
- 7) No liability shall attach to IEC or its directors, employees, servants or agents including individual experts and members of its technical committees and IEC National Committees for any personal injury, property damage or other damage of any nature whatsoever, whether direct or indirect, or for costs (including legal fees) and expenses arising out of the publication, use of, or reliance upon, this IEC Publication or any other IEC Publications.
- 8) Attention is drawn to the normative references cited in this publication. Use of the referenced publications is indispensable for the correct application of this publication.
- 9) Attention is drawn to the possibility that some of the elements of this IEC Publication may be the subject of patent rights. IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 60584-3 has been prepared by subcommittee 65B: Devices and process analysis, of IEC Technical Committee 65: Industrial-process measurement, control and automation.

This third edition cancels and replaces the second edition of IEC 60584-3 issued in 2007. It constitutes a technical revision.

The significant technical changes with respect to the previous edition are shown as follows;

- Revision of the 5 (Tolerance values) in order to take recent technological advancement into account,