



**SLOVENSKI STANDARD**  
**SIST EN 4049-002:2006**  
**01-julij-2006**

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Jb`&\* \$`š7 `Ě\$\$&'XY. `Gd`cýbc

Aerospace series - Thermocouple extension cable - Operating temperatures between -  
65 °C to 260 °C - Part 002: General

Luft- und Raumfahrt - Thermoelement Ausgleichsleitung - Betriebstemperaturen  
zwischen - 65 °C to 260 °C - Teil 002: Allgemeines

**iTeh STANDARD PREVIEW**

Série aérospatiale - Câbles, thermocouple - Températures de fonctionnement comprises  
entre - 65 °C et 260 °C - Partie 002 : Généralités

[SIST EN 4049-002:2006](https://standards.iteh.ai/catalog/standards/sist/64764004-1332-4a3f-baec-a0511174c407/sist-en-4049-002-2006)

Ta slovenski standard je istoveten z: **EN 4049-002:2005**

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**ICS:**

49.060

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**en**

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ICS 49.060

English Version

Aerospace series - Thermocouple extension cable - Operating  
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Série aérospatiale - Câbles, thermocouple - Températures  
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Partie 002 : Généralités

Luft- und Raumfahrt - Thermolement Ausgleichsleitung -  
Betriebstemperaturen zwischen - 65 °C to 260 °C - Teil  
002: Allgemeines

This European Standard was approved by CEN on 28 October 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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## Foreword

This European Standard (EN 4049-002:2005) has been prepared by the European Association of Aerospace Manufacturers - Standardization (AECMA-STAN).

After enquiries and votes carried out in accordance with the rules of this Association, this Standard has received the approval of the National Associations and the Official Services of the member countries of AECMA, prior to its presentation to CEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by May 2006, and conflicting national standards shall be withdrawn at the latest by May 2006.

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

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

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## 1 Scope

This standard specifies the list of product standards and common characteristics of thermocouple cables used for the connection between the thermocouple and the equipment. Temperatures between – 65 °C and 260 °C (except otherwise specified in the product standard).

## 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.

ISO 2574:1994, *Aircraft — Electrical cables — Identification marking*

ISO 8815, *Aircraft — Electrical cables and cable harnesses — Vocabulary*

EN 3475-100, *Aerospace series — Cables, electrical, aircraft use — Test methods — Part 100: General*

EN 4049-001, *Aerospace series — Thermocouple extension cable — Operating temperatures between – 65 °C to 260 °C — Part 001: Technical specification*

EN 4049-003, *Aerospace series — Thermocouple extension cable — Operating temperatures between – 65 °C to 260 °C — Part 003: Single core Nickel chromium/Nickel aluminium — Product standard*

EN 4049-004, *Aerospace series — Thermocouple extension cable — Operating temperatures between – 65 °C to 260 °C — Part 004: Two core Nickel chromium/Nickel aluminium shielded and jacketed — Product standard*

TR 6058, *Aerospace series — Cable code identification list*<sup>1)</sup>

## 3 Definitions

[SIST EN 4049-002:2006  
https://standards.iteh.ai/catalog/standards/sist/64764004-1332-4a3f-baec-a0911f74c407/sist-en-4049-002-2006](https://standards.iteh.ai/catalog/standards/sist/64764004-1332-4a3f-baec-a0911f74c407/sist-en-4049-002-2006)

See EN 3475-100 and ISO 8815.

## 4 List of product standards

EN 4049-003 *Aerospace series — Thermocouple extension cable — Operating temperatures between – 65 °C to 260 °C — Part 003: Single core Nickel chromium/Nickel aluminium — Product standard*

EN 4049-004 *Aerospace series — Thermocouple extension cable — Operating temperatures between – 65 °C to 260 °C — Part 004: Two core Nickel chromium/Nickel aluminium shielded and jacketed — Product standard*

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1) Published as AECMA Technical Report at the date of publication of this standard

## 5 Materials and construction

### 5.1 Materials

The conductors for cables shall be in accordance with the Technical Specification.

### 5.2 Construction

#### 5.2.1 Number of cores

See Table 1.

Table 1

Code	A	B
Number of conductors	1	2
Factor for overall dimensions	—	2,00
Factor for weight	—	1,03

#### 5.2.2 Colour coding of single cables

See Table 2 and Table 3.

**Table 2 — Code A**

Conductor material	Colour
Nickel chromium	White

Table 3 — Code B

Conductor material	Colour
Nickel aluminium	Green

#### 5.2.3 Colour coding of shielded and jacketed cables

See Table 4.

Table 4 — Code C

Conductor material	Colour
Nickel chromium	White
Nickel aluminium	Green

Jacket : green with white helical stripe for code 004  
green for code 006

