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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 46343.3-2025

**Aircraft - Nickel-chromium and nickel-aluminium thermocouple
extension cables - Part 3: Crimp type ring terminal ends
dimensions**

飞机 镍铬-镍铝热电偶延长电缆 第3部分：压接型环形接线端子尺寸
(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 3 of GB/T 46343 "Extension Cables for Nickel-Chromium/Nickel-Aluminum Thermocouples for Aircraft". GB/T 46343 has been published.

The following section.

---Part 1: General Requirements and Tests for Conductors;

---Part 2: General Requirements and Testing for Termination Devices;

---Part 3: Dimensions of Crimped Ring Terminals;

---Part 4: Dimensions of Crimped Fittings this document is modified to adopt ISO 8056-3:1987 "Extension cables for nickel-chromium/nickel-aluminum thermocouples for aircraft - Part 3: Crimped ring connections".

Terminal dimensions.

This document has undergone the following structural adjustments compared to ISO 8056-3:1987.

---A new chapter on "Normative References" has been added;

---A new chapter on "Terms and Definitions" has been added.

The technical differences between this document and ISO 8056-3:1987, and the reasons therefor, are as follows.

---Change the mounting hole diameter "5.0(5.3)2" to "5.3" and "6.0(6.3)2" to "6.3" (see

Table 1), because the common domestic standard is...

Metric screw specifications are used, therefore the diameter of the mounting hole for metric screws is retained.

The following editorial changes have been made to this document.

---To harmonize with existing standards, the standard name has been changed to "Aircraft Nickel-Chromium/Nickel-Aluminum Thermocouple Extension Cables Part 3: Crimped Rings" Dimensions of shaped terminals;

---ISO 8056-2 has been replaced by GB/T 46343.2 (see Chapter 1), which is cited in the informational reference.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed and is under the jurisdiction of the National Aircraft Standardization Technical Committee (SAC/TC435).

Introduction

GB/T 46343 "Extension Cables for Nickel-Chromium-Nickel-Aluminum Thermocouples in Aircraft" specifies extension cables for nickel-chromium-nickel-aluminum thermocouples suitable for aircraft.

The general requirements, tests, and dimensions for conductors and terminations are proposed to consist of four parts.

---Part 1: General requirements and tests for conductors.

---Part 2: General requirements and testing for termination components.

---Part 3: Dimensions of crimped ring terminals.

---Part 4: Dimensions of Crimped Fittings Aircraft nickel-chromium-nickel-aluminum thermocouple extension cable Part 3: Dimensions of Crimped Ring Terminals

1 Scope

This document specifies the requirements for aircraft temperature indication and recording devices and control systems, which are compatible with a rated voltage of 600V and a maximum frequency of 2000Hz.

Dimensions of the crimped ring terminal of the nickel-chromium/nickel-aluminum thermocouple extension cable.

Note: General requirements and testing requirements for this product are specified in GB/T 46343.2.

2 Normative references

This document has no normative references.

3 Terms and Definitions

This document does not contain any terms or definitions that need to be defined.

4 Dimensions, conductor specifications, and cable insulation outer diameter

The dimensions, conductor specifications, and cable insulation outer diameter shall conform to the specifications in Figure 1.