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(IEC 60512-20-2 : 2000)

(JEITA)

**Electromechanical components
for electronic equipment —
Basic testing procedures and
measuring methods — Part 20-2:
Test 20b — Flammability tests —
Fireproofness**

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee according to the proposal of establishing a Japanese Industrial Standard from Japan Electronics and Information Technology Industries Association (JEITA), with a draft of Industrial Standard based on the provision of Article 12 Clause 1 of the Industrial Standardization Law.

This Standard has been made based on **IEC 60512-20-2:2000** *Electromechanical components for electronic equipment — Basic testing procedures and measuring methods — Part 20-2: Test 20b — Flammability tests — Fireproofness* for the purposes of making it easier to compare this Standard with International Standard; to prepare Japanese Industrial Standard conforming with International Standard; and to propose a draft of an International Standard which is based on Japanese Industrial Standard.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS C 5402 series consists of the standards shown in **JIS C 5402-1-100**.

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Electromechanical components for electronic equipment — Basic testing procedures and measuring methods — Part 20-2: Test 20b — Flammability tests — Fireproofness

Introduction This Japanese Industrial Standard has been prepared based on the first edition of **IEC 60512-20-2** *Electromechanical components for electronic equipment — Basic testing procedures and measuring methods — Part 20-2: Test 20b — Flammability tests — Fireproofness* published in 2000 without modifying the technical contents.

1 Scope This section of **JIS C 5402-20** is to detail a standard method to assess the ability of a connector to withstand specified flame and vibration during a 20 min exposure by providing specified electrical performance for the first 6 min of exposure and preventing the flame from penetrating the fireproof bulkhead on which the connector is mounted throughout the test. This test may also be used for similar components when specified in a detail specification.

NOTE : The International Standard corresponding to this Standard is as follows.

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standard and **JIS** are **IDT** (identical), **MOD** (modified), and **NEQ** (not equivalent) according to **ISO/IEC Guide 21**.

IEC 60512-20-2:2000 *Electromechanical components for electronic equipment — Basic testing procedures and measuring methods — Part 20-2: Test 20b — Flammability tests — Fireproofness* (IDT)

2 Test equipment

2.1 An inspirator torch capable of producing and maintaining a flame at a constant temperature of $1\,100\text{ }^{\circ}\text{C} \pm 25\text{ }^{\circ}\text{C}$ from propane gas with a flow rate equivalent to an input of 9.67 kW to 10.84 kW is required. The primary cone diameter shall be 12.7 mm to 19 mm at the nozzle exit. The primary cone length shall be 38.1 mm to 63.5 mm from the nozzle. The secondary cone shall engulf the test specimen or provide representative impingement coverage, depending on the size of the test specimen.

2.2 A gas flowmeter with a suitable range and an accuracy of $\pm 2\%$ of full scale is required.

2.3 A thermocouple with an exposed junction as shown in figure 1 and a temperature meter capable of continuously measuring $1\,100\text{ }^{\circ}\text{C} \pm 25\text{ }^{\circ}\text{C}$, with an accuracy of $\pm 1\%$ of the reading, are required.