



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION

R 1547

PRECISION FUSE-LINKS FOR AIRCRAFT

GENERAL REQUIREMENTS

1st EDITION

May 1971

COPYRIGHT RESERVED

The copyright of ISO Recommendations and ISO Standards belongs to ISO Member Bodies. Reproduction of these documents, in any country, may be authorized therefore only by the national standards organization of that country, being a member of ISO.

For each individual country the only valid standard is the national standard of that country.

Printed in Switzerland

Also issued in French and Russian. Copies to be obtained through the national standards organizations.

BRIEF HISTORY

The ISO Recommendation R 1547, *Precision fuse-links for aircraft – General requirements*, was drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, the Secretariat of which is held by the British Standards Institution (BSI).

Work on this question led to the adoption of Draft ISO Recommendation No. 1547, which was circulated to all the ISO Member Bodies for enquiry in June 1968. It was approved, subject to a few modifications of an editorial nature, by the following Member Bodies :

Australia	Italy	Switzerland
Belgium	New Zealand	Thailand
Canada	Peru	Turkey
Czechoslovakia	Poland	U.A.R.
Greece	South Africa, Rep. of	United Kingdom
Israel	Spain	

The following Member Bodies opposed the approval of the Draft :

Germany
Netherlands
U.S.S.R.

This Draft ISO Recommendation was then submitted by correspondence to the ISO Council, which decided to accept it as an ISO RECOMMENDATION.

PRECISION FUSE-LINKS FOR AIRCRAFT

GENERAL REQUIREMENTS

1. SCOPE

This ISO Recommendation gives the general requirements for precision fuse-links suitable for use in aircraft electrical systems having voltage and frequency characteristics conforming to ISO Recommendation R 222*, *Voltages for aircraft electrical systems*, at any ambient temperature from -65°C to $+85^{\circ}\text{C}$, and all altitudes from 0 to 24 400 m. Where mention is made of other "relevant ISO Recommendations" this refers to :

- (1) ISO Recommendation R 1548, *Precision fuse-links for aircraft (Type A)*;
- (2) ISO Recommendation R 1549, *Precision fuse-links for aircraft (Type B)*.

2. TERMINOLOGY

The terminology used in this ISO Recommendation is in conformity with the International Electrotechnical Commission (IEC) Publication 269, *Low-voltage fuses with high breaking capacity for industrial and similar purposes – Part 1 : General requirements*, as far as practicable.

3. DIMENSIONS

The dimensions of the fuse-links should comply with the relevant ISO Recommendation.

4. TEMPERATURE AND ALTITUDE RATING

- 4.1 The fuse-links should be suitable for use in all ambient temperatures from -65°C to $+35^{\circ}\text{C}$ and at all altitudes up to 24 400 m.
- 4.2 For ambient temperatures between 35°C and 85°C the fuse-link should be de-rated by 0.4 % of normal rated current for every one degree Celsius increase in ambient temperature above 35°C .

5. CURRENT, VOLTAGE AND BREAKING CAPACITY RATINGS

The current ratings, the voltage ratings, and breaking capacity ratings of the fuse-links should be in accordance with the relevant ISO Recommendation.

* See also ISO Recommendation R 1540, *Characteristics of aircraft electrical systems* (in course of preparation).