

Connectors for ground electrical supplies for aircraft —

Part 2: Specification for dimensions

[ISO title: Aircraft — Connectors for ground electrical supplies
Part 2: Dimensions]

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Aerospace Standards Committee (ACE/-) to Technical Committee ACE/6, upon which the following bodies were represented:

- BEAMA Ltd.
- British Rubber Manufacturers' Association
- Civil Aviation Authority
- Electric Cable Makers' Confederation
- Electronic Components Industry Federation
- Electronic Engineering Association
- Ministry of Defence
- National Supervising Inspectorate
- Society of British Aerospace Companies Limited

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National foreword

This British Standard has been prepared under the direction of the Aerospace Standards Committee and is identical with ISO 461-2:1985 “*Aircraft — Connectors for ground electrical supplies — Part 2: Dimensions*” published by the International Organization for Standardization (ISO).

Together with BS 4G 173-1 it supersedes BS 3G 173:1972 which is withdrawn, and takes account of international agreement by Technical Committee ISO/TC 20 in relation to the requirements of connectors for ground electrical supplies for aircraft.

Terminology and conventions. The text of the International Standard has been approved as suitable for publication as a British Standard without deviation. Some terminology and certain conventions are not identical with those used in British Standards; attention is drawn especially to the following.

The comma has been used as a decimal marker for metric dimensions. In British Standards it is current practice to use a full point on the baseline as the decimal marker.

Whenever the words “part of ISO 461” appear, referring to this standard, they should be read as “Part of BS 4G 173”.

Cross-reference

International Standard	Corresponding British Standard
ISO 461-1:1985	BS 4G 173 <i>Connectors for ground electrical supplies for aircraft</i> Part 1:1985 <i>Specification for design, performance and test requirements</i> (Identical)

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope and field of application

This part of ISO 461 specifies the dimensions for the following connectors used to supply electrical power from a ground source to an aircraft:

Style 1A — 28 V d.c., aircraft fixed connector

Style 1B — 28 V d.c., ground supply free connector

Style 2A — 112 V d.c., aircraft fixed connector

Style 2B — 112 V d.c., ground supply free connector

Style 3A — 200 V a.c., 400 Hz, 3-phase aircraft fixed connector

Style 3B — 200 V a.c., 400 Hz, 3-phase ground supply free connector

NOTE ISO 461-1 specifies the design, performance and test requirements for the connectors.

2 Reference

ISO 461-1, *Aircraft — Connectors for ground electrical supplies — Part 1: Design, performance and test requirements*.

3 Definitions

For the purposes of this part of ISO 461, the definitions given in ISO 461-1 apply.

4 Dimensions

The aircraft fixed connector and ground supply free connector shall comply with the dimensions and tolerances shown in Figure 1 to Figure 6, as appropriate.