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# INTERNATIONAL STANDARD



# 46

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INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

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## Aircraft — Fuel nozzle grounding plugs and sockets

First edition — 1973-06-01

<https://standards.iteh.ai/catalog/standards/sist/bc8ac35b-e69c-40cb-82c6-15be18e4e221/iso-46-1973>

ISO 46:1973

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UDC 629.7.082.6 : 621.316.99

Ref. No. ISO 46-1973 (E)

**Descriptors** : aircraft, aircraft equipment, refuelling, hose nozzles, electrical grounding, connector plugs.

Price based on 1 page

## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up has the right to be represented on that Committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

Prior to 1972, the results of the work of the Technical Committees were published as ISO Recommendations; these documents are now in the process of being transformed into International Standards. As part of this process, International Standard ISO 46 replaces ISO Recommendation R 46-1970 drawn up by Technical Committee ISO/TC 20, *Aircraft and space vehicles*.

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The Member Bodies of the following countries approved the Recommendation :

Australia	Israel	Thailand
Belgium	Italy	Turkey
Canada	Netherlands	United Kingdom
Czechoslovakia	New Zealand	U.S.S.R.
Egypt, Arab Rep. of	Portugal	Yugoslavia
France	Spain	
Germany	Switzerland	

No Member Body expressed disapproval of the Recommendation.

## Aircraft – Fuel nozzle grounding plugs and sockets

### 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of grounding plugs to be attached by cable to the nozzles of aircraft refuelling tankers. Details are also given of the sockets to be provided in the aircraft for the accommodation of the plugs and the minimum length, minimum diameter and material of the grounding cable.

### 2 PLUGS

The dimensions of aircraft fuel nozzle grounding plugs, attached by cable to the nozzles of refuelling tankers, shall be as shown below.

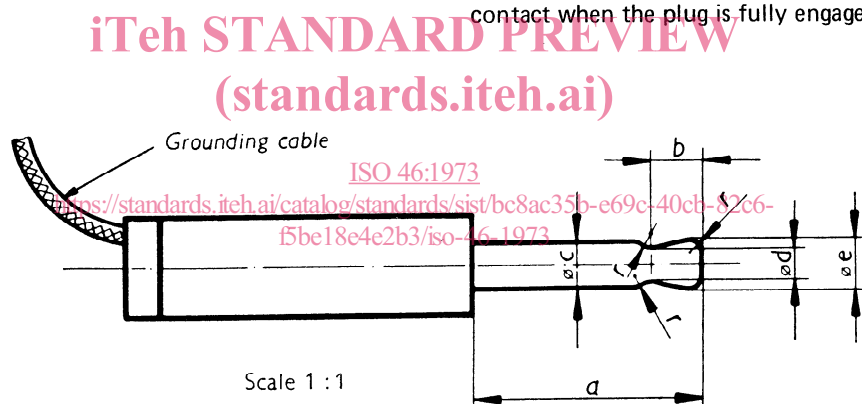
### 3 SOCKETS

Grounding sockets provided on aircraft shall be suitable to accommodate plugs of the dimensions shown below.

The bore of the socket shall have a diameter of

$$6,38 \begin{matrix} + 0,05 \\ 0 \end{matrix} \text{ mm} \quad (0,251 \begin{matrix} + 0,002 \\ 0 \end{matrix} \text{ in})$$

It shall incorporate a device to ensure a good electrical contact when the plug is fully engaged in the socket.



Minimum length of cable : 1,4 m (4.5 ft)  
 Maximum diameter of cable : 1,6 mm (0.062 in)  
 Material of cable : steel – zinc or tin coated

Dimensions	mm	in
<i>a</i>	30,2	1.1875
<i>b</i>	6,4	0.25
<i>c</i>	6,3 ± 0,05	0.248 ± 0.002
<i>d</i>	4,75 ± 0,13	0.187 ± 0.005
<i>e</i>	6,15 ± 0,076	0.242 ± 0.003
<i>r</i>	1,6	0.0625

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