

Radio-frequency connectors - Part 2: Coaxial unmatched connector

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Key words: Connectors - radio-frequency - coaxial - T.V. aerial - dimensions - type tests

**RADIO-FREQUENCY CONNECTORS  
PART 2: COAXIAL UNMATCHED CONNECTOR**

**Connecteurs pour fréquences  
radioélectriques. Deuxième partie:  
Connecteur coaxial non adapté**

**Radiofrequenz-Steckverbinder  
Teil 2: Unangepasste koaxiale  
Steckverbinder für Fernsehantennen-  
leitungen**

BODY OF HD

The Harmonization Document consists of:

- IEC 169-2 (1965) edition 1 with Amendment No.1 (1982); IEC/SC 46D, not appended

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This Harmonization Document was approved by CENELEC on 1 March 1984

The English and French versions of this HD are provided by the text of the IEC publication and the German version is the official translation of the IEC text.

According to the CENELEC Internal Regulations the CENELEC member National Committees are bound:

to announce the existence of this Harmonization Document at national level

by or before 1984-09-01

to publish their new harmonized national standard

by or before 1985-09-01

to withdraw all conflicting national standards

by or before 1985-09-01.

Harmonized national standards are listed on the HD information sheet, which is available from the CENELEC National Committees or from the CENELEC General Secretariat.

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NORME  
INTERNATIONALE  
INTERNATIONAL  
STANDARD

CEI  
IEC  
169-2

Première édition  
First edition  
1965

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**Connecteurs pour fréquences radioélectriques**

**Deuxième partie:**  
Connecteur coaxial non adapté

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Radio-frequency connectors  
(standards.iteh.ai)

**Part 2:**  
Coaxial unmatched connector

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Международная Электротехническая Комиссия

CODE PRIX  
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H

Pour prix, voir catalogue en vigueur  
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CORRIGENDUM

*Remplacer la seconde ligne du titre :*

Deuxième partie: Connecteur coaxial non adapté de descentes d'antennes de télévision

*par la suivante :*

**Deuxième partie: Connecteur coaxial non adapté.**

*Replace the second line of the title :*

Part 2: Coaxial unmatched television aerial feeder connector

*as follows :*

**Part 2: Coaxial unmatched connector.**

Octobre 1975

October 1975

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RADIO-FREQUENCY CONNECTORS**

**Part 2: Coaxial unmatched connector**

FOREWORD

- 1) The formal decisions or agreements of the IEC on technical matters, prepared by Technical Committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 2) They have the form of recommendations for international use and they are accepted by the National Committees in that sense.
- 3) In order to promote this international unification, the IEC expresses the wish that all National Committees having as yet no national rules, when preparing such rules, should use the IEC recommendations as the fundamental basis for these rules in so far as national conditions will permit.
- 4) The desirability is recognized of extending international agreement on these matters through an endeavour to harmonize national standardization rules with these recommendations in so far as national conditions will permit. The National Committees pledge their influence towards that end.
- 5) The IEC has not laid down any procedure concerning marking as an indication of approval and has no responsibility when an item of equipment is declared to comply with one of its recommendations.

**iTeh STANDARD PREVIEW**  
**PREFACE**  
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This Recommendation was prepared by Sub-Committee 40-2, R.F. Transmission Lines and their Accessories (now Sub-Committee 46A, R.F. Cables and their Accessories). It forms Part 2 of the complete Recommendation for r.f. connectors.

Part 1, General Requirements and Measuring Methods, with which this publication must be used, is issued as IEC Publication 169-1. The complete Recommendation will include other parts laying down detailed specifications for other types of connectors. These additional parts will be issued from time-to-time as they become ready.

The first draft of Part 2 was discussed at the meeting held in Ulm in 1959, and as a result a proposal was submitted to the National Committees for approval under the Six Months' Rule in August 1960.

Although one unfavourable vote has been received, it was decided during the meeting in Interlaken (1961) to publish this document as a specification sheet of IEC Publication 169.

The following countries voted explicitly in favour of publication of Part 2:

Belgium	Portugal
Czechoslovakia	Romania
Denmark	Sweden
Finland	Switzerland
Germany	Turkey
Hungary	United Kingdom
Japan	United States of America
Norway	Yugoslavia

# RADIO-FREQUENCY CONNECTORS

## Part 2 : Coaxial unmatched connector

### 1. Dimensions

#### 1.1 Connector

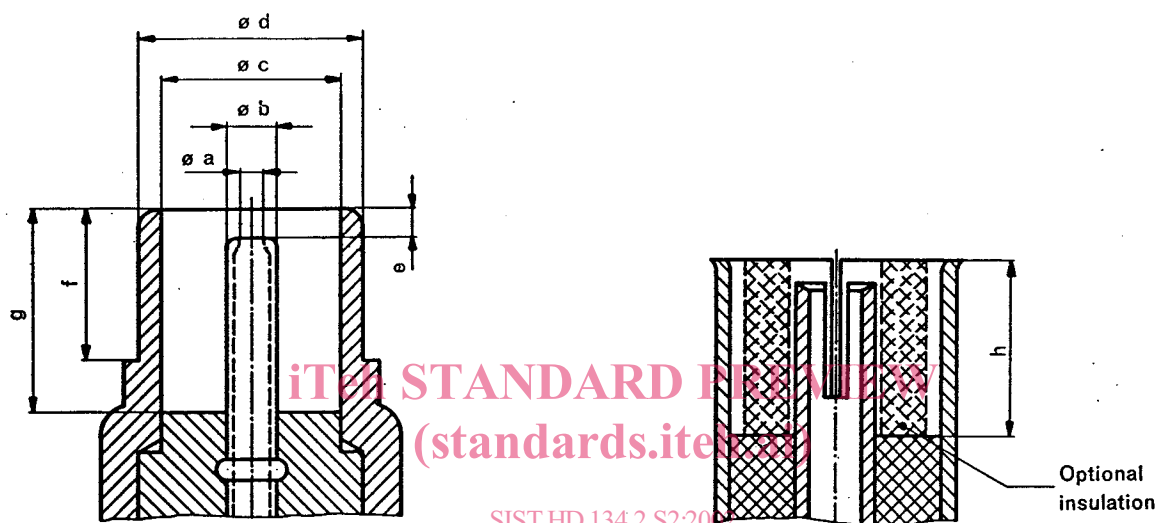


FIGURE 1

FIGURE 2

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The millimetre dimensions are derived from the original inch dimensions.

	a	b	c	d	e	f	g	h
mm	1.3 min	2.36 $\pm 0.076$	8.05 min	9.525 $\pm 0.05$	0.8 $\pm 0.4$	7.11 min	9.1 min	7.54 min
in	0.051 min	0.093 $\pm 0.003$	0.317 min	0.375 $\pm 0.002$	1/32 $\pm 1/64$	0.280 min	23/64 min	19/64 min



1.2 Gauges

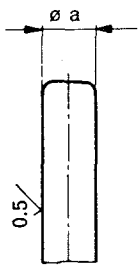


FIGURE 3

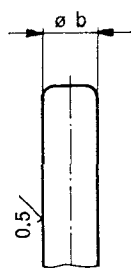


FIGURE 4

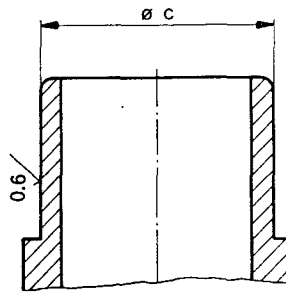


FIGURE 5

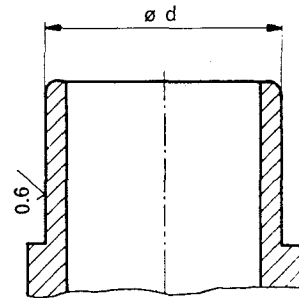


FIGURE 6

Note. —  $\sqrt{0.5}$  denotes a maximum surface roughness of  $R_a = 0.5 \mu\text{m}$  ( $20 \mu\text{in}$ ).

The millimetre dimensions are derived from the original inch dimensions.

	a	b	c	d
mm	2.438 0 -0.01	2.286 +0.01 0	9.575 0 -0.01	9.474 +0.01 0
in	0.0960 0 -0.0004	0.0900 +0.0004 0	-0.3770 0 0.0004	0.3730 +0.0004 0

Gauge for	Figure	Material
Sizing purposes	3 and 5	Steel (hardened)
Measurement of contact resistance	4 and 6	Under consideration
Measurement of gauge retention force	4 and 6	Steel (hardened) Weight : gauge Fig. 4 : Under consideration gauge Fig. 6 : Under consideration