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Radio-frequency connectors - Part 3: Two-pin connector for twin balanced aerial feeders

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Part 3: Two-pin connector for twin balanced aerial feeders

Connecteurs pour fréquences radioélectriques
Troisième partie: Connecteur à deux broches pour descente d'antenne en paire équilibrée

Hochfrequenz-Steckverbindungen
Teil 3: Zweistift-Steckverbinder für symmetrische Antennenzuleitungen

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- Title Page

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CH : SEV/ASE 3087-3.1968

DE : NOS

DK : NOS

ES : NOS

FI : NOS

FR : NOS

GB : NOS

GR : NOS

IE : NOS

IT : CEI-UNEL 84602-71 (1971)

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For price, see current catalogue

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

RADIO-FREQUENCY CONNECTORS

Part 3: Two pin connector for twin balanced aerial feeders

FOREWORD

1) The formal decisions or agreements of the I E C 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 I E C expresses the wish that all National Committees having as yet no national rules, when preparing such rules, should use the I E C 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 I E C 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.

PREFACE

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 3 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 I E C Publication 169–1. The specific Recommendation on Coaxial Unmatched Television Aerial Feeder Connector, is issued as I E C Publication 169–2.

The first draft of Part 3 was discussed at the meeting held in Ulm in 1959. As a result of this latter meeting, a proposal was submitted to the National Committees under the Six Months' Rule in August 1960.

Having received one unfavourable vote, a new proposal was discussed at meetings held in Interlaken in 1961 and in Bucharest in 1962. As a result of this latter meeting, this new proposal was submitted to the National Committees under the Six Months' Rule in December 1962.

The following countries voted explicitly in favour of publication of Part 3:

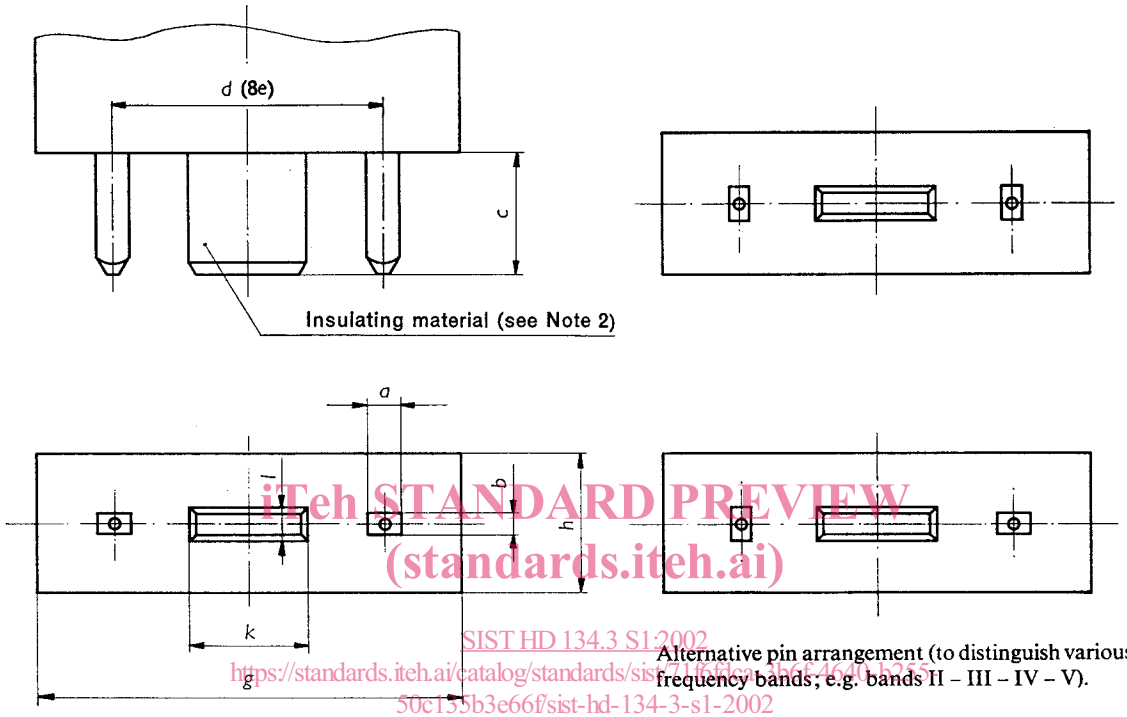
Belgium	Romania
Czechoslovakia	Sweden
Denmark	Switzerland
Germany	Turkey
Japan	United Kingdom
Netherlands	United States of America
Norway	Yugoslavia

RADIO-FREQUENCY CONNECTORS

Part 3: Two pin connector for twin balanced aerial feeders

1. Dimensions

1.1 *Pin connector*



	mm	in
a	2.50 ± 0.05	0.0984 ± 0.0020
b	1.60 ± 0.05	0.0630 ± 0.0020
c	9.0 ± 0.5	0.354 ± 0.020
d	20.32 ± 0.1	0.8000 ± 0.0039
e	See Note 1	See Note 1
g	32.0 max.	1.26 max.
h	10.50 max.	0.413 max.
k	9.0 max.	0.35 max.
l	2.50 max.	0.098 max.

Notes 1. — e denotes the basic printed wiring grid of 2.54 mm (0.1 in) according to IEC Publication 97, Recommendations for Fundamental Parameters for Printed Wiring Techniques.

2. — The insulated centre-piece prevents insertion in mains socket-outlets.

1.2 *Socket connector*

Socket-connectors are not shown pictorially. Such connectors shall be designed to engage the pin connectors and to meet all the requirements defined in this Recommendation.

1.2 *Gauges*

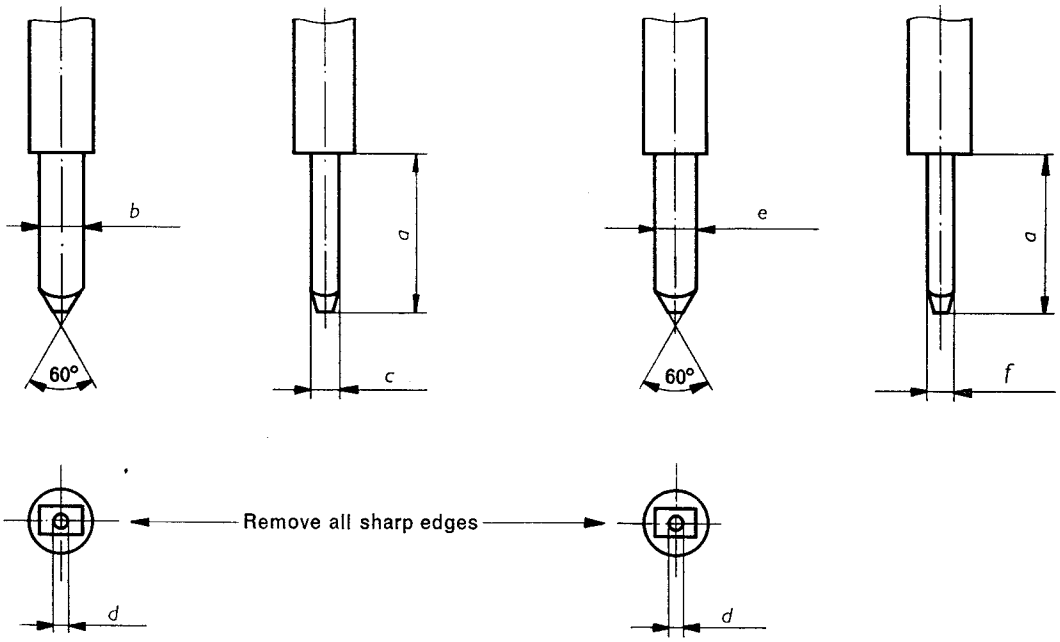


FIGURE 1

FIGURE 2

	mm	in
a	9.0 ± 0.5	0.354 ± 0.020
b	$2.55^{\ 0}_{-0.01}$	$0.100\,39^{\ 0}_{-0.000\,39}$
c	$1.65^{\ 0}_{-0.01}$	$0.064\,96^{\ 0}_{-0.000\,39}$
d	0.9	0.035
e	$2.45^{\ +0.01}_{\ 0}$	$0.096\,45^{\ +0.000\,39}_{\ 0}$
f	$1.55^{\ +0.01}_{\ 0}$	$0.061\,02^{\ +0.000\,39}_{\ 0}$

Gauge for	Figure	Material
Sizing purposes Measurement of contact resistance Measurement of gauge retention force	1 2 2	Steel Beryllium copper, silvered and rhodium plated Steel, polished, surface roughness Ra = 0.15 to 0.25 μm (6 to 10 μin) Weight: 0.12 kg

2. **Climatic group**

25/070/04
Rated temperature range: —25 °C to 70 °C.
Damp heat, long term: 4 days.

3. **Schedule for type test**

This schedule shows all tests and the order in which they shall be carried out as well as the requirements to be met.