

**Harmonized system of quality
assessment for electronic components**

Sectional specification: Radio frequency coaxial connectors — Series SMB

The European Standard EN 122130:1994 has the status of a
British Standard

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This British Standard, having been prepared under the direction of the Electronic Components Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 15 June 1994

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The following BSI references relate to the work on this standard:
Committee reference ECL/6
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Amendments issued since publication

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Contents

	Page
Cooperating organizations	Inside front cover
National foreword	ii
Foreword	2
Text of EN 122130	5
National annex NA (informative) Committees responsible	Inside back cover
National annex NB (informative) Cross-references	Inside back cover

National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Policy Committee and is the English language version of EN 122130:1993 *Sectional specification: Radio frequency coaxial connectors. Series SMB*, published by the Electronic Components Committees (CECC) of the European Committee for Electrotechnical Standardization (CENELEC). It was derived by CECC from IEC 169-10, published by the International Electrotechnical Commission (IEC).

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, the EN title page, pages 2 to 24, 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.

Descriptors: Quality, electronic components, connectors

English version

Sectional specification: Radio frequency coaxial connectors — Series SMB

Spécification intermédiaire: Connecteurs coaxiaux pour fréquence radioélectrique — Série SMB

Rahmenspezifikation: Hochfrequenz-Koaxial- Steckverbinder — Serie SMB

This European Standard was approved by CENELEC Electronic Components Committee (CECC) on 7 May 1993. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CECC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Foreword

The CENELEC Electronic Components Committee (CECC) is composed of those member countries of the European Committee for Electrotechnical Standardization (CENELEC) who wish to take part in a harmonized System for electronic components of assessed quality.

The object of the System is to facilitate international trade by the harmonization of the specifications and quality assessment procedures for electronic components, and by the grant of an internationally recognized Mark, or Certificate, of Conformity. The components produced under the System are thereby acceptable in all member countries without further testing.

This European Standard was prepared by CECC WG 22, “RF Connectors”.

The text of the draft based on document CECC 22130 Issue 1:1994 (with A1 to A3) was submitted to the formal vote for conversion to a European Standard; together with the voting report, circulated as document CECC(Secretariat)3339, it was approved by CECC as EN 122130 on 7 May 1993.

The following dates were fixed:

- latest date of announcement of the EN at national level (doa) 1993-09-03
- latest date of publication of an identical national standard^a (dop) 1994-03-03
- latest date of withdrawal of conflicting national standards^a (dow) 1995-03-03

^a National Standard (excluding National implementation of IECQ Specifications).

This specification has been formally approved by the CECC and has been prepared for those countries taking part in the System who wish to issue national harmonized specifications for RADIO FREQUENCY COAXIAL CONNECTORS AND ACCESSORIES SERIES SMB. It should be read in conjunction with the current regulations for the CECC System.

Preface

This sectional specification (SS) was prepared by CECC Working Group 22: R.F. Connectors.

It is based, wherever possible, on the Publications of the International Electrotechnical Commission and in particular on IEC 169-10 Radio-frequency connectors, Part 10: R.F. coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with snap-on coupling — Characteristic impedance 50 Ω (Type SMB). Technical deviations from IEC 169-10 are indicated by vertical lines.

This SS and its associated blank detail specification(s) (BDS) are specific to Series SMB radio frequency connectors and their related accessories.

The text of this specification was circulated to the CECC for voting in the documents listed below and was ratified by the President of the CECC for printing as a CECC specification:

Document	Voting date	Report on the Voting
CECC (Secretariat) 927	July 1980	CECC (Secretariat) 1008
CECC (Secretariat) 1231	December 1982	CECC (Secretariat) 1318

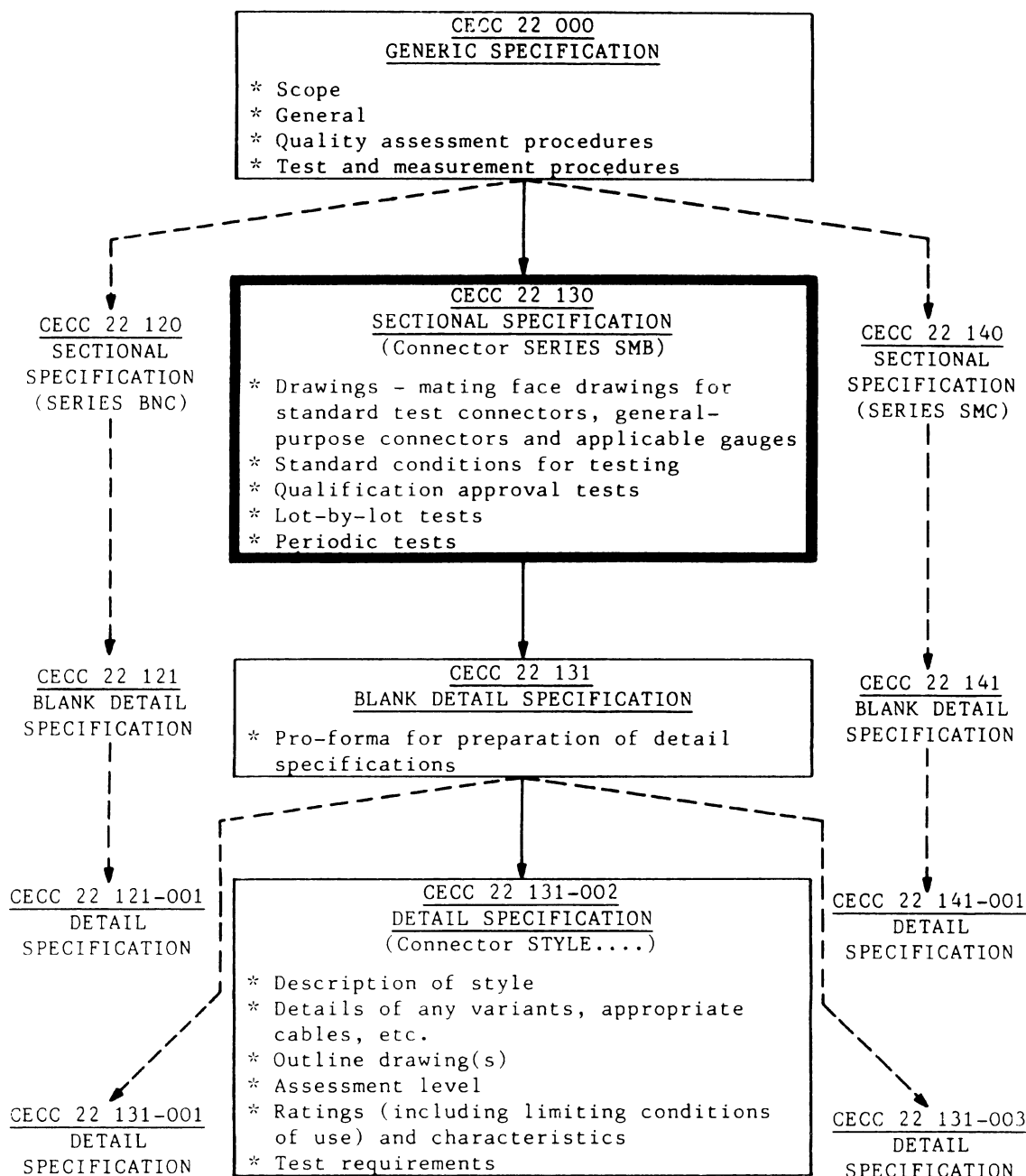
Series SMB connectors have a characteristic impedance of 50 Ω and are normally used for low power applications, in conjunction with flexible coaxial cables having a dielectric diameter of 0,86 to 1,6 mm. The connectors are usable up to a frequency of at least 4 GHz, and may be used at higher frequencies if a reflection factor greater than 0,15 can be tolerated for straight connectors and 0,24 for right-angle styles.

Contents

	Page
Foreword	2
Section 1. Scope	
Section 2. Mating face and gauge information	
2.1 Dimensions — General purpose connectors	6
2.2 Gauges for general purpose connectors	7
2.3 Dimensions — Standard test connectors (Grade 0)	10
Section 3. Properties	
3.1 Ratings and characteristics	11
Section 4. Test conditions and severities	
4.1 Measurement and recovery conditions	14
4.2 Visual examination	14
4.3 Dimensions	14
4.4 Electrical tests and measurements	14
4.5 Mechanical tests and measurements	15
4.6 Environmental tests and measurements	17
4.7 Endurance tests	21
4.8 Resistance to solvents and contaminating fluids	21
Section 5. Quality assessment procedures	
5.1 Test schedules and inspection requirements	22
Figure 3 — Gauge pin for centre contact of socket connector	7
Figure 4 — Outer contact sizing and retention force gauges A and B	8
Table	7
Table	8

Document numbering for r.f. connector specifications follows clause 2.2 1) of CECC 00400-III, in order to permit the issue of more than nine sectional specifications: The approved numbering system applicable to r.f. connector specifications is illustrated in the diagram below.

**CECC SPECIFICATION SYSTEM
for R.F. Connectors**



NOTE A detail specification is a "completed" blank detail specification.

Section 1. Scope

This sectional specification (SS) provides information and rules for the preparation of detail specifications (DS) for miniature snap-on coaxial connectors Series SMB.

It prescribes mating-face dimensions for general purpose connectors, dimensional details for standard test connectors, Grade 0, together with gauging information and the mandatory tests, selected from CECC 22000, applicable to all DS relating to Series SMB connectors.

This specification indicates the recommended performance characteristics to be considered when writing a DS, and covers test schedules and inspection requirements for Assessment Levels H, M and U.