

Harmonized system of quality assessment for electronic components: Sectional specification: Radio frequency coaxial connectors, series SMA

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Cooperating organizations

The Electronic Components Standards Committee, under whose direction this British Standard was prepared, consists of representatives from the following:

- British Electrical and Allied Manufacturers' Association (BEAMA)
- Department of Industry, Information Technology Division
- Electronic Components Industry Federation*
- Electronic Engineering Association*
- Institution of Electronic and Radio Engineers
- Ministry of Defence*
- National Supervising Inspectorate*
- British Telecom*
- Society of British Aerospace Companies Limited*
- Telecommunication Engineering and Manufacturing Association (TEMA)

The organizations marked with an asterisk in the above list, together with the following, were directly represented on the Technical Committee entrusted with the preparation of this British Standard:

- Association of Manufacturers Allied to the Electrical and Electronic Industry (BEAMA)
- British Non-ferrous Metals Federation
- British Plastics Federation
- Crown Agents for Oversea Governments and Administrations
- Electric Cable Makers' Confederation
- United Kingdom Atomic Energy Authority

This British Standard, having been prepared under the direction of the Electronic Components Standards Committee, was published under the authority of the Board of BSI and comes into effect on 31 January 1983

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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

Amd. No.	Date of issue	Comments

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National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Committee. It is identical with CENELEC Electronic Components Committee (CECC) 22110:1982 “*Harmonized system of quality assessment for electronic components: Sectional specification: Radio frequency coaxial connectors, Series SMA*”.

This standard is a harmonized specification within the CECC system and will eventually replace section 2 of BS 9210:1971 “*Radio frequency connectors of assessed quality: generic data and methods of test*” but for a period both standards will remain in force because of current approvals to BS 9210.

Terminology and conventions. The text of the CECC specification 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 especially drawn to the following.

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

Cross-references. The British Standard harmonized with CECC 00100 is BS 9000 “*General requirements for a system for electronic components of assessed quality*” Part 1 “*Specification of basic rules and rules of procedure*”.

International Standard	Corresponding British Standard
CECC 22000:1979	BS CECC 22000:1980 <i>Specification for harmonized system of quality assessment for electronic components: Generic specification: Radio frequency coaxial connectors</i> (Identical)
IEC 68	BS 2011 <i>Basic environmental testing procedures</i>
IEC 68-2-1:1974	Part 2.1A:1977 <i>Test A. Cold</i> (Identical)
IEC 68-2-4:1980	Part 2.1Da:1977 <i>Test Da. Accelerated damp heat</i> (Identical)
IEC 68-2-6:1982	Part 2.1Fc:1983 <i>Test Fc. Vibration (sinusoidal)</i> (Identical)
IEC 68-2-13:1966	Part 2.1M:1977 <i>Test M. Low air pressure</i> (Identical)

There is no corresponding British Standard for CECC 00400. The Technical Committee has reviewed the provisions of CECC 00400:1977 to which reference is made in the text and decided that they are acceptable for use in conjunction with this standard.

A related British Standard to IEC 169-15:1979, referred to in the text for information only, is BS 9210 N0006: “*Detail specification for radio frequency connectors of assessed quality*” Part 1:1978 “*R.F. coaxial connectors series SMA, unsealed, soldered, 50 Ω full assessment level*”.

Additional information. The draft cable specification “IEC-96-50-1-A” referred to in 3.1 has been published as specification sheet reference 96 IEC 50-1-1/2/3. General information on other cables equivalent to those listed may be found in Appendix P of BS 9210.

2.2.1, 2.3.1 and 2.3.2 specify surface roughness finishes. In each case the specified value should be taken as the acceptance level for the arithmetic mean deviation (Ra) as given in BS 1134-1.

Specification system. The British Standard system will follow the same structure as that shown on page iv of this specification.

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.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the CECC title page, pages ii to iv, pages 1 to 20, 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.

English version

Harmonized System of Quality Assessment for
Electronic Components

SECTIONAL SPECIFICATION:

**RADIO FREQUENCY
COAXIAL CONNECTORS
Series SMA**

Système Harmonisé d'Assurance de la Qualité
des Composants Electroniques

SPECIFICATION INTERMEDIAIRE:

**CONNECTEURS COAXIAUX
POUR FREQUENCE
RADIOELECTRIQUE
Série SMA**

Harmonisiertes Gütebestätigungssystem für
Bauelemente der Elektronik

RAHMENSPEZIFIKATION:

**HOCHFREQUENZ-
KOAXIAL-STECKVERBINDER
Serie SMA**

**1**

Edition
Issue
Ausgabe

CECC 22110

1982

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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 accepted by all member countries without further testing.

This document has been formally approved by the CECC, and has been prepared for those member countries taking part in the System who wish to issue national harmonized specifications for RADIO FREQUENCY COAXIAL CONNECTORS AND ACCESSORIES. It should be read in conjunction with document CECC 00100: Basic Rules (1974).

Preface

This sectional specification was prepared by CECC Working Group 22: RF Connectors.

In accordance with the requirements of document CECC 00100, it is based, wherever possible, on the Recommendations of the International Electrotechnical Commission and in particular on IEC 169-15:1979: Radio frequency connectors, Part 15: R.F. coaxial connectors with inner diameter of outer conductor 4,13 mm (0,163 in) with screw coupling — Characteristic impedance 50 ohms (Type SMA).

This sectional specification and its associated blank detail specification(s) are specific to Series SMA radio frequency connectors and their related accessories. The connectors covered by it are intermateable with connectors according to:

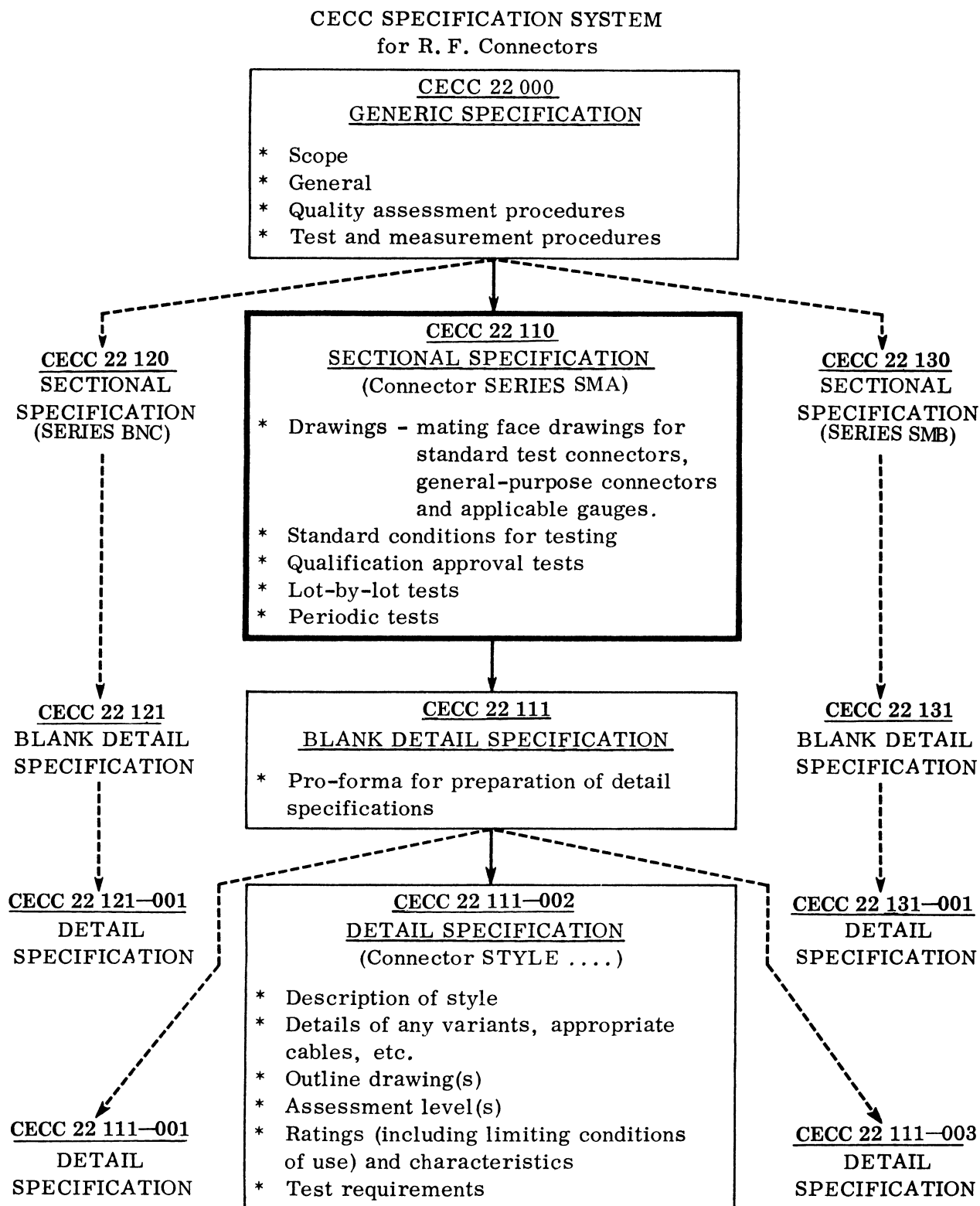
France:	NF C 93563 series KMR
Germany:	
Italy:	
Netherlands:	
Switzerland:	IEC 169-15
U.K.:	BS 9210 N0006, series SMA
U.S.A.:	Military specification MIL-C-39012, series SMA

The mating face and gauging information are taken from IEC 169-15.

Document numbering for R.F. connector specifications differs from that prescribed by Section 3 of CECC 00400, in order to permit the issue of more than nine sectional specifications. The approved numbering system applicable to R.F. connector specifications is illustrated by the diagram on page iv.

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

Document	Voting Date	Report on the Voting
CECC(Secretariat)867	February 1980	CECC(Secretariat)963
CECC(Secretariat)1005	January 1981	CECC(Secretariat)1058



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