

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

Sectional specification:

**Radio frequency coaxial
connectors
Series SMC**

The European Standard EN 122140 : 1993 has the status of a
British Standard

Cooperating organizations

The European Committee for Electrotechnical Standardization (CENELEC), under whose supervision this European Standard was prepared, comprises the national committees of the following countries:

Austria	Italy
Belgium	Luxembourg
Denmark	Netherlands
Finland	Norway
France	Portugal
Germany	Spain
Greece	Sweden
Iceland	Switzerland
Ireland	United Kingdom

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 September 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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National foreword

This British Standard has been prepared under the direction of the Electronic Components Standards Policy Committee. It is identical with EN 122140 : 1993 *Sectional specification: Radio frequency coaxial connectors. Series SMC*, published by the Electronic Components Committee (CECC) of the European Committee for Electrotechnical Standardization (CENELEC).

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

English version

Sectional specification:
Radio frequency coaxial connectors.
Series SMC

Spécification intermédiaire: Connecteurs
coaxiaux pour fréquence radioélectrique.
Serie SMC

Rahmenspezifikation:
Hochfrequenz-Koaxial-Steckverbinder.
Serie SMC

This European Standard was approved by the 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 General Secretariat of the CECC 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 CECC General 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. The membership of the CECC is identical, with the exception of the national electrotechnical committees of Greece, Iceland and Luxembourg.

CECC

CENELEC Electronic Components Committee
Comité des Composants Electroniques du CENELEC
CENELEC-Komitee für Bauelemente der Elektronik

General Secretariat: Gartenstr. 179, W-6000 Frankfurt/Main 70

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 22140 Issue 1 : 1984 (with A1 and A2) was submitted to the formal vote for conversion to a European Standard; together with the voting report, circulated as document CECC(Secretariat)3340 it was approved by CECC as EN 122140 on 7 May 1993.

The following dates were fixed:

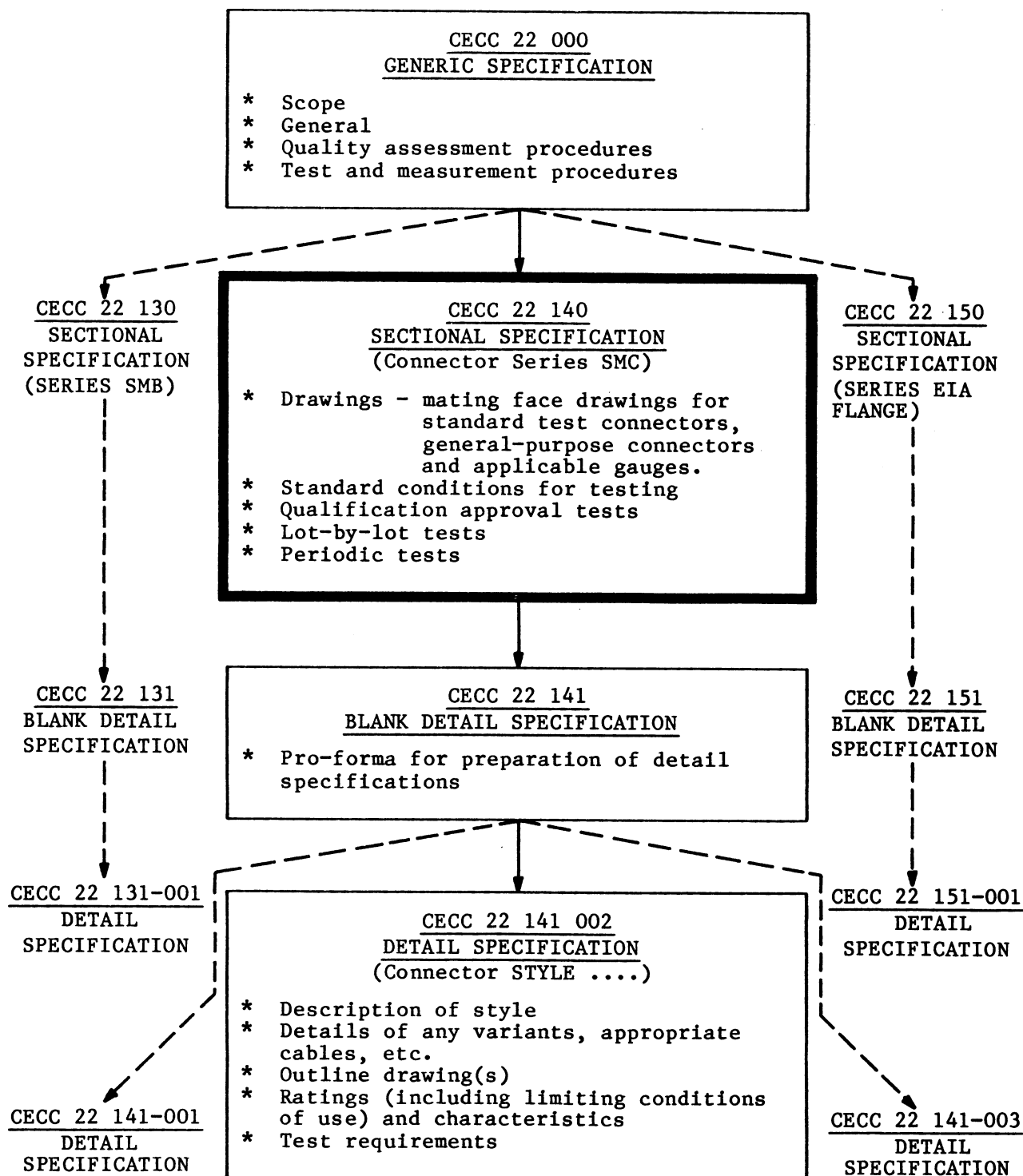
- latest date of announcement of the EN at national level (doa) 1993-09-03
- latest date of publication of an identical national standard* (dop) 1994-03-03
- latest date of withdrawal of conflicting national standards* (dow) 1995-03-03

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* National standard (excluding national implementation of IECQ specifications)

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 screw-coupled coaxial connectors Series SMC.

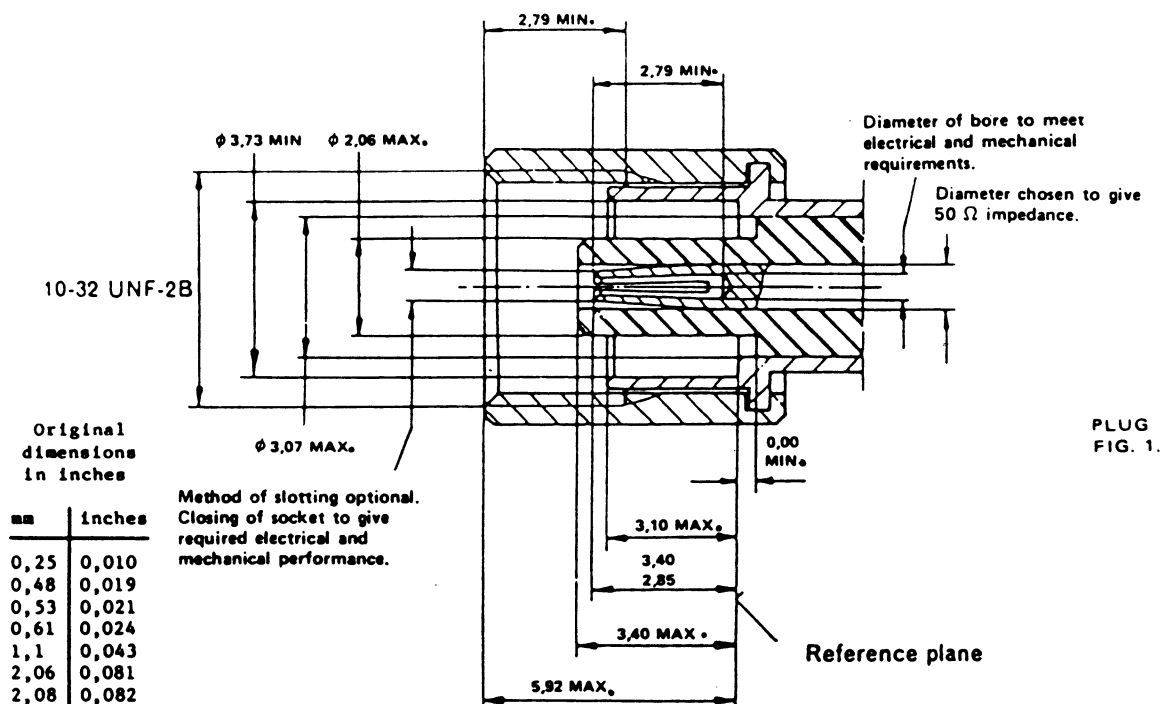
It prescribes mating-face dimensions for general purpose connectors, dimensional details for standard test connectors, Grade 0, together with gauging information and the mandatory tests, selected from CECC 22 000, applicable to all DS relating to Series SMC connectors.

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.

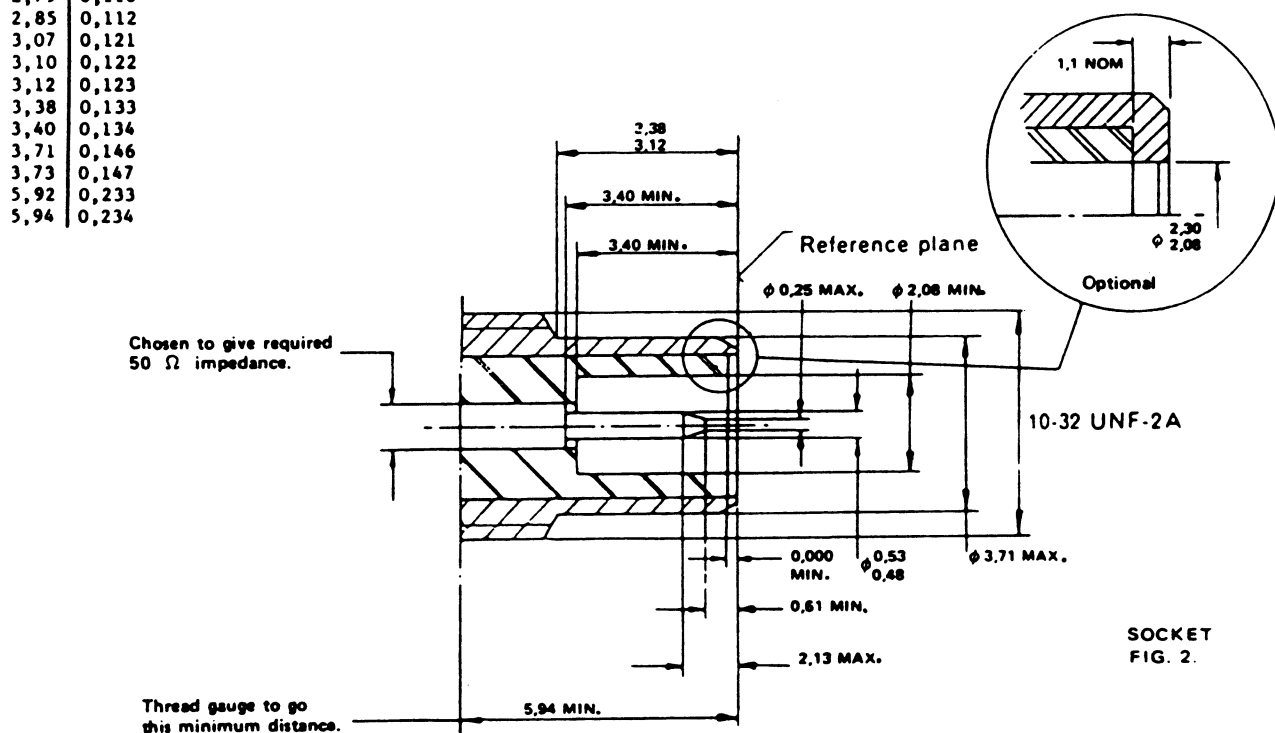
SECTION 2 - MATING FACE AND GAUGE INFORMATION

2.1 Dimensions - general purpose connectors.

All undimensioned pictorial configurations are for reference purposes only.



PLUG
FIG. 1.



SOCKET
FIG. 2.

2.2 Gauges for general purpose connectors

Inch dimensions are original dimensions. All undimensioned pictorial configurations are for reference purposes only.

2.2.1 Gauge for female centre contact

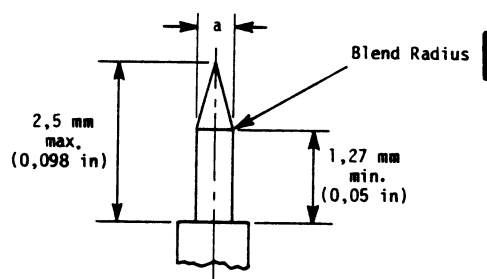


Fig. 3. Gauge pin for centre contact of socket connector (for dimension 'a' see below)

Gauge A - maximum material for sizing purposes					Gauge B - minimum material - for measurement of gauge retention force			
					Mass (weight) of gauge: 28 ± 1 g			
Ref.	mm		in		mm		in	
	min.	max.	min.	max.	min.	max.	min.	max.
a Ø	0,533	0,538	0,0210	0,0212	0,477	0,482	0,0188	0,0190
Material: Steel, polished surface roughness Ra = 0,4 µm (16 µin) max.								

Test procedure (see 4.5.1 of CECC 22 000).

Gauge A shall be inserted once only into the female centre contact.
This is a sizing operation.

After this, Gauge B shall be inserted into the female centre contact.
The contact shall support the mass of the gauge in a vertical downward attitude.