EESTI STANDARD EVS-EN 122110:2002

Sectional specification: radio frequency coaxial connectors; series SMA

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EESTI STANDARDIKESKUS

EESTI STANDARDI EESSÕNA **NATIONAL FOREWORD**

Käesolev Eesti standard EVS-EN 122110:2002 sisaldab Euroopa standardi EN 122110:1993 ingliskeelset teksti. Käesolev dokument on jõustatud 18.12.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 122110:2002 consists of the English text of the European standard EN 122110:1993. This document is endorsed on 18.12.2002 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This sectional specification applies to miniature screw-coupled coaxial connectors, Series SMA. It prescribes mating-face dimensions for general purpose connectors and standard test connectors, Grade O, together with gauging information. It also indicates recommended performance characteristics to be considered when writing detail specifications, and covers the test schedules and inspection requirements for Assessment Level M, H and U.	**Scope:** This sectional specification applies to miniature screw-coupled coaxial connectors, Series SMA. It prescribes mating-face dimensions for general purpose connectors and standard test connectors, Grade O, together with gauging information. It also indicates recommended performance characteristics to be considered when writing detail specifications, and covers the test schedules and inspection requirements for Assessment Level M, H and U.

ICS 33.120.30

Võtmesõnad: coaxial connecto, components, connecting dimensions, electric plugs, electrical engineering, electronic, electronic equ, electronic equipment and components, properties, quality, radiofrequency connectors, radio-frequency plugs, sectional specification, testing

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 122110

May 1993

Supersedes CECC 22110 Issue 1 : 1982

Descriptors: Quality, electronic components, connectors

English version

Sectional specification: Radio frequency coaxial connectors. Series SMA

Spécification intermédiaire:
Connecteurs coaxiaux pour fréquence radioélectrique.
Série SMA

Rahmenspezifikation:
Hochfrequenz-Koaxial-Steckverbinder.
Serie SMA

This European Standard was approved by the CENELEC Electronic Components Committee (CECC) on 5 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 Baulemente 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 22110 Issue 1 : 1982 (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)3338 it was approved by CECC as EN 122110 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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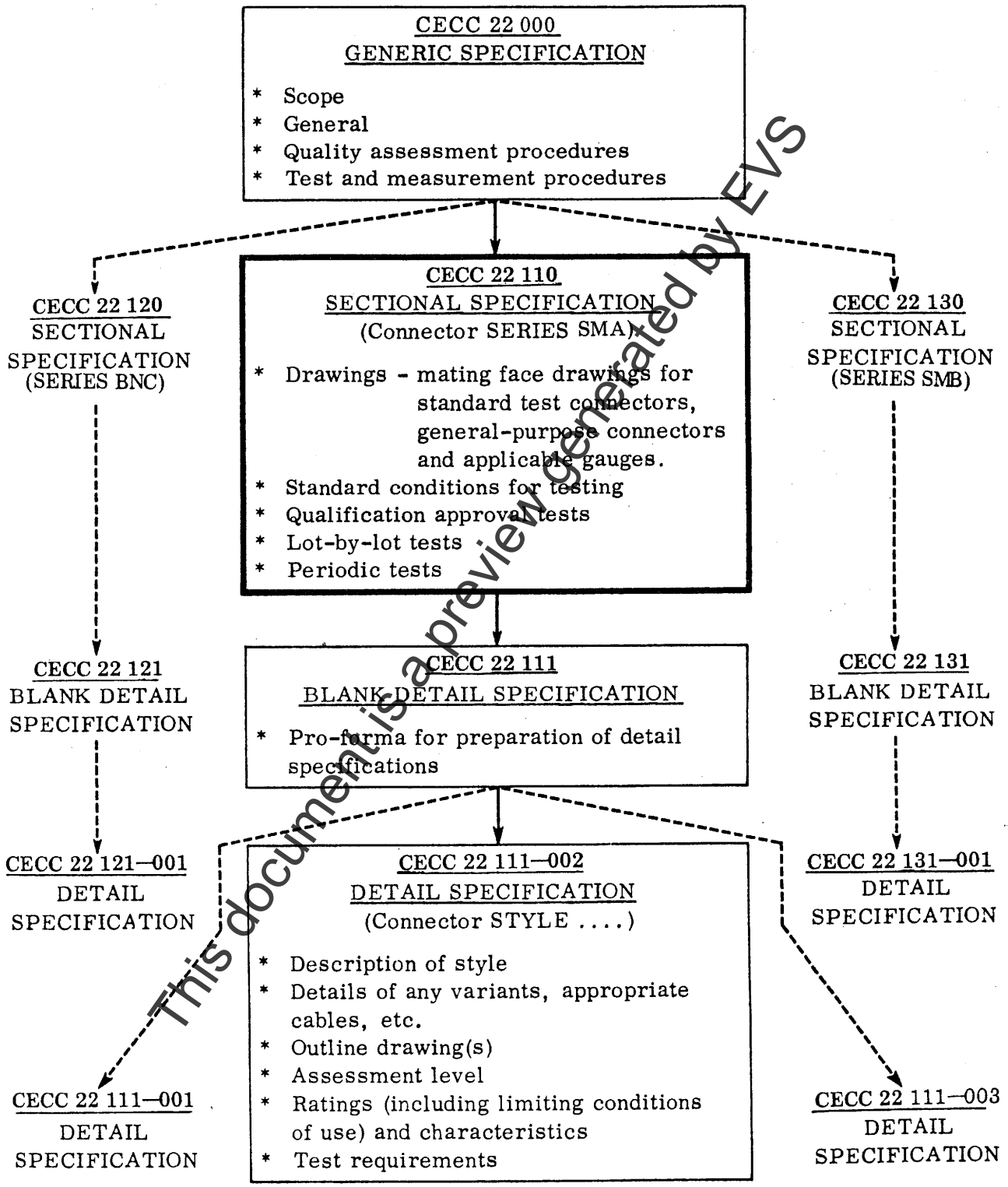
* National standard (excluding national implementation of IECQ specifications)

CECC SPECIFICATION SYSTEM
for R. F. Connectors



NOTE: A detail specification is a 'completed' blank detail specification

SECTION 1 - SCOPE

This sectional specification applies to miniature screw-coupled coaxial connectors, Series SMA. It prescribes mating-face dimensions for general purpose connectors and standard test connectors, Grade 0, together with gauging information. It also indicates recommended performance characteristics to be considered when writing detail specifications, and covers the test schedules and inspection requirements for Assessment Level M, H and U.

SECTION 2 – MATING FACE AND GAUGE INFORMATION

2.1. Dimensions – General purpose connectors

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

2.1.1. Plug

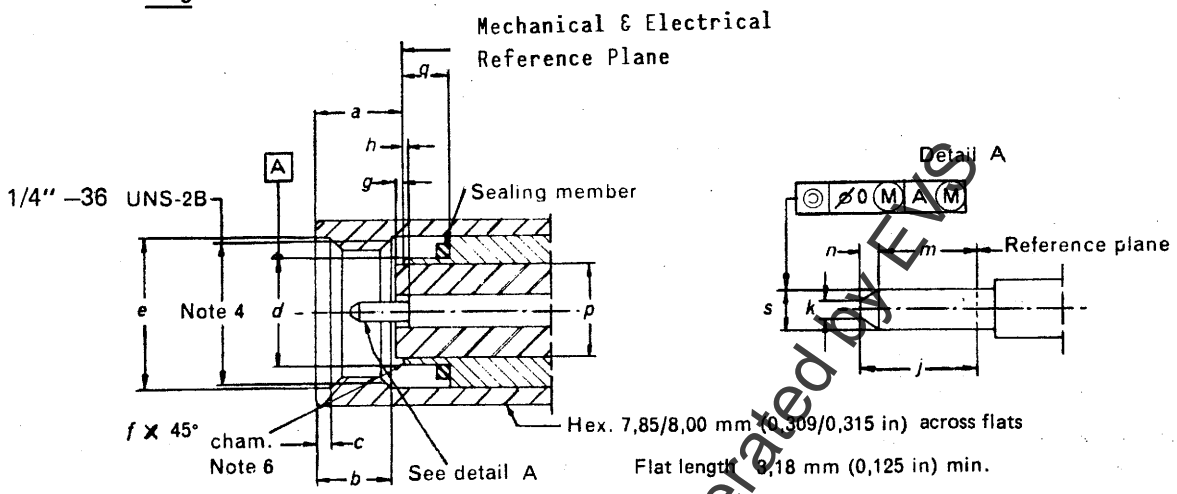


FIG. 1. – Plug (for dimensions, see table).

Ref.	mm		in		Note
	Min.	Max.	Min.	Max.	
a	–	3,43		0,135	3
b	2,54	–	0,100	–	
c	0,38	1,14	0,015	0,045	
d	–	4,59	–	0,1808	diam. 4
e	6,35	–	0,250	–	diam. 4
f	–	0,08	–	0,003	6
g	–	–	–	–	5
h	0,00		0,000	–	
j	–	2,54	–	0,100	
k	–	0,38	–	0,015	diam.
m	1,27	–	0,050	–	
n	0,38	–	0,015	–	
p	–	4,178	–	0,1645	diam. 2
q	–	–	–	–	7
s	0,902	0,940	0,0355	0,0370	diam.

Notes:

1. When centre conductor of semi-rigid cable is used to form centre contact, the conductor shall be trimmed to simulate the details shown in Fig 1, Detail A.
2. Choose diameter to meet electrical requirements.

   Dimension p refers to diameter of the dielectric in the vicinity of the reference plane and may deviate from the value given. When the centre conductor of the cable is used as the contact pin, the inner diameter of the outer conductor becomes dimension p.
3. Coupling nut in forward position.
4. Diameters d and e and screw thread when at MMC shall be on a common axis.
5. When the dielectric is PTFE the maximum projection of the dielectric beyond the reference plane shall be 0,05mm (0,002 in).
6. 0,08mm (0,003 in) max. radius optional.
7. Dimension q shall be such that the reference planes coincide and the connectors meet the required environmental performance.