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**Področna specifikacija - Radiofrekvenčni koaksialni konektorji - Serija MMCX**

Sectional specification: Radio frequency coaxial connectors - Series MMCX

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EUROPEAN STANDARD

**EN 122340**

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2002

ICS 33.120.30

English version

**Sectional Specification:  
Radio frequency coaxial connectors -  
Series MMCX**

Spécification intermédiaire:  
Connecteurs pour fréquence  
radioélectrique -  
Série MMCX

Rahmenspezifikation:  
Hochfrequenz-Steckverbinder -  
Serie MMCX

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This European Standard was approved by CENELEC on 2001-11-01. 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. 7409-4806-a654-

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. e843b954d638/sist-en-122340-2005

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.

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**CENELEC**

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

**Central Secretariat: rue de Stassart 35, B - 1050 Brussels**

### Foreword

This European Standard was prepared by former Technical Committee CENELEC TC 46D, RF connectors (disbanded by 105 BT in October 2000).

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 122340 on 2001-11-01.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 2002-11-01
  - latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2004-11-01
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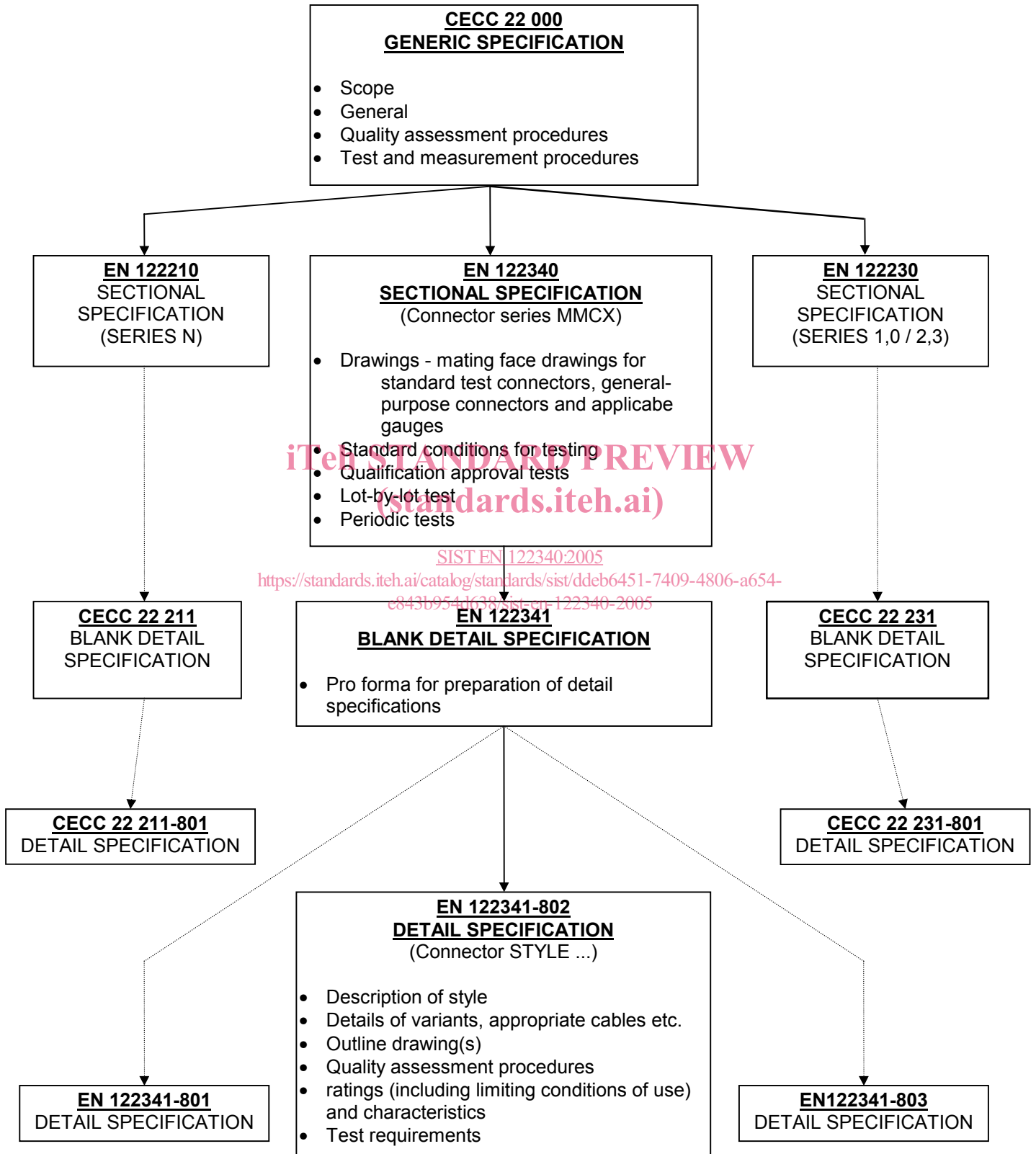
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**CECC-SPECIFICATION SYSTEM  
FOR HF CONNECTORS**



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

Document numbering for RF connector specifications is in the process of conversion to conform with CENELEC PNE Rules, affecting generic, sectional and blank detail specifications but not CECC detail specifications.

Detail specifications (DS) shall be prepared using general blank detail specifications (BDS) EN 122001 (for military connectors), EN 122002 (for commercial connectors).

When completed, the detail specification (DS) applicable to this sectional specification (SS) shall be renumbered in accordance with 4.2 of CECC 00 700 (Section IV) Issue 1, as if a 'dedicated BDS' EN 122341 had been used.

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## 1 Scope

This sectional specification (SS) provides information and rules for the preparation of detail specifications (DS) for miniature snap-on interfaces for use with both flexible and semi-rigid coaxial cables (Series MMCX). The connectors are usable to a frequency of at least 6 GHz.

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 DSs relating to Series MMCX connectors.

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

## 2 Mating face and gauge information

### 2.1 Dimensions - General purpose connectors

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

#### 2.1.1 Plug

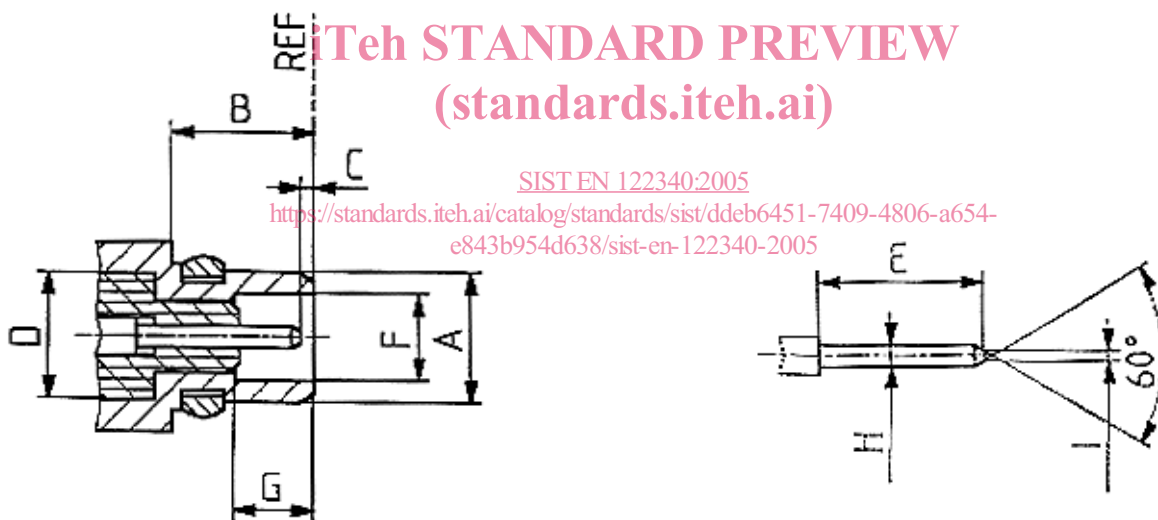


Figure 1 - Plug with male centre contact

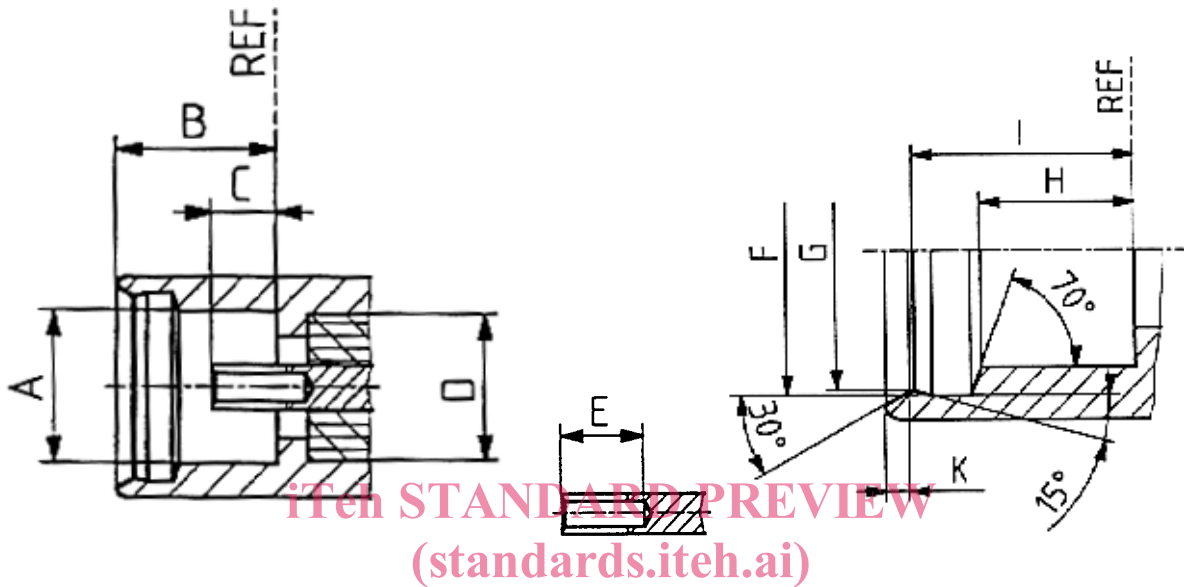
Table 1

Ref.	mm		Note
	min.	max.	
A	---	2,40	Diameter
B	2,70	---	
C	0,00	0,25	
D	2,32	2,35	Diameter <sup>1</sup>
E	---	3,15	
F	1,58	1,62	Diameter <sup>2</sup>
G	1,45	---	
H	0,38	0,42	Diameter
I	---	0,20	Diameter



- NOTE 1 Diameter of centre conductor and of uniform transmission line to give required characteristic impedance of 50 Ω.
- NOTE 2 Diameter chosen to meet mechanical and electrical requirements and to compensate for electrical effect of slots.
- NOTE 3 Angular tolerance ± 2 °.

**2.1.2 Socket**



**Figure 2 - Socket with female centre contact**

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**Table 2**

Ref.	mm		Note
	min.	max.	
A	2,41	---	Diameter
B	2,60	---	
C	0,90	1,20	
D	2,32	2,35	Diameter <sup>1</sup>
E	1,40	---	
F	3,00	3,04	Diameter
G	2,88	2,90	Diameter
H	1,57	1,63	
I	2,30	2,34	
K	---	0,23	

- NOTE 1 Diameter of centre conductor and of uniform section of transmission line to give required characteristic impedance of 50 Ω.
- NOTE 2 Bore diameter of centre conductor and closure to meet electrical and mechanical requirements.
- NOTE 3 Angular tolerance ± 2°.

**2.2 Gauges for general purpose connectors**

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