

CECC

CONNECTEURS COAXIAUX POUR FREQUENCE RADIOELECTRIQUE Série SMC

RADIO FREQUENCY COAXIAL CONNECTORS Series SMC

HOCHFREQUENZ- KOAXIAL-STECKVERBINDER Serie SMC



T

Edition
Issue
Ausgabe

CECC 22 141-806

1988



Documents

Document Sharing Hub

Cette page bleue doit être insérée après la page de garde de la CECC 22 141-806 Edition 1 (1988)

AMENDEMENT 1 A LA CECC 22 141-806, (Edition 1)

SPECIFICATION PARTICULIERE:

CONNECTEURS COAXIAUX POUR FREQUENCE RADIOELECTRIQUE
SERIE SMC

Les modifications suivantes doivent être effectuées.

Il est autorisé d'utiliser une rondelle frein à denture intérieure à la place d'une rondelle ondulée, dans la mesure où leur diamètre extérieur indiqué est conservé.

On distinguera dans les commandes et le stockage les variantes de la manière suivante: codes -01, -02, -03 etc. pour les rondelles ondulées, codes -11, -12, -13 etc. pour les rondelles frein à denture intérieure.

Supprimer les pages 1/2 et insérer les nouvelles pages 1/2 de l'Amendement 1. Les modifications se trouvent sur la page 1.

Enregistrer les modifications sur la feuille jaune 'Enregistrement de modifications'.

Cette proposition a été communiquée aux membres du GT22 sous la référence GT22(Secrétariat)655.

CECC 22 141-806 Edition 1 Amendement 1 1991

This blue page shall be inserted after the title page of CECC 22 141-806 Issue 1 (1988)

AMENDMENT 1 TO CECC 22 141-806, (Issue 1)

DETAIL SPECIFICATION:

RADIO FREQUENCY COAXIAL CONNECTORS SERIES SMC

The following amendments shall be made:

The use of an internal toothed lockwasher is permitted as an alternative to the crinkle washer indicated provided it does not exceed the outside diameter shown.

To allow discrimination in ordering and stocking, the Variant Codes -01, -02, -03 etc. will continue to be used for connectors fitted with crinkle washers. The corresponding connectors with toothed lockwashers will use Variant Codes -11, -12, -13 etc.

Remove pages 1/2 and insert new pages 1/2 of Amendment 1 which involves a change to page 1.

Enter this amendment on the yellow 'Record of Amendments' sheet.

This proposal was circulated to WG22 members under WG22(Secretariat)655.

CECC 22 141-806 Issue 1 Amendment 1 1991

Dieses blaue Blatt ist nach dem Titelblatt der CECC 22 141-806 Ausgabe 1 (1988) einzusetzen

ÄNDERUNG 1 ZU CECC 22 141-806, (Ausgabe 1)

BAUARTSPEZIFIKATION:

HOCHFREQUENZ-KOAXIAL-STECKVERBINDER SERIE SMC

Die folgenden Änderungen sind vorzunehmen:

Der Gebrauch einer innen gezahnten Sicherungsscheibe ist als Alternative zur Federscheibe zulässig, wenn diese den angegebenen Außendurchmesser nicht überschreitet.

Zur Unterscheidung bei der Bestellung und der Lagerung wird für Steckverbinder, die mit Federscheiben eingesetzt werden, der Variantencode -01, -02, -03 etc. weiterverwendet. Für die entsprechenden Steckverbinder mit gezahnten Sicherungsscheiben lauten die Variantencodes -11, -12, -13 etc.

Die Seiten 1/2 sind herauszunehmen und durch die neuen Seiten 1/2 dieser Änderung 1 zu ersetzen, die eine Neufassung auf Seite 1 enthält.

Die Änderung ist in das gelbe Blatt der Änderungsliste einzutragen.

Dieser Vorschlag wurde mit dem Schreiben WG22(Sekretariat)655 den WG22-Mitgliedern zur Kenntnis gebracht.

CECC 22 141-806 Ausgabe 1 Änderung 1 1991



Documents

Document Sharing Hub

Information about the System may be obtained from:



FEN Secretariat
and
CECC General Secretariat
Stresemannallee 15
D-6000 Frankfurt/Main 70
Telefon: Int.+ (49) 69 6 30 82 83
Telex 4-12871 vdetz d
Telefax Int.+ (49) 69 6 30 82 83 (Gr. 2/3)
or from the National Authorized Institutions
of the participating countries listed
who can supply copies of:

- 1 The Internal Regulations of the FEN e.V.
- 2 CECC Specifications of the FEN and National Specifications for the System
- 3 CECC 00 200: Qualified Products List (QPL)
- 4 CECC 00 300: CECC Publications and their related national documents

Austria

Österreichischer Verband
für Elektrotechnik
Eschenbachgasse 9
A-1010 Vienna

Belgium

Comité Electrotechnique Belge
Galerie Ravenstein 3
Boîte 11
B-1000 Brussels

Denmark

Dansk Elektroteknisk Komite
Strandgade 36
DK-1401 Copenhagen K

Finland

Finnish Electrotechnical
Standards Association
P.O. Box 134
SF-00211 Helsinki 21

France

Union Technique de l'Electricité
Participation française au CECC
12, Place des Etats-Unis
F-75783 Paris Cedex 16

Germany

Deutsche Elektrotechnische
Kommission im DIN und VDE
Stresemannallee 15
D-6000 Frankfurt/Main 70

Ireland

EOLAS- The Irish Science and
Technology Agency
Glasnevin
IRL-Dublin 9

Italy

Comitato Elettrotecnico Italiano
Viale Monza, 259
I-20126 Milan

Netherlands

Nederlands Elektrotechnisch Comité
Postbus 5059
NL-2600 GB Delft

Norway

Norsk Elektroteknisk Komite
P.O. Box 280
Skøyen
N-0212 Oslo 2

Portugal

Instituto Português da Qualidade
Rua José Estêvão, 83A
P-1199 Lisbon Codex

Spain

Asociación Electrotécnica y Electrónica Española
Comité Español del CECC
Avda. de Brasil, 7
E-28020 Madrid 20

Sweden

Svenska Elektriska Kommissionen
Box 1284
S-16428 Kistå-Stockholm

Switzerland

Schweizerischer Elektrotechnischer
Verein
Postfach
CH- 8008 Zürich

United Kingdom

British Electrotechnical Committee
British Standards Institution
2, Park Street
GB-London W1A 2BS

**Copyright - all rights reserved**

No part for this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Droits de reproduction réservés

Aucune partie de cette publication ne peut être reproduite ni utilisée sous quelque forme que ce soit et par aucun procédé électronique ou mécanique, y compris la photocopie et les microfilms, sans l'accord écrit de l'éditeur.

Alle Rechte vorbehalten

Insbesondere darf kein Teil dieser Veröffentlichung in irgendeiner Form oder nach irgendeinem Verfahren, elektronisch oder mechanisch, einschließlich Fotokopieren und Mikrofilm, ohne schriftliche Einwilligung des Herausgebers vervielfältigt oder verwertet werden.

PREFACE

This detail specification (DS) was prepared by CECC Working Group 22: "RF Connectors".

It relates to Series SMC connectors covered by sectional specification CECC 22 140 and by blank detail specification CECC 22 141. These in turn are related to the generic specification CECC 22 000.

It is based, wherever possible, on the Publications of the International Electro-technical Commission, and in particular on IEC 169-9 (1978) Part 9: R.F. coaxial connectors with inner diameter of outer conductor 3 mm (0,12 in) with screw coupling - Characteristic impedance 50 ohms (Type SMC).

The text of this detail specification was circulated to the members of CECC WG 22 and was approved for publication under the accelerated procedure for the acceptance of detail specifications in accordance with Decision 10 of the minutes of the CECC CD in document(Secretariat)1838.

Document

WG22(Secretariat)378

Approval Date

January 1986

CECC 22 141-806 Issue 1

[1]	page 1 of 9	[2] CECC 22 141 - 806	
ELECTRONIC COMPONENT OF ASSESSED [3] QUALITY IN ACCORDANCE WITH GENERIC SPECIFICATION 22 000 SECTIONAL SPECIFICATION 22 140	[4]	Issue 1	

[5] DETAIL SPECIFICATION for

RADIO FREQUENCY COAXIAL CONNECTOR OF ASSESSED QUALITY:

SERIES

SMC

Fixed right angle socket, single hole mounting,
Style: solder bucket, male centre contact

Special Features & Markings:

Method of cable/wire* attachment: centre conductor - solder/~~crimp~~*
: ~~outer conductor - solder/clamp/crimp~~*

Mass: 5,0g (Max.)

*Delete as appropriate

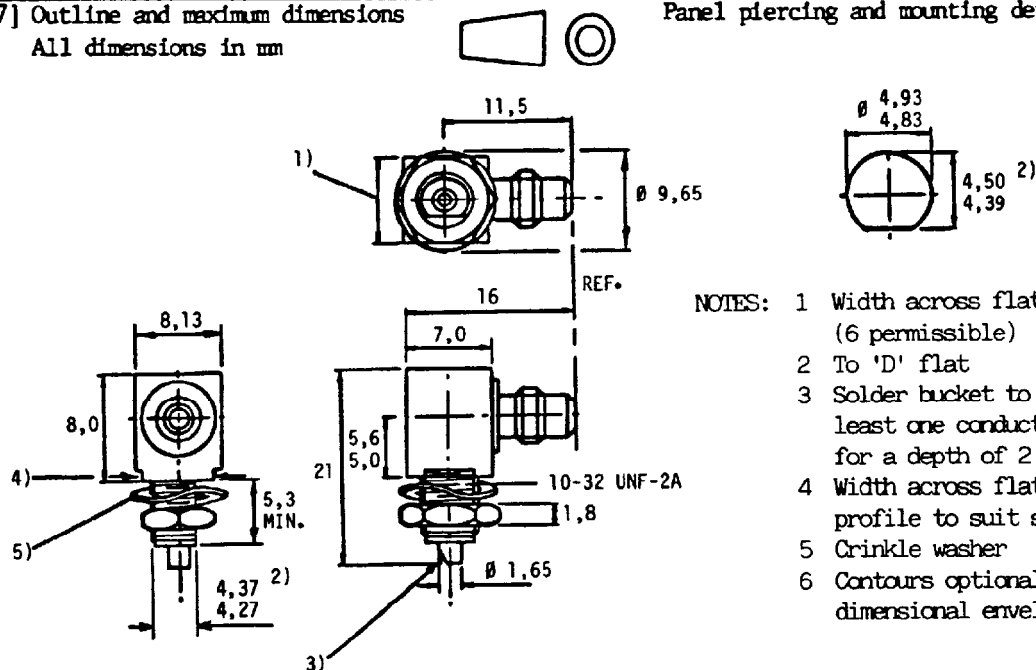
[6] Assessment level : H

Characteristic Impedance 50 Ω Climatic category 55/155/21

[7] Outline and maximum dimensions

Panel piercing and mounting details

All dimensions in mm



- NOTES: 1 Width across flats 6,35
(6 permissible)
2 To 'D' flat
3 Solder bucket to accommodate at
least one conductor 0,74 mm dia.
for a depth of 2 mm min.
4 Width across flats or hex.
profile to suit standard wrench
5 Crinkle washer
6 Contours optional within
dimensional envelope

For mating interface dimensions and position of reference plane see CECC 22 140

Maximum panel thickness: for front mounting 2,40.... mm, ~~for rear mounting~~~~The outline dimensions meet the requirements of~~

[8] Variants

Variant No.	Description of Variant	Relevant Cables		
		IEC 96	RG	National Cables
Body Shell Finish				
Au	Non-tarnish			
Plating				
-01	-02			
.....				
.....				
.....				

Information about manufacturers who have components qualified to this detail specification is
available in the current CECC 00 200: Qualified Products List

[9] PERFORMANCE (including limiting conditions of use)

RATINGS AND CHARACTERISTICS		CECC 22 140 CLAUSE	VALUE	REMARKS
ELECTRICAL				
Reflection factor	Variant No./ Designation			Measurement freq. range
	-01.....-02	4.4.1	NA.....	...Unmatched style...
				
				
				
				
				
				
Centre contact resistance		4.4.2	$\leq$ 5.... m Ω $\leq$...15.... m Ω	Initial After conditioning
Outer conductor continuity		4.4.3	$\leq$...2,5... m Ω $\leq$...7,5... m Ω	Initial After conditioning
Insulation resistance		4.4.4	$\geq$ 1.... G Ω $\geq$...500... M Ω	Initial After conditioning
+ Proof voltage at sea level		-01.....-02	4.4.5 1.... kV	86 to 106 kPa
+ Proof voltage at 20 km altitude		-01.....-02	4.6.5 100.... V	4,4 kPa

+ Voltage values are r.m.s. values of a.c. at 50 to 60 Hz unless otherwise stated.

RATINGS AND CHARACTERISTICS		CECC 22 140 CLAUSE	VALUE	REMARKS
ELECTRICAL				
+ Working voltage at sea level	Variant No./ Designation			
	-01.....-02		335.... V	86 to 106 kPa
+ Working voltage at 20 km altitude	-01.....-02		85.... V	4,4 kPa
Screening effectiveness	-01.....-02	4.4.8	$Z_t \leq \dots \Omega$	Providing $\geq$ dB
ADDITIONAL ELECTRICAL CHARACTERISTICS				
MECHANICAL				
Contact captivation:		4.5.2		
- axial force			4..... N	CECC 22 000 method (or as specified)
- torque			NA..... Nm	

+ Voltage values are r.m.s. values of a.c. at 50 to 60 Hz unless otherwise stated.

RATINGS AND CHARACTERISTICS		CECC 22 140 CLAUSE	VALUE	REMARKS
MECHANICAL				
Engagement and separation torque		4.5.4	..NA.. Nm max.	(to overcome friction of coupling nut)
Effectiveness of clamping device against cable pulling	Variant No./ Designation -01.....-02	4.5.5 (1)	NA..... N	
Effectiveness of clamping device against cable torsion	-01.....-02	4.5.5 (2)	NA..... Nm	
Tensile strength of coupling mechanism		4.5.6	NA..... N	
Coupling torque				
- normal			 to .. Nm	
- proof			NA..... Nm	
Bending moment		4.5.9	0,8.... Nm	Relative to reference plane
ADDITIONAL MECHANICAL CHARACTERISTICS				