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PREFACE

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

It relates to Series MCX connectors covered by sectional specification CECC 22 220 and by blank detail specification CECC 22 221. These in turn are related to the generic specification CECC 22 000.

The text of this DS was circulated to the CECC for voting in the document detailed below and was ratified by the President of the CECC for printing as a CECC specification.

<u>Document</u>	<u>Voting Date</u>	<u>Report on the Voting</u>
CECC (Secretariat) 1735	June 1985	CECC (Secretariat) 1862

RATINGS AND CHARACTERISTICS	CECC 22 220 CLAUSE	VALUE	REMARKS
MECHANICAL			
Engagement and separation - axial force	4.5.4	..na. N max. ..na. N min.	
Effectiveness of clamping device against cable pulling	4.5.5 (1)	..na..... N	
Effectiveness of clamping device against cable torsion	4.5.5 (2)	..na..... Nm	
Bending moment	4.5.9	0.5..... Nm	Relative to reference plane
ADDITIONAL MECHANICAL CHARACTERISTICS			
ENVIRONMENTAL			
Vibration	4.6.3	..98..... m/s ² ..10..to.500Hz	(.10g acceleration)
Climatic Category	4.6.5	..55/.155/.21.	
Sealing (panel and barrier sealed connectors)	4.6.8	..na.....	100 to 110 kPa pressure differential (1000 to 1100 mbar)

RATINGS AND CHARACTERISTICS	CECC 22 220 CLAUSE	VALUE	REMARKS
ENVIRONMENTAL			
Sealing (hermetically sealed connectors)	4.6.9	na.....	100 to 110 kPa pressure differential (1000 to 1100 mbar)
ADDITIONAL ENVIRONMENTAL CHARACTERISTICS			
ENDURANCE			
Mechanical	4.7.1	500 operations	
High temperature	4.7.2	1000..... h at 155..... °C	
ADDITIONAL ENDURANCE CHARACTERISTICS			

[10] SUPPLEMENTARY INFORMATION

- marking of the component: in accordance with 2.4 of CECC 22 000, in the following order of precedence:

(1) Component identification	Variant No./ Designation	Identification
	-01	22 221-804/01
		
		
		
		
		
		
		
(2) Identification of manufacturer:		
(3) Manufacturing date code; year/week.		

- marking and contents of package: in accordance with 2.5 and 2.5.1 of CECC 22 000 as follows:

- (1) Information prescribed in 2.4 of CECC 22 000 detailed above
- (2) Nominal characteristic impedance 50 Ω.....
- (3) Assessment level code letter H.....
- (4) Any additional marking required

- ordering information: in accordance with 2.6 of CECC 22 000 as follows:
 - (1) Number of the detail specification CECC 22 221-804/Variant code
 - (2) Assessment level code letter ...H.....
 - (3) Body finish (if more than one listed) see variant numbers in [8]
 - (4) Any additional information or special requirements
 - related documents (if not included in CECC 22 000 or CECC 22 220):
.....
.....
 - certified test records (RCE): in accordance with 3.7 of CECC 22 000
(when applicable) (requirements to be included later)
 - structural similarity: in accordance with 3.2 and 3.4 of CECC 22 000
- NOTE: Relevant information on a basic style should be entered as variant 01.

[11] TEST SCHEDULES AND INSPECTION REQUIREMENTS - SERIES MCX

Details of tests and quality assessment inspection requirements for Levels H and U are given in 5.1 of CECC 22 220.

ACCEPTANCE TESTS

	CECC 22 220 Clause	Level H		
		Test Required	IL	AQL
GROUP A1				
Visual examination	4.2	a	S 3	1,5 %
GROUP B1				
Outline dimensions	4.3.1	a	S 3	4 %
Compatibility mechanical	4.5.7	a	S 3	1,5 %
Engagement and separation	4.5.4	na		
Gauge retention force (resilient contacts)	4.5.1	a	S 3	1,5 %
Sealing (panel and barrier)	4.6.8	na		
Sealing (hermetic)	4.6.9	na		
Voltage proof	4.4.5	a	S 3	4 %

PERIODIC TESTS

	CECC 22 220 Clause	Test Required	IL	AQL	Period
GROUP C1(d)					
Soldering	4.6.1	a	S 3	4 %	1 yearly
Insulation resistance	4.4.4	a	S 3	4 %	1 yearly

For notes relating to symbols: See page 9.

	CECC 22 220 Clause	Test Required	Specimens (may be from Cl)	Permitted Failures per group†	Period
GROUP D1(d)					
Mechanical tests on cable clamping device	4.5.5	na	3 mated pairs or sets min.	1	3 yearly
Bending moment	4.5.9	a			
GROUP D2(d)					
Contact resistance	4.4.2	a			
Outer conductor continuity	4.4.3	a			
Vibration	4.6.3	a	3 mated pairs or sets min.	1	3 yearly
Damp heat, steady state	4.6.6	a			
Salt mist	4.6.10	a			
GROUP D3					
Dimensions and materials (piece parts)*	4.3.2	a	1 set of piece parts each style	1	3 yearly
Mass	4.3.1	a			
GROUP D4(d)					
Mechanical endurance	4.7.1	a	3 mated pairs or sets min.	1	3 yearly
High temperature endurance	4.7.2	a			
GROUP D5(d)					
Reflection factor	4.4.1	na			
Screening effectiveness	4.4.8	na			

For notes relating to symbols: See page 9.