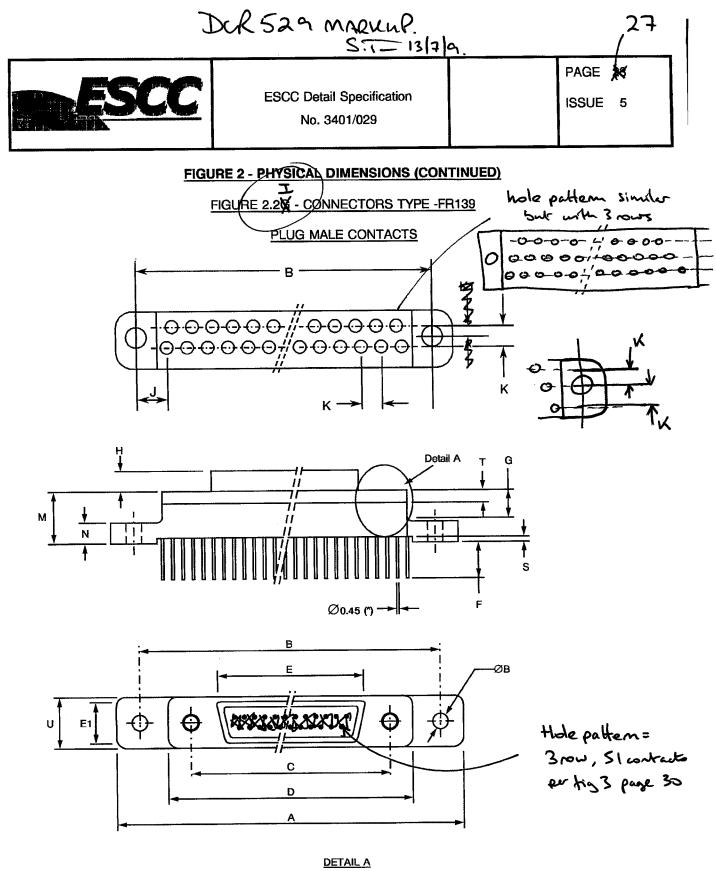
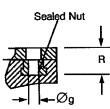
	ESC	C	DC	DCUMENT	CHANGE REQUEST	
DCR number	529	Changes required for: N/A			Originator: Olivier Masson Chief	
Date: 2009/07	7/06	Date sent: 2	2009/07/06		Organisation: CNES	
Status: IMPLE	EMENTED					
Title:	Connectors Electric	cal Rectangula	ar Microminiature	e, based on type l	MDM	
Number:	3401/029 Issue: 5					
Other documen	ts affected:			-		
Page:						
Variants size 57	1 FR139 to be adde	d				
Paragraph:						
Variants size 57	1 FR139 to be adde	d				
Original wording	g:					
Proposed wordi	ing:					
New variant to be added after page 26 of the 3401/029 issue 5						
Justification:						
Variants added in the re-qualification programm and tested successfully						
Attachments:						
DCR529att.pdf, DCR529_change_wording.pdf, null						
Modifications:						
Additional changes required to fully implement this DCR are: Page 7, Table 1(a), replace "N/A" for Max. Weight (g) for shell size 51 for FR139 by 10.5 Clarify addition of new Pages 27 & 28, new Figures 2.2I & 2.2J based on the drawing provided in DCR529 (with 51 contacts), similar to Figures 2.2G & 22.H including notes (see attached mark-ups). i.e.						
Figure 2.2I – Connectors Type -FR139 Plug Male Contacts Figure 2.2J – Connectors Type -FR139 Receptacle Female Contacts						
Page 24 & 26, Figures 2.2G & 2.2H, delete note 2 and renumber subsequent notes accordingly.						
Approval signature:						

R. C. Hari-9

Date signed:

2009-07-06





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No. 3401/029

FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2.2G - CONNECTOR TYPE - FR139 (CONTINUED)

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3.91	<i>ф</i> /	TND.					
4.72	I	Max.	4.72 4.72 4.72 4.72 4.72		Max.	7.82 7.82 7.82 7.82 7.82 7.82	<i>~</i>
t	U	Min.	4.6 4.6 4.6 4.6 4.6 4.6			A	۲ ۲
t. 87		Max.	4.85 4.85 4.85 4.85 4.85 4.85 4.85	÷	Max.	64.9 64.9 64.9 64.9 64.9 64.9 64.9 64.9	4
4.15 4	LL]	Min.	4 4 4 15 4 4 4 15 4 15 7 15 7 15 7 15 7 15 7 15 7 15 7 15 7		Min.	2 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	2.23
œ					Max.		Ξ
TINUED		Max.	4 4 4 4 4 4	S	Min.	0.9 0.9 0.9 0.9 0.9 0.9	6.0
24.97	ШI	Max.	8.46 16.08 16.08 18.62 22.48 26.24 26.24	ч	Min.	4.6 4.6 4.6 4.6 4.6 4.6	- -
<u>PLUG MALE CONTACTS (CONTINUED)</u> .13 30.99 36.5 24.97 5.子	۵I	Max.	19.94 23.75 27.56 30.10 33.91 37.72		Max.	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4.2
MALE O		Max.	14.48 18.29 22.1 24.64 32.26	zı			-
20.75 3		Min.	14.22 18.08 21.84 24.38 28.19 32.0		Min.	4.0	
ې د م		Max.	2.59 2.59 2.59 2.59 2.59 2.59 2.59 2.59	Σ	Max.	9.02 9.02 9.02 9.02	9-02
۲ ۲	ØB €	\vdash			Min.	8.62 8.62 8.62 8.62 8.62 8.62	8.62 Rien:
2.51		Min.	2.31 2.31 2.31 2.31 2.31 2.31	Η.		ISTRE	A LAND
53.16 53.52		Max.	29.39 29.39 37.01 38.28 45.9 53.52		Typ.	2554 2554 2554 2554 2554	2.54 1.20 3.6 2.54 1.20 3.6 illimetres. #6.8.3 of this specification.
53.16		Min	29.03 29.03 36.65 37.92 45.54 53.16				
59.44	A	Max.	35.31 35.81 42.93 51.82 51.82 59.44	<u> </u>	Size	0 9 7 8 7 6	
15		Size	33 33 33 33 33 33 33 33 33 33 33 33 33				TES All dimensions are For CAN effection-Ba Øg: 2-56-UNC-2B Maximum torque 0
با لب	<u>_</u>						NOTES 1. All di 8. Øg: 4. Maxi
21,- 3						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		<u> </u>					25

PAGE 24'28

ISSUE 5

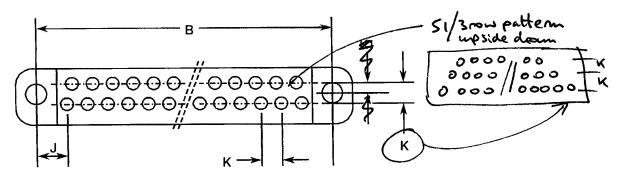


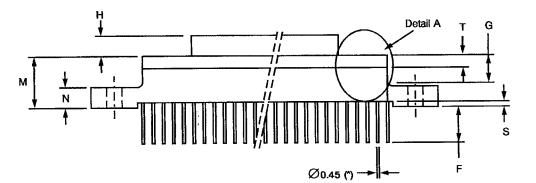


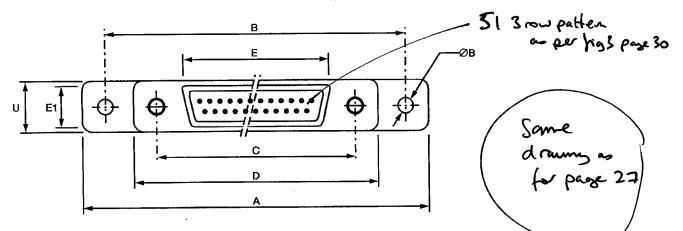
FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2.2H - CONNECTORS TYPE -FR139

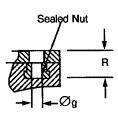
RECEPTACLE FEMALE CONTACTS







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FIGURE 2 - PHYSICAL DIMENSIONS (CONTINUED)

FIGURE 2.2H - CONNECTOR TYPE - FR139 (CONTINUED)

3.81 2.54	× ¬	Typ. Typ.	9.63 2.54 5.72 2.54 5.72 2.54 3.81 2.54				
i S S S S S S S S S S S S S S S S S S S		Max.	5.05 5.05 5.05 5.05	5.05 5.05			
t	σ	Min.	4.6 4.6 4.6	4.6	5	Max.	7.82 7.82 7.82 7.82 7.82
t.80		Max.	4.85 4.85 4.85	4.85 4.85		Max.	2.49 2.49 2.49 2.49 2.49 2.49
		Min.	4.15 4.15 15 15	4.15		Min.	2.23 2.23 2.23 2.23 2.23 2.23
CONTINU	ᆈ	Max.	6.38 6.38 6.38	6.38 6.38 6.38		Max.	
TACTS (Ш	Max.	10.16 13.97 17.78	24.13 27.94	S	Min.	0.9 0.9 0.9 0.9
ALE CON		Max.	19.94 28.35 27.56	30.10 33.91 37.72	ц	Min.	4.6 4.6 4.6 4.6 4.6 4.6
SEPTACLE FEMALE CONTACTS (CONTINUED)		Max.	14.48 18.29 22.1	24.04 28.45 32.26		Max.	4.2 4.2 4.2 4.2 4.2
RECEPTA		Min.	14.22 18.03 27.84	28.19 28.19 32.0	Z	Min.	0.4 4 4 4 4 0.0
с 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Max.	2.59	2.59	-	Max.	9.02 9.02 9.02 9.02 9.02 9.02
7 2 1	ØB	Min.	2.31 2.31 2.31	2.31	Σ	Min.	8.62 8.62 8.62 8.62 8.62 8.62 8.62
53.53	70.00	Max.	29.39 29.39 37.01	38.28 45.9 53.52	1×1	, Mija	121 121 121 121 121 121
Ca.ut St.IL S3.59 221		Min.	29.03 29.03 36.65	37.92 45.94 53.16	Shell	Size	9 21 31 37 37
29.00	V	Max.	35.31 35.31 42.93	51.82 59.44	E		
Shell Size		9 15 21	3 F 28				
\			Ĵ.				

NOTES 1. All dimensions are in millimetres. P. Par A. S. 3.3 of this specification. 2. 8. Øg: 2-56-UNC-2B. 3. 4. Maximum torque 0.44Nm.

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	CE PLAN EST LA PROPRIETE DE CBK CO ETRE REPRODUIT OU COMMUNIQUE SANS		ហ	ω 4	N
A	 2. Isolation with epoxy resin. Amring: Year Week / CK / FR (example : 0806 CK FR) Amring: Year Week / CK / FR (example : 0806 CK FR) Amring: Seconding to CAMINIV FR022 specification Controls according to CAMINIV FR022 specification Controls according to ES4-ESCC 3401 029 specification Fackaging: Individual plastic bag with identification ibbel For cavities identification, refer to drawing CU03024310009. 	PARTS-LIST SHELL [H174 code] SHELL FIRTZ Code] MULLATOR HOUSING CONTACTS PIGTALLS CAPTIVE NUT	NOTES : - 1 - Materials and finish :	-> ≤ 9 Max. -> 2 Pin : 5,78 Max. -> 5kt : 7,47 Max.	8,82±0,2 Pin : 4,72 Max. 4,1±0.1 Skt : 5,05 Max.
 8	in FR lexample : 0806 CK FR) tabulation FRIDS (see tabulation) MMOR PRO22 specification ALESCC 3401 029 specification ALESCC 3401 029 specification istic bag with identification label to fear to drawing CU030243Y0009	MATERIALS ALUMMWAN ALLOY 606176 ALUMMWAN ALLOY 606176 THERMOPLASTIC LCP THERMOPLASTIC LCP COPPER ALLOY COPPER ALLOY STANLESS STEEL			
L C		PLATING CHEMICAL NICKEL GOLD OVER CHEMICAL NICKEL - - - - - - - - - - - - - - - - - - -		59.44 Max. 53.34±0.18 36.5 Max. 30.86±0.13 Phr: 24.97 Max. Skt: 26.67 Max.	
				24 <u>5±014</u> Max. torque : 4.4 cm	236±013 5k
E			Recommended PCB Hole Scale 5	유 응 왕 왕 도 지 공 CONTACT TYPE	$45\pm0.35 \qquad \qquad$
		20.32 (17.78) (15.24)		REFERENCES ACCORDING TO FR022 (plating A174) Part-Number Description 18288-6157 MDM-SISFR139-A174-FR022 18288-6158 MDM-SISFR139-A174-FR022	2.54±0.13
G	LKUBAT	12.7.7 A 10.16 A 10		REFERENCES ACCORDING TO CANNON FR022 SPECIFICATION (a) (4) R022 (plating AI74) FR022 (plating FR172) Description Part-Number Description MDM-SIPFR139-AI74-FR022 115289-6159 MDM-SISFR139-FR172-FR022 MDM-SISFR139-AI74-FR022 115289-6160 MDM-SISFR139-FR172-FR022	
	귄	0 0 0 0 0 0 0 0 0 0 0 0 0 0		AL Part-Num 22 115366-90	O C C C C C C C C C C C C C C C C C C C
	Image: Constraints 1 1	ID.05 γ <		0 ESA/ESC 39 Pa	
J	Y0039	2032) → PROTECTION PROTECTION United compares PROTECTION PROTECTION FROM E		306-6555 3401029 SPECIFICATION 3 3401029 3401029028 34010	

REV. N° DCR

NATURE DE LA MODIFICATION

DATE VISA