DOCUMENT CHANGE REQUEST

DCR number 336	Changes required for: N/A	Originator: Olivier Masson Chief
Date: 2007/04/24	Date sent: 2007/04/24	Organisation: CNES
Status: IMPLEMENTED		

Title:	Accessories for Rectangular Connectors 3401/001 and 3401/002 and Connector Savers 3401/020		
Number:	3401/022	Issue:	2

Other documents affected:

Page:

Note 6 page 8

The spacing between the reference planes of 2 mated connectors shall be adjusted by the use of 0,1 or 2 washers so the spacing equals to dimension G

TO BE REPLACED BY

The spacing between the reference planes of 2 mated connectors shall

Paragraph:

Note 6 page 8

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TO BE REPLACED BY

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Original wording:

Proposed wording:

Note 6 page 8

The spacing between the reference planes of 2 mated connectors shall be adjusted by the use of 0,1 or 2 washers so the spacing equals to dimension G

TO BE REPLACED BY

The spacing between the reference planes of 2 mated connectors shall be adjusted by the use of 3 washers maximum so the spacing equals to dimension G

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Justification:

G mini = Kmin +2x Mmini = 4.60+2x0.66 = 5.92 mm mini
Piece parts (screwlock head and washers) within the tolerances may lead to a spacing G below the minimum specified.
As a consequence, we propose to allow the use of 3 washers in such a case to have the G dimension inside the tolerances.

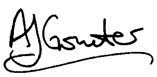
Attachments:

DCR336att.pdf, null

Modifications:

N/A

Approval signature:



Date signed:

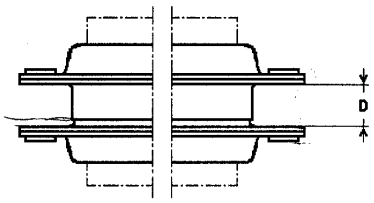
2007-04-24

CONDITIONS DE MONTAGE
D-SUB

1) Cote d'inter espace entre D-Sub Male / femelle.

DSubminiature Space Connectors — General

Mounting Conditions



Shell Size	D min	D max
E	6,35 (.250)	7,11 (.280)
A	6,35 (.250)	7,11 (.280)
B	6,12 (.241)	6,88 (.271)
C	6,12 (.241)	6,88 (.271)
D	6,12 (.241)	6,88 (.271)

Pour des D-Sub de taille "E" la cote D doit être comprise entre 6.35 – 7.11 mm.

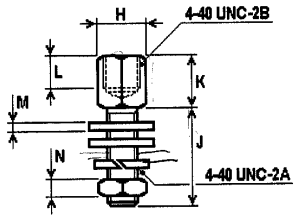
2) Dimension female screwlock.

Female Screwlock

Kit consists of :
- 1 screwlock
- 2 washers
- 1 lock washer
- 1 nut

Max weight (grams) : 2.0 (1 piece)

Two washers are used when front mounting.
Remove one washer for each 0,76 (.030) of panel thickness when rear mounting.
1,52 (.060) max panel.

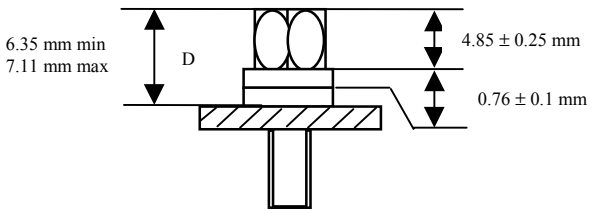


ESA/SCC 3401 Variant	Application	H ± 0,38 (.015)	J ± 0,15 (.006)	K ± 0,25 (.010)	L min	M ± 0,10 (.004)	N ± 0,10 (.004)
01 / 48	Standard	4,75 (.187)	7,92 (.312)	4,85 (.191)	3,18 (.125)	0,76 (.030)	1,90 (.075)
06 / 53	Savers	4,75 (.187)	14,50 (.571)	4,85 (.191)	3,18 (.125)	0,76 (.030)	1,90 (.075)
58 / 59	Feedthrough	4,75 (.187)	15,87 (.625)	4,85 (.191)	3,18 (.125)	0,76 (.030)	1,90 (.075)

3) Calcul de la cote d'inter espace entre D-Sub Male / femelle

La cote d'inter espace entre D-Sub male et femelle est definie par la "female screwlock.
L'obtention de la cote d'inter-espace est déterminé par les dimensions de la tête de vis, l'utilisation de rondelles permetant d'ajuster cette dernière aux dimensions desirées ;

Aujourd'hui l'utilisation de 2 rondelles pour chaque vis ne nous permet pas de tenir la cote d'inter espace desirée. Cela s'explique par les tolerances dimensionnelles des vis et rondelles qui peuvent amener à rendre la cote d'inter espace hors sanctions.



Cas 1 : *calculs avec cote tête de vis et rondelles min (utilisation de 2 rondelles).*
D = (4.85 – 0.25) + 2 (0.76 – 0.10) = **5.92 mm** → < 6.35 mm ***Non Conforme aux recommandations***

Cas 2 : *calculs avec cote tête de vis et rondelles max (utilisation de 2 rondelles).*
D = (4.85 + 0.25) + 2 (0.76 + 0.10) = **6.82 mm** → 7.11 < D < 6.35 mm ***Conforme aux recommandations***