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Subject : Technical package for « contact capability » sampling test 10% for connectors ESCC qualified

CNES

To the attention of Mr. Olivier PERAT
DTS/AQ/QCP/TP
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18, avenue Edouard Belin
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Mr Perat,

The 100% « contact capability » test described in ESCC 3401 specification has never been performed on MDM connectors defined in ESCC 3401/029 specification.
We never had any complaints or failure on this product during the last 20 years.
In addition to this, we performed a statistic analysis in order to check the capability with very satisfying results.
You will find attached the related tests reports.
We are also performing a 100% visual inspection under binocular on the contacts which guarantee indirectly the conformity.

The same study was performed on Socket starclip contacts for D-Sub connectors 3401/001, 3401/002 and savers 3401/020.
Results are also satisfying.
These Socket starclip contacts are delivered since 1998 and we never found any failure even after testing several millions contacts.

As a consequence, we would like to standardize a sampling inspection (10%) for this « contact capability » test for all our contacts qualified according to ESCC 3401 specification.
DCR to modify the specifications 3401/001, 005, 029, and 078 will be submitted.
They will be formalized in appendix section for « agreed deviations for C&K » (see example below).

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APPENDIX 'A'

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AGREED DEVIATIONS FOR ITT CANNON (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Para. 4.2.2	Para. 9.3, Contact Retainer Test may be omitted provided that a 100% external visual inspection of the contact retainer clips positioned within the insert is performed in accordance with the ITT CANNON PID requirements.

The deviation will be mentioned and justified in PID in a specific section called « Ecart par rapport aux exigences des spécifications ESCC ».

Best regards,

Olivier MASSON

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Copy : Gérard BARITAUX, Jérôme BROCHOT, Sylvain ROCHON, Gilles PARGUEY