



## DOCUMENT CHANGE REQUEST

DCR number 179

Changes required for: Qualification

Originator: Olivier PERAT

Date: 2005/05/24

Date sent: 2005/05/24

Organisation: CNES

Status: IMPLEMENTED

Title: Accessories for Connectors Microminiature 3401/029, 3401/077 and Connector Savers 3401/041

Number: 3401/032

Issue: 1

Other documents affected:

Page:

- 1) table 1 (page 5) : remove and replace line No 3 by the table 6 of the cannon news (see attached file) page 14/14.
- 2) figure 2 (page 6, 7 , 9, 9a) : add "inactive for new design" under "Variant ...(see attached file)
- 3) figure 2 : modify page 8 (varian

Paragraph:

- 1) table 1 (page 5) : remove and replace line No 3 by the table 6 of the cannon news (see attached file) page 14/14.
- 2) figure 2 (page 6, 7 , 9, 9a) : add "inactive for new design" under "Variant ...(see attached file)
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Original wording:

Proposed wording:

see 7

Justification:

Suppression of the screwlock hardwares with full hexagonal profile, having a too limited robustness :

- Hexagonal interface with the connector, limiting the pressure surface to small points.
- Deep threaded hole, limiting the torque value security.


Introduction of new robust screwlock hardwares with hexagonal profile and cylindrical base concept :

- Cylindrical interface with the connector, distributing the pressure surface all around the hole.
- Optimization of the threaded hole depth, increasing the torque value security and allowing the introduction of :
  - a minimum torque value to guarantee the correct fixing of the connector.
  - a maximum torque value to prevent the screwlock hardwares from damage during fixing.

Homogeneous range of screwlock hardwares, based on a global design.

Increase of flexibility for the user : Due to the standardization of the components, the harness and panel sub-assemblies can be supplied separately.

Moreover, this DCR covers DCR 173, by implementing modification asked by P. Schumacher (TESAT).

Attachments:
DCR_MDM_Screwlock.doc, null
Modifications:
<p>Amend item 1, 2, 3 as follows:</p> <p>1) table 1 (page 5) : Amend Torque Value to refer to "See FIGURE 2" (instead of actual values for Female Screw &amp; Male Screw). Torque values are amended per original DCR attachment (including both min and max limits).</p> <p>2) figure 2 (page 6, 7, 9, 9A) : delete obsolete variants 01, 02, 05, 06</p> <p>3) figure 2 (page 8) : amend weight for Variant 03 &amp; 04 to be 0.42g for Var 03 &amp; 0.45g for Var 04 (was 0.4g for both)</p> <p>Item 4) is accepted but summarised as follows:</p> <p>4) figure 2 : Add new Variants 07, 08, 09, 10, 11 including weight and Torque values per original DCR attachment</p> <p>Note:</p> <p>Variant 07 plus 08 is equivalent to &amp; together in effect replace Variant 01</p> <p>Variant 07 plus 09 is equivalent to &amp; together in effect replace Variant 02</p> <p>Variant 10 is equivalent to &amp; in effect replaces Variant 05</p> <p>Variant 11 is equivalent to &amp; in effect replaces Variant 06</p>
Approval signature:

Date signed:
2005-05-24