DOCUMENT CHANGE REQUEST

DCR number 768	Changes required for: Qualification	Originator: Steve Jeffery
Date: 2013/03/05	Date sent: 2012/10/22	Organisation: ESCC Executive
Status: IMPLEMENTED		

Title:	Fast-Locking Screw Lock Assemblies For Rectangular Connectors 3401/001, 3401/002 and		
Number:	3401/085	Issue:	1

Other documents affected:

Page:

Pages 6 to 20 inclusive.

Paragraph:

Numerous Tables, Figures and Paragraphs on the pages given above.

Original wording:

See 3401/085 Issue 1.

Proposed wording:

Various technical (see below), editorial and formatting changes are proposed to be made to the content of 3401/085 Issue 1 as shown in the attachment (3401/085 Draft 2B). Note that this DCR has been raised to correct, and also augment, changes originally proposed in DCR 705: DCR 705 is therefore replaced by this DCR.

The proposed technical changes are:
1) The former Mated Lock Conductivity test (see Para. 4.6.1.1) is deleted from Para. 4.2.2 deviations from Generic Specification because the test relies upon the use of a pin contact per 3401/005.
2) Inclusion of a Plating Thickness test requirement in Chart IV (Group I) per Para. 4.2.4 and Chart V (LAT Level 1) per Para. 4.2.5.
3) Removal of Locking and Unlocking Forces test requirements from Chart IV (Groups I, II & III) per Para. 4.2.4 and Chart V (LAT Levels 1 & 2) per Para. 4.2.5.
4) Inclusion of a Joint Strength test requirement in Chart IV (Group II) per Para. 4.2.4.
5) Addition of a test reference for "Maximum Torque Application test" in Chart IV per Para. 4.2.4.
6) LAT Level 1 testing is now applicable to 10 Fast-Locking Screw Lock Assemblies in addition to Mated Connector Sets) (originally was only applicable to LAT Level 2).
7) Para. 4.3.4, Locking and Unlocking Forces: recording of the results is now required for Qualification and Final Production Tests.
8) Para. 4.3.7, Clip Retention Inside Bushing, is now also applicable to Saver and Hybrid Saver Variants.
9) Para. 4.3.7, Clip Retention Inside Bushing: the applicable force which shall be withstood is now 150N (was 20N).
10) Wiring (per ESCC 3401 Para. 9.10) is added to Table 6 (as No. 1).
11) Table 6: Addition of "Coupling Nuts Unlocking Torque (if applicable)" as an Initial and Final Measurement of the Vibration Test.
12) Table 6, Endurance: Mated Lock Conductivity is replaced by Low Level Contact Resistance during Initial Measurements and by Low Level Contact Resistance Drift during Final Measurements.

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13) Table 6, High Temperature Storage: Mated Lock Conductivity is deleted from Initial and Final Measurements.
14) Removal of Locking and Unlocking Forces (No. 09) from Table 6.
15) Joint Strength (per ESCC 3401 Para. 9.15) is added to Table 6 (as No. 09).
16) Fast-Locking Screw Lock Retention on Shells (per Para. 4.3.6) is added to Table 6 (as No. 11).
17) Maximum Torque Application (per Para. 4.3.3) is added to Table 6 (as No. 13).
18) Clip Retention Inside Bushing (per Para. 4.3.7) is added to Table 6 (as No. 14).

Justification:

The changes proposed are intended to correct technical errors, improve the format, clarity and readability of the specification, avoid confusion (naming convention) between specific testing and generic testing, and to reflect the manufacturer's existing ESCC-approved procedures and processes / testing programmes.

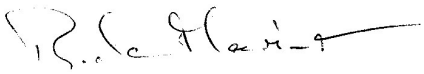
Attachments:

3401085_draft_2b.pdf, null

Modifications:

N/A

Approval signature:



Date signed:

2013-03-05