


|  | | APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL | | | Page 1 |
|---|---------------|--|---|---|-------------------|
| | | Component Title: CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG Executive Member: CNES Date: 09/12/2020 | | | Appl. No. 301E |
| Components (including series and families) submitted for Extension of Qualification Approval: | | | | | 1 |
| ESCC COMPONENT NO. | VARIANTS | RANGE OF COMPONENTS | BASED ON | TEST VEHICLE / S | COMPONENT SIMILAR |
| 3401/081 | 1 & 2 | Shells, variant 01 (glass-fibre reinforced thermoplastic), variant 02 (aluminium alloy). Gold Plated Shells. Contacts arrangements 7, 13, 25, 51, 104 contacts. | 8MCG | 3401 081 01B F25PNMB 3401 081 01B FG25SNMB | |
| 3401/082 | 1 & 2 | Contacts terminations OL3 (straight PCB), 1AxN (90° PCB 2.54mm spacing), 1BxN (90° PCB 2.84mm spacing). | | 3401 082 01B J104PNMB 3401 082 01B J104SNMB 3401 082 02B F25P 3401 082 02B F25S | |
| 3401/083 | 1 to 4 | Contact crimp barrel 24, 26. Accepts wires AWG 24, 26, 28 | | 3401 082 01B H51PNMB | |
| 3401/084 | 1 to 62 | Operating Temperature Range (°C): -55 to +125 | | 3401 082 01B H51SNMB | |
| 3401/088 | 1 & 2 | Shells, variant 01 (glass-fibre reinforced thermoplastic), variant 02 (aluminium alloy). Gold Plated Shells. Contacts arrangements 7, 13, 25, 51, 104 contacts. | | See box 9 | |
| Component Manufacturer SOURIAU | | Location of Manufacturing Plant(s) 3 Rue du Vallon 94440 Marolles en Brie, France | | Date of original qualification approval: Date: 01/06/2010 Certificate Ref No. 301 | |
| ESCC Specifications used for Maintenance of qualification testing: Generic: 3401 Issue: 5 Detail(s): 3401/81 Issue: 6 3401/82 Issue: 8 3401/83 Issue: 4 3401/84 Issue: 4 | | Deviations to LVT testing and Detail Specification used: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (supply details in Box 15) Deviation from current Specifications: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> (Supply details) | | Qualification Extension Report reference and date: PV8985-19-101 Issue A 27/08/20 | |
| Summary of procurement or equivalent test results during current validity period in support of this application (those to ESCC listed first) | | | | | |
| Project Name | Testing Level | LAT | Date code | Quantity Delivered | |
| See Synthèse Historique Ventes | | | | | |
| Micro-comp in appendix | | | | | |
| PID changes since start of qualification None <input type="checkbox"/> Minor* <input checked="" type="checkbox"/> Major* <input type="checkbox"/> *Provide details in box: | | | Current PID Verified by: <u>CNES: Nouals François</u> Name of Executive Representative Ref No: BE-PG-03/08 Issue: G Date: 24/11/2020 Rev Date: 17/02/2020 | | |
| Current Manufacturing facilities surveyed by: <u>CNES: F NOUALS</u> on <u>23/07/2018</u> (Name of Executive Representative) (Date) Satisfactory: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Explain Report Reference: <u>CRIM_1027778_23 mai 2018</u> | | | | | |



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG
Executive Member: CNES Date: 09/12/2020

Page 2

Appl. No.

301E rev1

12

Failure Analysis, DPA, NCCS available: Yes No (Supply data)

Ref. No's and purposes:

13

The undersigned hereby certifies on behalf of the ESCC Executive - that the above information is correct; - that the appropriate documentation has been evaluated; - that full compliance to all ESCC requirements is evidence (except as stated in box 15;) - that the reports and data are available at the ESCC Executive and therefore applies on behalf of CNES as the responsible Executive Member for ESCC qualification status to be extended to the component(s) listed herein.

Date: 11/12/2020


JP. BUSSENOT

(Signature of the Executive Coordinator)

14

Continuation of Boxes above:

New variant 3401/088 were tested in 2018 but the detail Specification was not created at this time: regularisation



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CONNECTORS, ELECTRICAL, RECTANGULAR,
MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE
26, PCB PIN CONTACT, BASED ON TYPE 8MCG
Executive Member: CNES Date: 09/12/2020

Page 3

Appl. No.

301E rev1

Non compliance to ESCC requirements:

15

| No.: | Specification | Paragraph | Non compliance |
|------|---------------|-----------|----------------|
| | | | |

Additional tasks required to achieve full compliance for ESCC qualification or rationale for acceptability of noncompliance:

16

Executive Manager Disposition

17

Application Approval: Yes No

Action / Remarks:

Date:

 Digitally signed
by Britta Schade
Date: 2020.12.18
14:36:30 +01'00'

B. Schade: Head of the Product Assurance and
Safety Department



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component Title: CONNECTORS, ELECTRICAL, RECTANGULAR, MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE 26, PCB PIN CONTACT, BASED ON TYPE 8MCG

Executive Member: CNES

Date: 09/12/2020

Page 4

Appl. No.

301E rev1

ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

18

Tests conducted in compliance with:

- ESCC 3401 generic specification; Chart V (for ESCC/QPL parts);
- Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

| Références | Type | Brochage | Répartition | | Accessoires | Raccord |
|------------------------------------|---------------|--------------------|--------------------|--------------------|--------------|------------|
| | | | LAT 1 | LAT 2 | Vérrouilleur | |
| 340108101B F25PNMB1AON | picots 90° | 25 points #26 | 1 couple Repéré | 1 couple Repéré | 340108403B | // |
| 340108201B F25SNMB | à sertir | | 1.1 | 2.1 | // | 340108414B |
| 340108101B H51PNMB1A7N | picots 90° | 51 points #26 | 1 couple Repéré | 1 couple Repéré | // | // |
| 340108201B H51SNMB | à sertir | | 1.2 | 2.2 | // | 340108455B |
| 340108801BF25PSNMB | SAVERS | 25 points #26 | 1 couple Repéré | 1 couple Repéré | 340108495B | // |
| 340108801BC13PSNMB | SAVERS | 13 points #26 | 1 couple Repéré | 1 couple Repéré | 340108495B | // |
| 3401082 01B A7PNMB | à sertir | 7 points #26 | 1 couple Repéré | 1 couple Repéré | // | 340108409B |
| 3401082 01B A7SNMB | à sertir | 7 points #26 | 1.3 | 2.3 | // | 340108416B |
| 3401081 01B C13PNMBOL3 | à picots | 13 points # 26 | 1 couple Repéré | 1 couple Repéré | 340108403B | |
| 3401082 01B C13SNMB | à sertir | | 1.4 | 2.4 | // | 340108439B |
| 3401082 02B JG104P | à sertir | 104 points # 26 | 1 couple Repéré | 1 couple Repéré | 340108494B | // |
| 3401082 02B JG104S | | 104 points # 26 | 1.5 | 2.5 | 340108404B | // |
| 3401082 02BEC13P - 8MCAGWC13PL | à sertir | 13 points# 26 | 1 couple Repéré | 1 couple Repéré | | |
| 3401082 02BEC13S - 8MCAGWC13SL | | | 1.6 | 2.6 | | |
| 3401082 02B EH51P - 8MCAGWH51PL | à sertir | 51 points #26 | 1 couple Repéré | 1 couple Repéré | | |
| 3401082 02B EH51S - 8MCAGWH51SL | | | 1.7 | 2.7 | | |

| Références | Désignation | quantité |
|--------------|-----------------------------|----------|
| 3401 083 02B | Contact Douille Fût # 26-28 | 10 |
| 3401 083 04B | Contact Douille Fût # 24-26 | 10 |

Les connecteurs 3401 082 02B J104* sont équipés de 50% de contacts à fût #26/28 (standard) et 50% de contacts à fût #24/26

Detail Specification reference: [REDACTED]

| Chart V | Test | Tick when done | Conditions | Date Code | Tested Qty | No. of Rejects | Comments if not performed. Comments on Rejection |
|---------------------------------------|-----------------------------|-------------------------------------|-----------------------------|-----------|------------|----------------|--|
| Environmental and Mechanical Subgroup | Wiring | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.10 | 1932 | 4 | 0 | |
| | Climatic Sequence | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.13 | 1932 | 4 | 0 | |
| | Permanence of Marking | <input checked="" type="checkbox"/> | ESCC 24800 | 1932 | 4 | 0 | |
| | Corrosion | <input checked="" type="checkbox"/> | IEC Publication No. 68-2-11 | 1932 | 4 | 0 | |
| | Seal Test | <input type="checkbox"/> | ESCC 3401 Para. 9.9 | | | | NA |
| | Plating Thickness | <input checked="" type="checkbox"/> | ESCC 3401 Para. 5.2.3 | 1932 | 4 | 0 | |
| Endurance Subgroups | Wiring | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.10 | 1932 | 4 | 0 | |
| | Rapid change of Temperature | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.16 | 1932 | 4 | 0 | |
| | Contact Retention | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.17 | 1932 | 4 | 0 | |
| | Maintenance Ageing | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.27 | 1932 | 4 | 0 | |
| | Endurance | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.18 | 1932 | 4 | 0 | |
| | Seal Test | <input type="checkbox"/> | ESCC 3401 Para. 9.9 | | | | NA |
| | Joint Strength | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.15 | 1932 | 4 | 0 | |
| | Engage/Separ. Forces | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.28 | 1932 | 4 | 0 | |
| | Oversize Pin Exclusion | <input checked="" type="checkbox"/> | ESCC 3401 Para. 9.29 | 1932 | 4 | 0 | |
| | Probe Damage | <input checked="" type="checkbox"/> | IEC Publication No. 512-8 | 1932 | 4 | 0 | |
| Additional Tests | | <input type="checkbox"/> | | | | | |
| | | <input type="checkbox"/> | | | | | |
| | | <input type="checkbox"/> | | | | | |



APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: CONNECTORS, ELECTRICAL, RECTANGULAR,
MICROMINIATURE, REMOVABLE AND NON REMOVABLE, GAUGE
26, PCB PIN CONTACT, BASED ON TYPE 8MCG
Executive Member: CNES Date: 09/12/2020

Page 6

Appl. No.

301E rev1

NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

ENTRIES

- Form heading shall indicate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member; - the entering date; - the certificate number and its sequential suffix.
- Box 1** shall provide details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components (the ESCC code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in the detail specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of identifying the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
- Box 2; 3 and 4** As per QPL entry; otherwise, an explanation of the changes must be supplied.
- Box 5** Will show the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests reported were performed. If the specifications are different from those current on the date of the application, see Box 6.
- Box 6** Will show the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of deviations this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision indicate also whether the test data deviates or not from such current documents.
- Box 7** Must reference the report(s) supplied in support of the application.
- Box 8** Should provide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered to the ESCC Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
- Box 9** If the PID evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall be provided together with the reasons for the changes. Major changes shall be clearly marked.
- Box 10** Identify the current PID issue status, date and actual date of verification. The date of verification of the current PID should be arranged as close as possible to the required date of extension.
- Box 11** This box can be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the practices, procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried out in accordance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
- Box 12** Provide details of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any Nonconformance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced satisfactory results.
- Box 13** Enter only the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive Coordinator.
- Box 14** To be used when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in the relevant Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
- Box 15** Fill in Table as requested.
- Box 16** Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
- Box 17** All Executive Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML entry, letters to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
- Box 18** Fill in Table as requested.
- Box 19** Confidential Details of PID changes including those of a confidential nature, shall be provided.
- Box 20** State noncompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance shall be sequentially numbered. If relevant state 'None'.
- Box 21** Any additional action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted by the ESCC Executive should be listed herein or the reason(s) to accept the noncompliance.
- Box 22** Additional Comments.