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CONNECTING PIECES, ELECTRICAL, FOR WIRES WITH STANDARD DENSITY REMOVABLE CRIMP CONTACTS

BASED ON TYPE SPACE SPLICE

ESCC Detail Specification No. 3401/097

| | |
|---------|------------|
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| DCR No. | CHANGE DESCRIPTION |
|----------------------|--|
| 1711 | Specification upissued to incorporate changes per DCR. |

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1 GENERAL

1.1 SCOPE

This specification details the ratings, physical and electrical characteristics, test and inspection data for Connecting Pieces, Electrical, for Wires with Standard (Gauge 20) Density Removable Crimp Contacts, based on Type Space Splice.

It shall be read in conjunction with:

- ESCC Generic Specification No. [3401](#), Connecting pieces, Electrical, Non-Filtered, Circular and Rectangular.
- ESCC Detail Specification No. [3401/005](#), Contacts, Electrical, Crimp, for [3401/002](#) Connectors and 3401/097 Connecting Pieces.

the requirements of which are supplemented herein.

1.2 COMPONENT TYPE VARIANTS

The available Component Type Variants are detailed in Table 1(a).

1.2.1 Manufacturer Specific Connecting Piece Design Drawing

Applicable to Variants 02 and 03 only; see Table 1(a).

A Manufacturer Specific Connecting Piece Design Drawing shall be produced by the Manufacturer after negotiation with the Orderer and shall be held under configuration control by the Manufacturer who will allocate a unique Manufacturer Specific Connecting Piece Identification when a request for a connecting piece is received.

Each Manufacturer Specific Connecting Piece Design Drawing shall include the following information:

- (a) The outline, dimensions, marking information and all interfaces of the connecting piece (see Figures 2(b) and 2(c) for examples).
- (b) The ESCC Component Number for the connecting piece, including the Manufacturer Specific Connecting Piece Identification, as defined in Para. 4.5.2(b).

1.3 MAXIMUM RATINGS

The maximum ratings, which shall not be exceeded at any time during use or storage, applicable to the connecting pieces specified herein, are scheduled in Table 1(b).

1.4 PARAMETER DERATING INFORMATION

The applicable derating information for the connecting pieces specified herein is shown in Figure 1.

1.5 PHYSICAL DIMENSIONS

The physical dimensions of the connecting pieces specified herein are shown in Figure 2.

2 **APPLICABLE DOCUMENTS**

The following documents form part of this specification and shall be read in conjunction with it:

- (a) ESCC Generic Specification No. [3401](#) for Connecting pieces, Electrical, Non-Filtered, Circular and Rectangular.
- (b) ESCC Detail Specification No. [3401/005](#), Contacts, Electrical, Crimp, for [3401/002](#) Connectors and 3401/097 Connecting Pieces.
- (c) [MIL-DTL-24308](#), Rack and Panel Connectors, Miniature.

3 **TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS**

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic Specification No. [21300](#) shall apply.

TABLE 1(a) – COMPONENT TYPE VARIANTS

| Variant Number | Description | Number of Rows | Mounting Type | Max. Weight (g) (Note 5) |
|----------------|--|----------------|--|--------------------------|
| 01 | A 1-way connecting piece for use with standard density (Gauge 20) crimp contacts. See Notes 1, 2 | N/A | N/A | 0.2 |
| 02 | Customisable multi-way connecting pieces for use with standard density (Gauge 20) crimp contacts. See Notes 1, 3 | 1 | Axial Radial No Mounting Holes (see Para. 4.5.2.1(b)) | Note 6 |
| 03 | Customisable multi-way connecting pieces for use with standard density (Gauge 20) crimp contacts. See Notes 1, 4 | 2 | Axial Radial No Mounting Holes (see Para. 4.5.2.1(b)) | Note 6 |

NOTES:

1. The following contacts in accordance with the ESCC Detail Specification No. [3401/005](#) may be used:
 - Pin contact: [340100501B](#), [340100503B](#), [340100511B](#) and/or [340100513B](#)
 - Socket contact: [340100502B](#), [340100504B](#), [340100512B](#) and/or [340100514B](#)
2. Variant 01 is used to connect standard density crimp contacts (1 Pin contact and 1 Socket contact). See Figure 2(a) and Figure 3.
3. Variant 02 (see Figure 2(b) and Figure 3) is customisable as follows:
 - Number of ways: 4 to 20, inclusive.
4. Variant 03 (see Figure 2(c) and Figure 3) is customisable as follows:
 - Number of ways: all odd numbers from 9 to 39.
5. Max. weight of connecting pieces (without contacts). See ESCC Detail Specification No. [3401/005](#) for contact weights.
6. As specified in the Manufacturer Specific Connecting Piece Design Drawing.

TABLE 1(b) – MAXIMUM RATINGS

| No. | Characteristics | Symbol | Maximum Rating | | Unit |
|-----|--------------------------------|-----------|----------------|------|------|
| | | | Min | Max | |
| 1 | Working Voltage (Sea Level) | U_R | - | 300 | Vrms |
| 2 | Operating Temperature Range | T_{op} | -55 | +125 | °C |
| 3 | Storage Temperature Range | T_{stg} | -65 | +125 | °C |

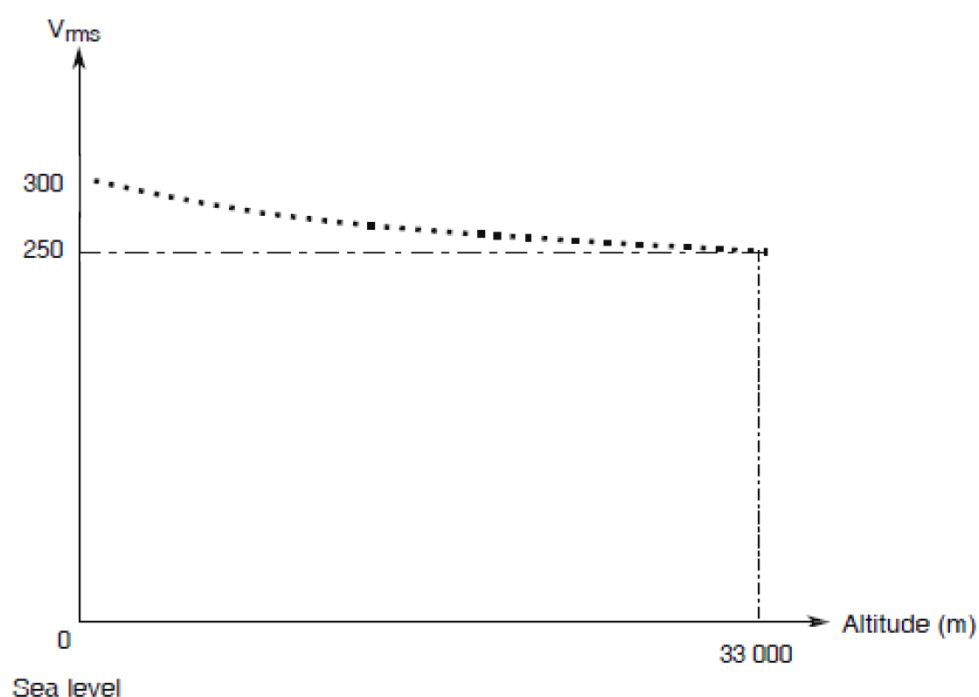
FIGURE 1 - PARAMETER DERATING INFORMATION

Working Voltage versus Altitude

FIGURE 2 – PHYSICAL DIMENSIONS AND CONTACT IDENTIFICATION

FIGURE 2(a) – VARIANT 01 (1-WAY CONNECTING PIECE) (NOTES 1, 2)

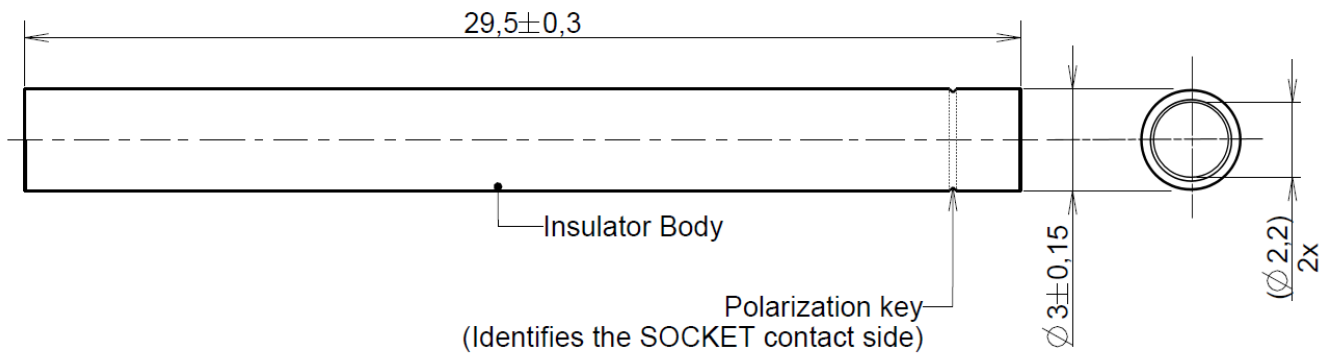
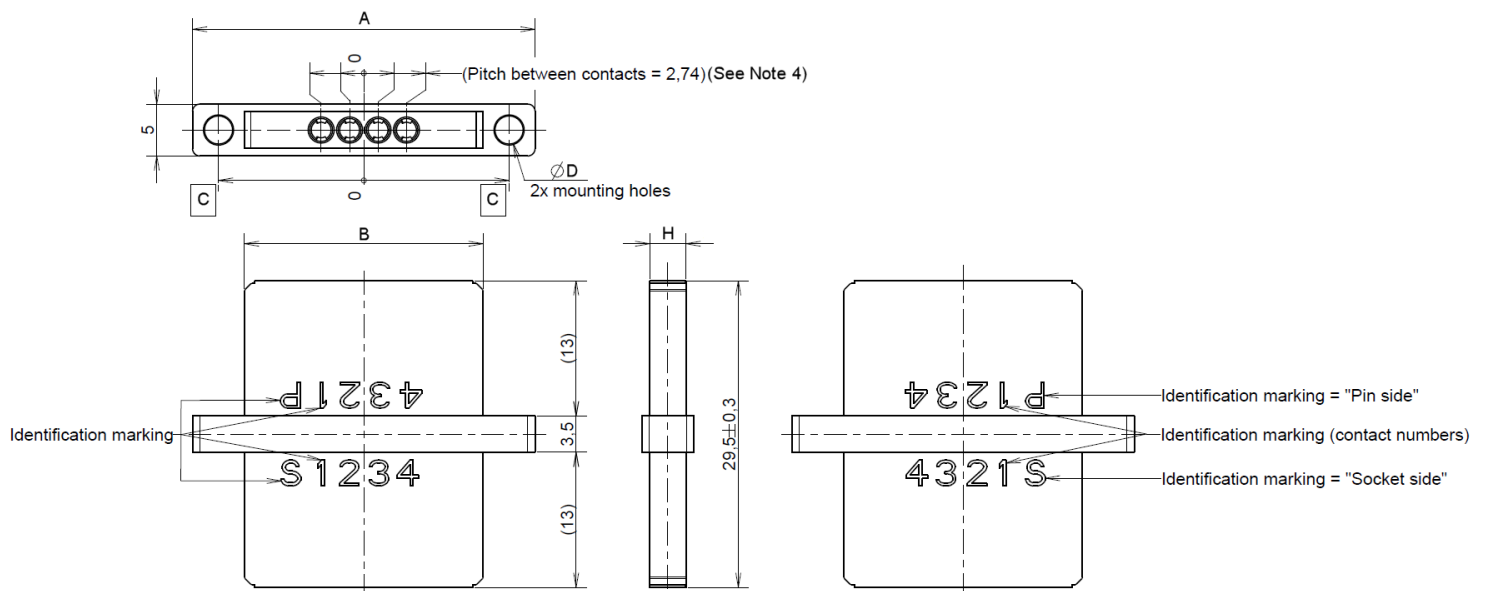


FIGURE 2(b) – VARIANT 02 EXAMPLES (NOTES 1, 2, 3)

EXAMPLE 1: 1-ROW, 4-WAY CONNECTING PIECE, AXIAL MOUNTING



EXAMPLE 2: 1-ROW, 20-WAY CONNECTING PIECE, RADIAL MOUNTING

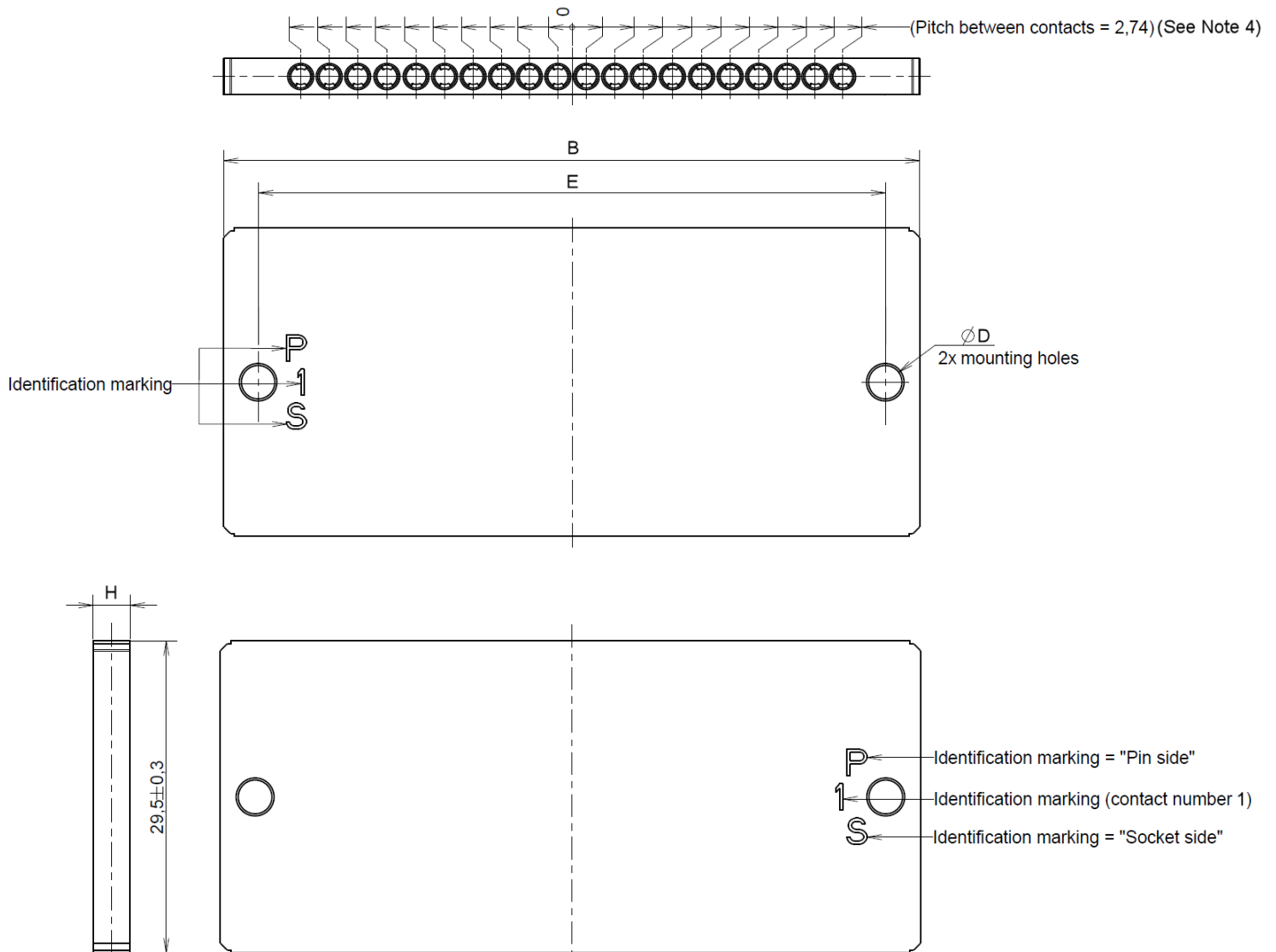
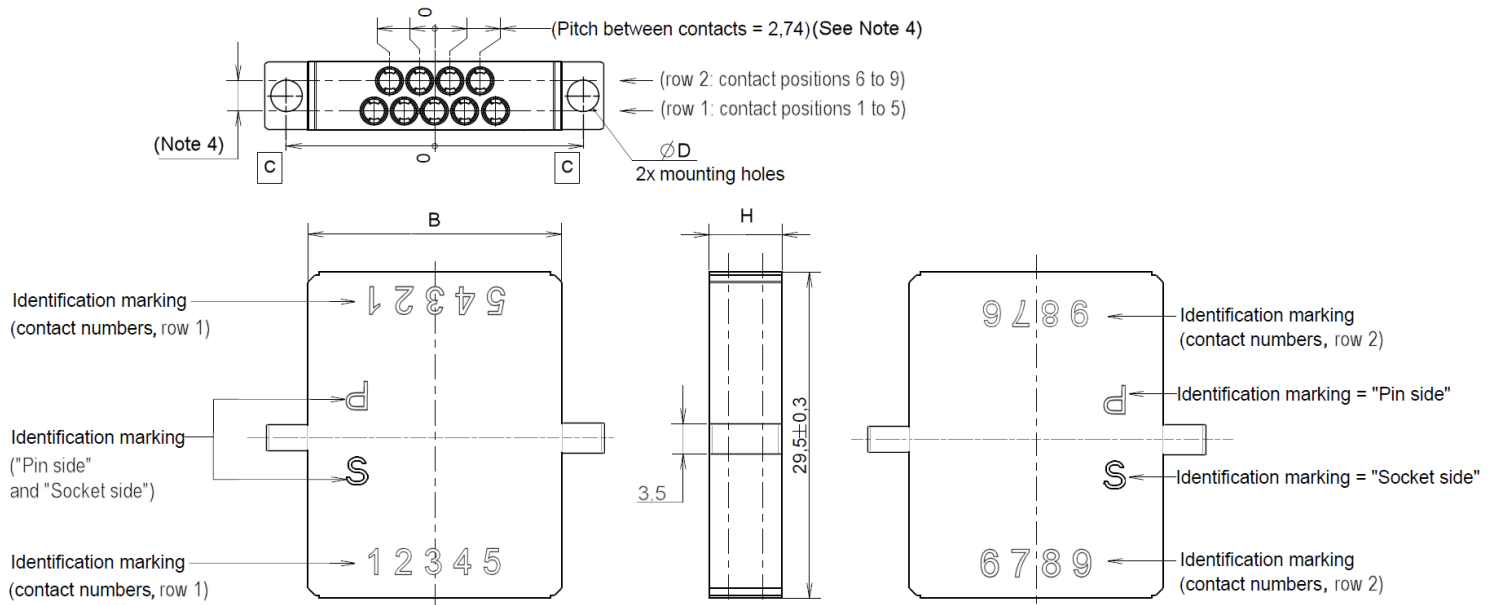
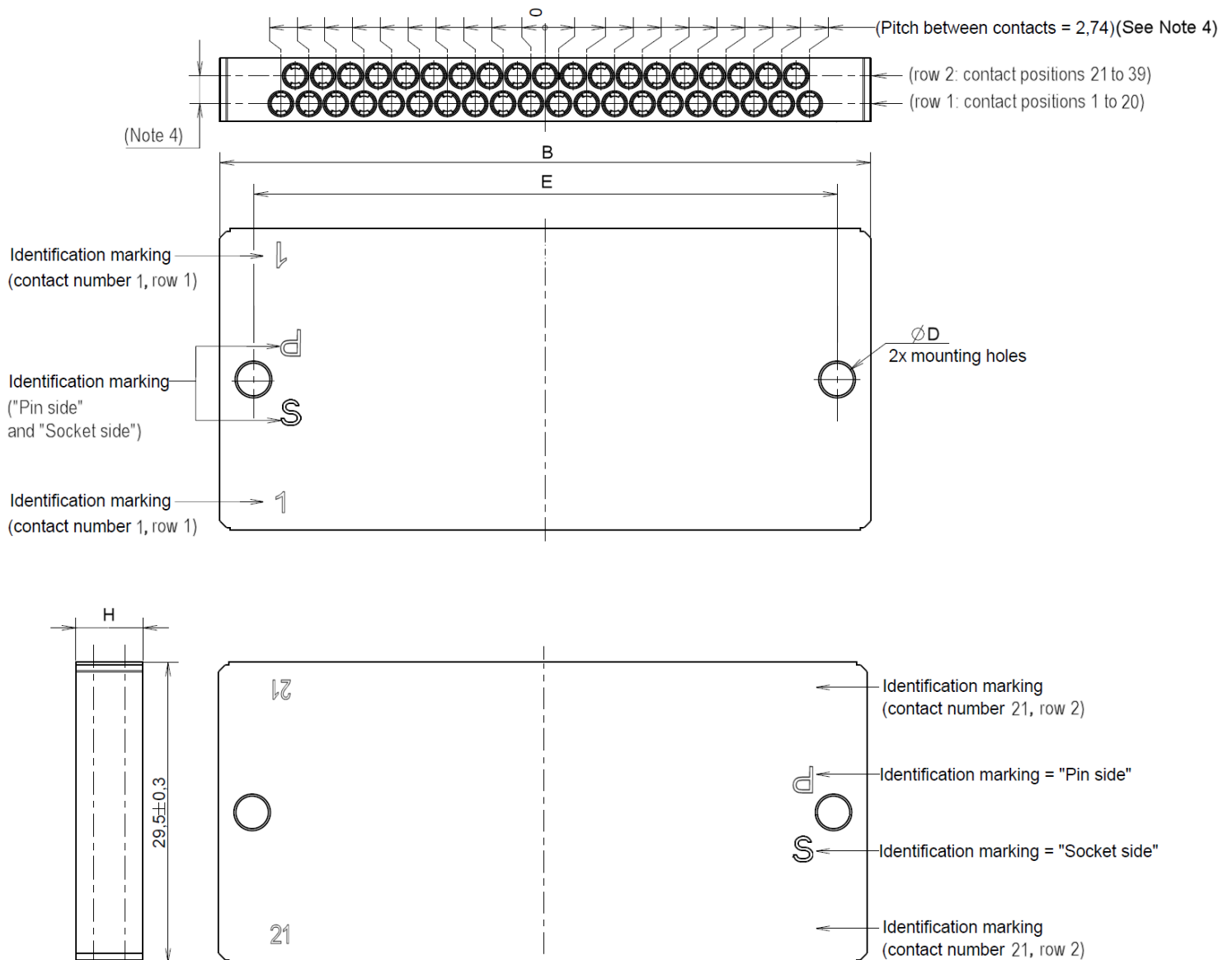


FIGURE 2(c) – VARIANT 03 EXAMPLES (NOTES 1, 2, 3)

EXAMPLE 1: 2-ROW, 9-WAY CONNECTING PIECE, AXIAL MOUNTING

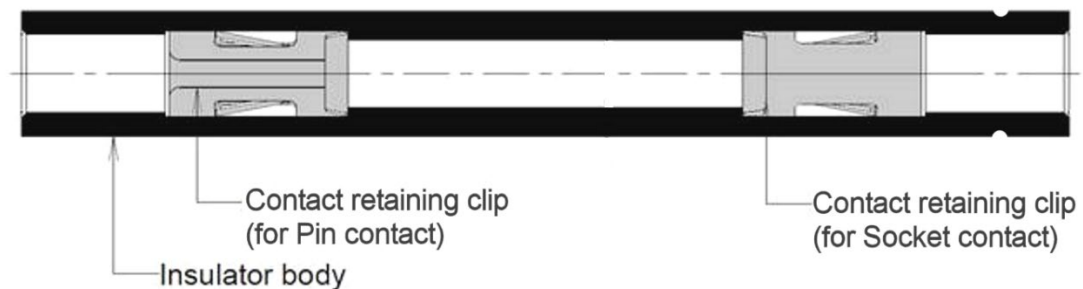


EXAMPLE 2: 2-ROW, 39-WAY CONNECTING PIECE, RADIAL MOUNTING



NOTES TO FIGURE 2:

- All dimensions are in millimetres.
- Contact identification:
 - For Variant 01, the socket contact side shall be identified by means of a polarization key as shown.
 - For Variants 02 and 03, the contact locations shall be as specified in the Manufacturer Specific Connecting Piece Design Drawing. See the examples shown in Figures 2(b) and 2(c).
- Per Para. 1.2.1, the physical configuration and dimensions shall be specified in the Manufacturer Specific Connecting Piece Design Drawing.
- For Variants 02 and 03, the contact and row spacing are based on the requirements of [MIL-DTL-24308](#).
- The interface dimensions for all Variant 02 and 03 contacts are the same as for Variant 01.

FIGURE 3 – CONNECTING PIECE INTERNAL VIEWVariant 01 shown for illustrative purposes

4 REQUIREMENTS

4.1 GENERAL

The complete requirements for procurement of the connecting pieces specified herein are stated in this specification and ESCC Generic Specification No. [3401](#). Deviations from the Generic Specification, applicable to this specification only, are listed in Para. 4.2.

Deviations from the applicable Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirements and do not affect the components' reliability, are listed in the appendices attached to this specification.

4.2 DEVIATIONS FROM GENERIC SPECIFICATION

4.2.1 Deviations from Special In-process Controls

None.

4.2.2 Deviations from Final Production Tests - Chart II(a)

- (a) Para. 9.2, Mating Verification: Not applicable.
- (b) Para. 9.5, Magnetism Level: Not applicable.

4.2.3 Deviations from Qualification Tests - Chart IV

- (a) Para. 9.22, Corrosion: Not applicable.

4.2.4 Deviations from Lot Acceptance Tests - Chart V

- (a) Para. 9.22, Corrosion: Not applicable.

4.3 MECHANICAL REQUIREMENTS

4.3.1 Dimension Check

The dimensions of the connecting pieces specified herein shall be verified in accordance with the requirements set out in Para. 9.6 of ESCC Generic Specification [3401](#) and shall conform to those shown in either Figure 2 of this specification or the applicable Manufacturer Specific Connecting Piece Design Drawing.

4.3.2 Weight

The maximum weight of the connecting pieces specified herein, without contacts, shall be as specified in Table 1(a).

4.3.3 Contact Retention

The applicable contact retention forces are specified in ESCC Detail Specification No. [3401/005](#).

4.3.4 Contact Insertion and Withdrawal Forces

Either 18.5N maximum or 21.8N maximum, where:

18.5N applies to the first contact to be inserted and the second contact to be withdrawn
and

21.8N applies to the second contact to be inserted and the first contact to be withdrawn.

4.4 MATERIALS AND FINISHES

The materials and finishes shall be as specified herein. Where a definite material is not specified, a material which will enable the connecting pieces specified herein to meet the performance requirements of this specification shall be used. Acceptance or approval of any constituent material does not guarantee acceptance of the finished product.

4.4.1 Body

The body shall be made of:

- For Variant 01: PEEK.
- For Variants 02 and 03: PEEK, bonded with epoxy resin.

4.4.2 Contact Retaining Clips

The contact retaining clips shall be made of beryllium copper.

4.5 MARKING

4.5.1 General

The marking shall be in accordance with the requirements of ESCC Basic Specification No. [21700](#) and as follows.

The information to be marked on the component or its primary package shall be:

- (a) The ESCC qualified components symbol (for ESCC qualified components only).
- (b) Contact Identification (for Variants 02 and 03 only) (see Figures 2(b) and 2(c)).
- (c) The ESCC Component Number.
- (d) Traceability Information.

4.5.2 The ESCC Component Number

Each component shall bear the ESCC Component Number which shall be constituted and marked as follows:

(a) For Variant 01:

340109701B, where:

- Detail Specification Reference: 3401097
- Component Type Variant Number (see Table 1(a)): 01
- ESCC 3401 Testing level: B

(b) For Variants 02 and 03:

Example: 340109702B04RA1234, where:

- Detail Specification Reference: 3401097
- Component Type Variant Number (see Table 1(a)): 02 (as required)
- ESCC 3401 Testing level: B
- Characteristic Code: Number of Ways: 04 (as required)
- Characteristic Code: Mounting Type (Radial): R (as required)
- Manufacturer Specific Connecting Piece Identification: A1234 (as applicable) where:
 - A: Unique code letter representing the applicable Manufacturer.
 - 1234: A unique 4-digit number, allocated by the applicable Manufacturer to a specific connecting piece design (see Para. 1.2.1).

4.5.2.1 *Characteristics Codes*

For Variants 02 and 03 only, characteristics to be codified as part of the ESCC Component Number shall be as follows:

(a) Number of Ways expressed by means of the following codes (see Table 1(a)):

| Variant Number | Number of Ways | Codes |
|----------------|----------------|----------|
| 02 | 4 to 20 | 04 to 20 |
| 03 | 9 to 39 | 09 to 39 |

(b) Mounting Type expressed by means of the following codes (see Figures 2(b) and 2(c)):

| Mounting Type | Code Letter |
|-------------------|-------------|
| Axial | A |
| Radial | R |
| No mounting holes | N |

4.5.3 Traceability Information

Traceability information shall be marked in accordance with the requirements of ESCC Basic Specification No. 21700.

4.6 ELECTRICAL MEASUREMENTS

4.6.1 Electrical Measurements at Room Temperature

The parameters to be measured in respect of electrical characteristics are scheduled in Table 2.

Unless otherwise specified, these measurements shall be performed at $T_{amb} = +22 \pm 3^{\circ}\text{C}$.

4.7 ENVIRONMENTAL AND ENDURANCE TESTS

4.7.1 Measurements and Inspections on Completion of Environmental Tests

The parameters to be measured and inspections to be performed on completion of environmental testing shall be those specified in Table 6. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +22 \pm 3^{\circ}\text{C}$.

4.7.2 Measurements and Inspections on Completion of Endurance Tests

The parameters to be measured and inspections to be performed on completion of endurance tests shall be those specified in Table 6. Unless otherwise specified, the measurements shall be performed at $T_{amb} = +22 \pm 3^{\circ}\text{C}$.

TABLE 2 – ELECTRICAL MEASUREMENTS AT ROOM TEMPERATURE

| No. | Characteristic | Symbol | Specification, Test Method and Conditions | Limits | | Unit |
|-----|-------------------------------|----------------|---|--------|-----|------|
| | | | | Min | Max | |
| 1 | Insulation Resistance | Ri | ESCC No. 3401 | 5000 | - | MΩ |
| 2 | Voltage Proof Leakage Current | I _L | ESCC No. 3401 1250Vrms | - | 2 | mA |

TABLE 6 – MEASUREMENTS AND INSPECTIONS ON COMPLETION OF ENVIRONMENTAL AND ENDURANCE TESTING

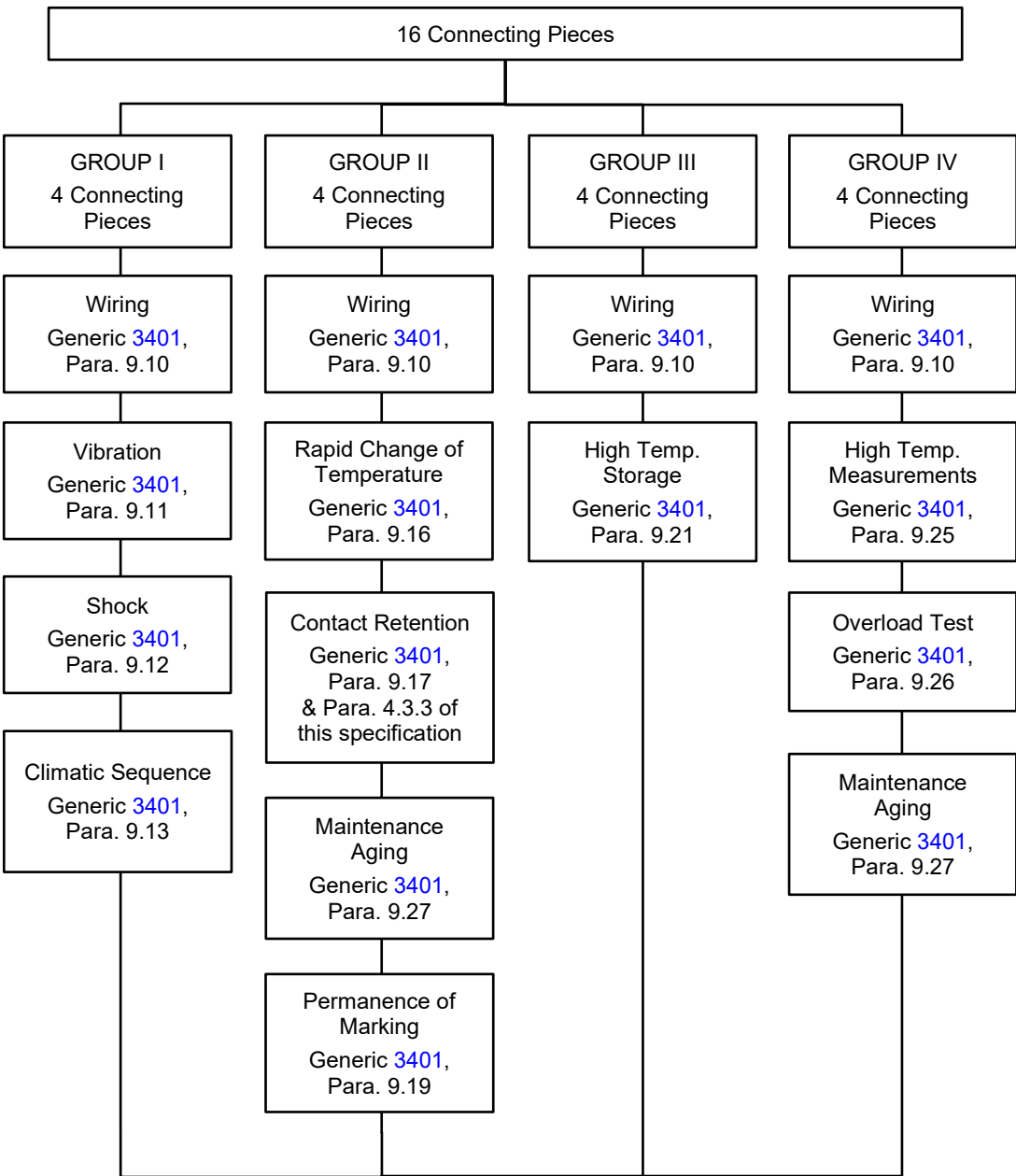
| No. | ESCC Generic Spec. No. 3401 | | Measurements and Inspections | | Symbol | Limits | | Unit |
|-----|---------------------------------------|----------------------------|--|---------------------------|--------|-------------|-----|------|
| | Environmental and Endurance Tests (1) | Test Method and Conditions | Identification | Conditions | | Min | Max | |
| 01 | Wiring | Para. 9.10 | ESCC 3401/005 | - | - | - | - | |
| 02 | Vibration | Para. 9.11 | Initial Measurements Contact insertion force | Para. 4.3.4 of this spec. | - | Para. 4.3.4 | | N |
| | | | Final Measurements Contact withdrawal force | Para. 4.3.4 of this spec. | - | Para. 4.3.4 | | N |
| | | | Visual Examination | - | - | - | - | |
| 03 | Shock or Bump | Para. 9.12 | Final Measurements Visual Examination | - | - | - | - | |

| No. | ESCC Generic Spec. No. 3401 | | Measurements and Inspections | | Symbol | Limits | | Unit |
|-----|---------------------------------------|--|---|--|----------------------|----------------------------------|------|------|
| | Environmental and Endurance Tests (1) | Test Method and Conditions | Identification | Conditions | | Min | Max | |
| 04 | Climatic Sequence | Para. 9.13 | Dry Heat Insulation Resistance | Table 2 Item 1 | Ri | 1000 | - | MΩ |
| | | | Low Air Pressure Voltage Proof Leakage Current | Figure 1 | I _L | Table 2 Item 2 | | |
| | | | Damp Heat Insulation Resistance | Immediately after test Table 2 Item 1 | Ri | 100 | - | MΩ |
| | | | After 1 - 24hrs Recovery External Visual Inspection | ESCC 3401 Para. 9.7 | - | ESCC 3401 Para. 9.7 | | |
| | | | Insulation Resistance Voltage Proof Leakage Current | Table 2 Item 1 Table 2 Item 2 | Ri I _L | Table 2 Item 1 Table 2 Item 2 | | |
| 05 | Rapid Change of Temperature | Para. 9.16 | Visual Examination | - | - | - | - | |
| | | | Insulation Resistance | Table 2 Item 1 | Ri | Table 2 Item 1 | | |
| | | | Voltage Proof Leakage Current | Table 2 Item 2 | I _L | Table 2 Item 2 | | |
| 06 | Contact Retention | Para. 9.17 & Para. 4.3.3 of this spec. | Contact Displacement | - | - | ESCC 3401/005 | | |
| 07 | Permanence of Marking | Para. 9.19 | As applicable | - | - | - | - | |
| 08 | High Temperature Storage | Para. 9.21 | Final Measurements Visual Examination | - | - | - | - | |
| | | | Insulation Resistance | Table 2 Item 1 | Ri | Table 2 Item 1 | | |
| | | | Voltage Proof Leakage Current | Table 2 Item 2 | I _L | Table 2 Item 2 | | |
| 09 | High Temperature Measurements | Para. 9.25 | Insulation Resistance | Table 2 Item 1 | Ri | 500 | - | MΩ |
| 10 | Overload Test | Para. 9.26 | Internal Temperature | - | T | - | +100 | °C |
| | | | Insulation Resistance | Table 2 Item 1 | Ri | Table 2 Item 1 | | |
| | | | Voltage Proof Leakage Current | Table 2 Item 2 | I _L | Table 2 Item 2 | | |
| 11 | Maintenance Ageing | Para. 9.27 | Visual Examination | - | - | - | - | |
| | | | Contact Insertion & Withdrawal Forces | Para. 4.3.4 of this spec. | - | Para. 4.3.4 | | |

NOTES

- The tests in this Table refer to either Chart IV or V and shall be used as applicable.

APPENDIX A
AGREED DEVIATIONS FOR C&K CONNECT (F)

| ITEMS AFFECTED | DESCRIPTION OF DEVIATIONS |
|--|--|
| Para. 4.2.2 – Deviations from Final Production Tests - Chart II(a) | Para. 9.3, Contact Retainer Test may be omitted provided that a 100% external visual inspection of the contact retainer clips positioned within the insulator body is performed in accordance with the C&K CONNECT PID requirements. |
| Para. 4.2.3 – Deviations from Qualification Tests - Chart IV | <p>Qualification testing shall be performed in accordance with the following Chart with no failures allowed:</p>  <pre> graph TD Root[16 Connecting Pieces] --> G1[GROUP I 4 Connecting Pieces] Root --> G2[GROUP II 4 Connecting Pieces] Root --> G3[GROUP III 4 Connecting Pieces] Root --> G4[GROUP IV 4 Connecting Pieces] G1 --> W1[Wiring Generic 3401, Para. 9.10] W1 --> V1[Vibration Generic 3401, Para. 9.11] V1 --> S1[Shock Generic 3401, Para. 9.12] S1 --> CS[Climatic Sequence Generic 3401, Para. 9.13] G2 --> W2[Wiring Generic 3401, Para. 9.10] W2 --> RCT[Rapid Change of Temperature Generic 3401, Para. 9.16] RCT --> CR[Contact Retention Generic 3401, Para. 9.17 & Para. 4.3.3 of this specification] CR --> MA[Maintenance Aging Generic 3401, Para. 9.27] MA --> PM[Permanence of Marking Generic 3401, Para. 9.19] G3 --> W3[Wiring Generic 3401, Para. 9.10] W3 --> HTS[High Temp. Storage Generic 3401, Para. 9.21] G4 --> W4[Wiring Generic 3401, Para. 9.10] W4 --> HTM[High Temp. Measurements Generic 3401, Para. 9.25] HTM --> OT[Overload Test Generic 3401, Para. 9.26] OT --> MA2[Maintenance Aging Generic 3401, Para. 9.27] CS --> End[No failures allowed] PM --> End HTS --> End MA2 --> End </pre> |

| ITEMS AFFECTED | DESCRIPTION OF DEVIATIONS |
|---|---|
| Para. 4.2.3 – Deviations from Qualification Tests - Chart IV (Continued) | <p>Para. 9.11, Vibration:</p> <p>Para. 9.11.1(a): Method of Mounting Connecting pieces shall be fixed on test equipment. The wires shall be clamped to a non-vibrating point which is at least 20cm away from the connecting pieces such that resonance of the wires is avoided.</p> <p>Para. 9.11.1(c): Examination after Testing Connecting pieces shall not be damaged and there shall be no loosening of parts caused by vibration.</p> |
| | <p>Para. 9.12, Shock:</p> <p>Para. 9.12.1(a): Method of Mounting Connecting pieces shall be fixed on test equipment. The wires shall be clamped to a non-vibrating point which is at least 20cm away from the connecting pieces such that resonance of the wires is avoided.</p> <p>Para. 9.12.1(c): Examination after Testing Connecting pieces shall not be damaged and there shall be no loosening of parts caused by shock.</p> |

(Agreed Deviations for C&K CONNECT (F) continues on the next page)

| ITEMS AFFECTED | DESCRIPTION OF DEVIATIONS |
|--|---|
| Para. 4.2.4 – Deviations from Lot Acceptance Tests (Chart V) | <p>Lot Acceptance Tests shall be performed in accordance with the following Chart with no failures allowed:</p> <div data-bbox="392 405 1497 1951"> <pre> graph TD L1[LEVEL 1 – 4 Connecting Pieces] --> EMS[Environmental and Mechanical Subgroup] L1 --> L2[LEVEL 2 – 2 Connecting Pieces] L1 --> L3[LEVEL 3 – None] EMS --> C2[2 Connecting Pieces] C2 --> W1[Wiring Generic 3401, Para. 9.10] W1 --> CS[Climatic Sequence Generic 3401, Para. 9.13] CS --> PM[Permanence of Marking Generic 3401, Para. 9.19] PM --> NFA1[No failures allowed] NFA1 --> L1 L2 --> ES[Endurance Subgroup] ES --> W2[Wiring Generic 3401, Para. 9.10] W2 --> RCT[Rapid Change of Temperature Generic 3401, Para. 9.16] RCT --> MA[Maintenance Aging Generic 3401, Para. 9.27] MA --> NFA2[No failures allowed] NFA2 --> L2 L3 --> L3 L1 --> L2LOT[LEVEL 2 – LOT ACCEPTANCE] L2LOT --> L1LOT[LEVEL 1 – LOT ACCEPTANCE] </pre> </div> |

| ITEMS AFFECTED | DESCRIPTION OF DEVIATIONS |
|---|--|
| Para. 9.1.1.1 of the Generic Specification: Insulation Resistance | <p>(a) Applicability: This test applies to all Variants and the test shall be performed 100%.</p> <p>(b) Procedure: The insulation resistance shall be measured between all contacts connected together and an external metallic device put around the connecting pieces.</p> <ul style="list-style-type: none">• Test voltage: 500 ±50V. <p>The measurements shall exceed the value defined in Table 2 herein.</p> <p>Dummy contacts may be used (metallic parts with overall dimensions identical to those of the contacts without retention system).</p> |
| Para. 9.1.1.2 of the Generic Specification: Voltage Proof (Sea Level) | <p>(a) Applicability: This test applies to all Variants and the test shall be performed 100%.</p> <p>(b) Procedure: The voltage proof test shall be performed between the contacts connected together and an external metallic device put around the connecting pieces.</p> <ul style="list-style-type: none">• Test voltage: as specified in Table 2 herein.• Test duration (Final Production Tests): 5 seconds minimum.• Test duration (Qualification and Lot Acceptance Testing): 1 minute minimum. <p>Dummy contacts may be used (metallic parts with overall dimensions identical to those of the contacts without retention system).</p> |