



# RL-SQC-306 Rev 5.0

## Harness Manufacturing, Testing, and Inspection Requirements

### DOCUMENT PROPERTIES

Document Type	Supplier Quality Clause (Doc Type)
Security Level	Approved for Limited External Use

### DOCUMENT APPROVAL

Author	Reviewer	Approver	Date Released	Status
j.enriquez,y.jimenezr amon	m.antoniruz	f.dupouy	30 Jul, 2024	 Released

**TABLE OF CONTENTS**

**1 Glossary ..... 3**

**2 Revision History ..... 3**

**3 Document Properties ..... 4**

**Group**

Electronics - General

<b>Clause</b>	<p>Manufacture, test, and inspect per IPC/WHMA-A-620 Class 3 and Rocket Lab specification RL-PS-023 – Harness Manufacturing Process Specification.</p> <p>All supplier assembly and inspection personnel shall be trained and certified to IPC/WHMA-A-620 for Requirements and Acceptance for Cable and Wire Harness Assemblies or at least trained by a certified J-STD-001 and IPC/WHMA-A-620 Trainer and certified to a Supplier training program.</p> <p><b>Cable/Harness Data Package</b></p> <ol style="list-style-type: none"> <li>1. Certificate of Compliance per RL-SR-001 – Supplier Quality Manual</li> <li>2. The Data Package shall comprise the following document:             <ol style="list-style-type: none"> <li>a. As Built List (ABL)                 <ol style="list-style-type: none"> <li>i. Serial Number, Lot or Date code Information for all components and materials, as applicable.</li> <li>ii. As built documentation shall clearly indicate Rocket Lab furnished material.</li> </ol> </li> <li>b. Cure records</li> <li>c. Material certificates                 <ol style="list-style-type: none"> <li>i. Material used shall be traceable to the manufacturer’s lot number through date code and/or serial number.</li> <li>ii. For components and materials furnished by Rocket Lab, the Rocket Lab packing slip is an acceptable alternative to the manufacturers or distributors material certificates.</li> </ol> </li> <li>d. List of Assembly Materials (solder, flux, potting material, fiberglass tape, lacing, heatshrink, overbraid, etc.)                 <ol style="list-style-type: none"> <li>i. Lot and expiration date records shall be kept and provided upon request of Rocket Lab</li> </ol> </li> <li>e. Assembly Documents</li> <li>f. Deviations from Drawing and parts lists and objective evidence for the approval</li> <li>g. Copies of all redlined drawings and parts lists</li> <li>h. Copies of all Non-Conformance reports if the resulting disposition was Rework, Repair, or Use As Is</li> <li>i. Rework documentation</li> <li>j. High resolution photo* documentation of all solder cup joints and connectors before potting, and end item.</li> <li>k. Test data results as specified in the drawing or additional test requirements as required by Rocket Lab.                 <ol style="list-style-type: none"> <li>i. Included but not limited to continuity, Milliohm Bonding and Hi-Pot test data results</li> </ol> </li> </ol> </li> </ol> <p><b>In-Process Inspection – If required by Rocket Lab</b></p> <ol style="list-style-type: none"> <li>1. Supplier shall provide high resolution photos*. Each high resolution photo* shall be labeled with part number, serial number, reference designator.</li> <li>2. Supplier shall provide photo(s) from these sides whenever possible: Front, Back, Left Side, Right Side.             <ol style="list-style-type: none"> <li>a. Supplier shall indicate the position of the photo(s) taken.                 <ol style="list-style-type: none"> <li>i. For example: <i>Part Number, Serial Number, Reference Designator, Right Side.</i></li> </ol> </li> </ol> </li> </ol>
---------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

- b. Supplier shall provide high resolution photos\* via FileCloud and approval must be granted by RL quality/engineering team in writing in order to proceed to the next operation.
3. Supplier shall provide high resolution photos\* for cables that have shield terminations to show evidence of no damaged strands.
4. Lay wire terminations on a flat surface and provide high resolution photos\* showing the top, bottom, left, right sides.
- a. For contacts, supplier shall certify in writing that strands are visible through the inspection window.
- b. For splices, supplier shall certify in writing that strands are visible through the inspection window, as applicable

**i** \*High Resolution Photos are generally considered to be anything that has a DPI/PPI of 300 or higher.

## 1 Glossary

### Glossary Term

No content found.

## 2 Revision History

Rev	Author	Date	Change Log / ECN
1	@Hannah Bruttig	14 Nov 2023	First Release – Baseline
2.0	@Merelin Antoni Ruiz	26 Mar 2024	Minor update – correct section 2.a.i to not include "reference designators" as this does not apply to harnesses.
3.0	@Hannah Bruttig	10 Jun 2024	Minor update – added "/or" for serial number in 2.c.i. Added milliohm bonding to test data result in 2.k.
4.0	@Yulisa Jimenez Ramon @Scott Castillo	10 Jul 2024	Minor update – updated item 2. a. ii. and added item 2. c. ii.
5.0	@Merelin Antoni Ruiz @Jose Enriquez @Yulisa Jimenez Ramon	29 Jul 2024	Major Update – added in-process inspection requirements.

### 3 Document Properties

<b>Document Type</b>	Supplier Quality Clause (Doc Type)
<b>Summary</b>	EQC detailing the requirement to: <ul style="list-style-type: none"><li>• follow RL-PS-023 – Harness Manufacturing Process Specification for the manufacture of electrical harness</li><li>• provide a data package with each harness supplied.</li></ul>
<b>References</b>	N/A
<b>Notes</b>	N/A
<b>Parent Manual</b>	RL-PM-005 – Procurement Process Manual
<b>Security Level</b>	Approved for Limited External Use
<b>Export Classification</b>	Not Subject to Regulation – No Technical Data

#### Legal Warning

© 2024 Rocket Lab Ltd. All rights reserved.

This document (including any attachments and addenda attached hereto) (“Document”) contains the confidential, proprietary, privileged and/or private information and/or trade secrets belonging to Rocket Lab Ltd. Rocket Lab Ltd. retains all title, ownership and intellectual property rights to the information and trademarks contained herein. This Document is provided to recipient on a confidential basis for evaluation purposes only, and may not be reproduced, redistributed or transmitted, in whole or in part, without the prior written consent of Rocket Lab Ltd.