Amphenol
COMMUNICATIONS SOLUTIONS

Product/Process Change Notifications

Amphenol Commercial Products

PCN - 24 075

www.amphenol-cs.com

Release Date: June 04 2024

Product Name:	HPL – 676 FLEXLOCK	
	Receptacle Connector	
Product Manager:	Jennifer Zhang	
Subject:	Notification of Planned Change	
Distribution:	Affected customers	
Type of Change:	Design Change	
Change Description:	Change the terminal contact point shape, add some curve for higer intensity of pressure	
Reason for Change:	Optimize female terminal contact point shape to meet USCAR higher Temperature level (T3) from 105℃ T2 level up to 125℃ T3 level	
Affected Parts:	See Affected parts.xls file	
Effective Date of Change:	01 August ,2024	
Last Time Buy Date:	NA	
Earliest Disty Return Date:	NA	
Last Time Shipment Date	NA	
Datasheet Attached?	NA	
Qual/Test Data Attached?	NA	
Samples Availability Date:	24 July ,2024	
Available Alternatives?		
Questions?	*Contact your local ACS Representative, or Product Manager*	
	Jennifer Zhang / Product Manager	
	Jennifer.Zhang@fci.com	

Note:
Customers should contact Product Manager (or their local ACS Representative) directly regarding any concern on the PCN.
Lack of any such customer feedback within three weeks of PCN release date will be interpreted as non-objection .

TEST REPORT 测试报告

Customer 客户名称	富加宜电子（南通）有限公司 FCI Nantong Ltd
Address 地址	江苏省通州区青岛路 990 号 No.990 Qingdao Road, TongZhou, JiangSu
Sample name 样品名称	FlexLock 30Pin R/A Header Connector/ FlexLock 30Pin V/T Receptacle Connector
Sample model 样品型号	Reflow TIN
Quantity of Sample 样品数量	10 PCS
Other description 其它	FlexLock 30Pin Connetor RA Header/ VT Recept （Group H）Testing for new type Recept Terminal

★The customer provides the above information, to which the company assumes no responsibility for the authenticity. 上述信息由客户提供，本公司对其真实性不承担任何责任。

Sample No.样品编号	1-1# ~ 1-10#
Sample Received Date 样品收样日期	Feb 19, 2024
Completion Date 测试完成日期	Feb 27, 2024
Report Issue Date 报告签发日期	Feb 27, 2024

Test Information 测试信息:

No.	Test Item 测试项目	Test Result 测试结果
1	Sample pretreatment 试样预处理	PASS 合格
2	Visual Examination 外观检查	PASS 合格
3	Durability 耐久性	PASS 合格
4	Dry Circuit resistance 干电路电阻	PASS 合格
5	Vibration/Mechanical 振动/机械冲击	PASS 合格
6	Dry Circuit resistance 干电路电阻	PASS 合格
7	Voltage drop 电压降	PASS 合格

Tested by ： Jacka Checked by： Benson Signed by： michael

SHENZHEN SCOTEK TECHNOLOGY Co., Ltd

Sample information 样品信息

GP 组别	Description 样品描述	Part #零件号	Lot# 批号	Base Mat'l 基本材料	Plating Type 镀层类型	Housing Mat'l 壳体材质
Group - 1 第一组	FlexLock 30Pin R/A Header Connector	10158557-R302111LF	NA	C2680R-H	Sn 40u" Min Underplating Ni	PA9T
	FlexLock 30Pin V/T Receptacle Connector	10161735-V302011LF	NA	C7025-TM03	Sn 40u" Min Underplating Cu(Reflow TIN)	PA9T

Test Item 测试项目 1: Sample Pretreatment 试样预处理

10.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

10.2. Test Sample(s)测试样品:

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量
(1-1#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	10 pcs

10.3. Testing Standard 测试标准:

Reference: SAE/USCAR-2 REVISION 7, 2020, 5.1.6 and QC/T 1067.1-2017, 4.1.

参考 SAE/USCAR-2 REVISION 7, 2020,5.1.6 条和 QC/T 1067.1-2017,4.1 条。

10.4. Test Condition 测试条件:

a) At all before the start of the test sample should be placed to room temperature (23±5)°C, relative humidity 45% ~ 75% of the environment for 24 h.试验开始前应将试样置于室温(23±5)、相对湿度 45% ~ 75%的环境中 24 小时。

b) Test requirements all test should be at room temperature (23±5)°C environment. All holes in the connector shall be tested.所有测试应在室温(23 + / - 5) °C 环境下进行. 连接器上的所有孔都应进行测试。

c) Each test and each test sample cannot affect each other.每个测试和每个测试样本不能相互影响。

d) It is not allowed to apply lubricant or other additives to the surface of plugs and sockets during the test. Except the lubricant left in the production process.在测试过程中，不允许在插头和插座的表面使用润滑剂或其他添加剂, 除生产过程中遗留的润滑油外。

Test Item 测试项目 2: Visual Inspection 外观检查

2.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

2.2. Test Sample(s)测试样品:

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量
(1-1#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	10 pcs

2.3. Testing Standard 测试标准:

Reference: SAE/USCAR-2 REVISION 7, 2020,5.1.8 and QC/T 1067.1-2017,4.2.

参考 SAE/USCAR-2 REVISION 7, 2020,5.1.8 条和 QC/T 1067.1-2017,4.2 条。

2.4. Test Condition 测试条件:

a) Visually inspect the test samples before the test, and record manufacturing and material defects, such as cracks, color changes, burrs, etc. Video or pictures of test samples for each group to prepare a don't do test samples, in order to compare the sample after test.试验前,目视检在试验样品,记录制造和材料缺陷,如裂缝、色变、毛刺等。对试验样品拍照录像或为每个试验组准备一个不做试验的样品,以便试验后对比试样.

b) After test, visual inspection of each tested sample and record all changes can be observed, after test samples and samples without test in step 1), comparing photos or video, and record all the difference in the test report.试验后，目视检查每个试验过的样品并记录所有能观察到的变化，将试验后的样品与上第 1)步中未经试验的样品,照片或录像进行对比,并在试验报告中记录所有的差别。

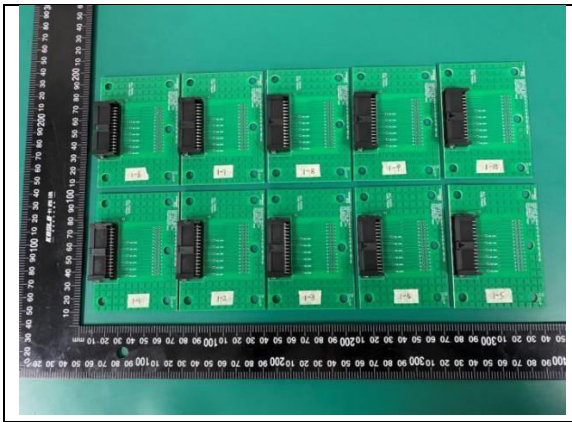
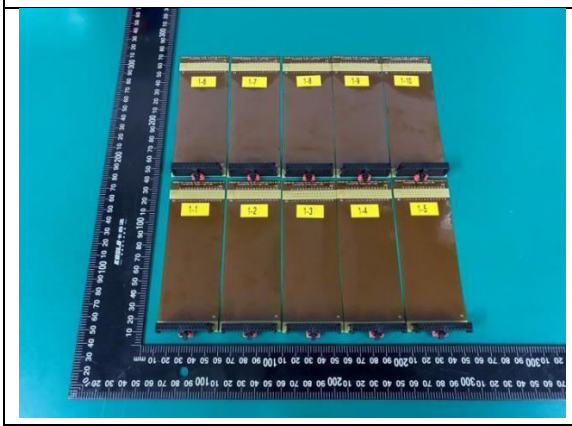
2.5. Acceptance Criteria 验收标准:

The sample shall be free from defects affecting the product functions provides to the as expansion, corrosion, Then we can predict color change, contact wear, physical deformation and deformation.样品不应出现膨胀、腐蚀、色变、触点镀层磨损、物理变形、开裂等影响产品功能的缺陷。

2.6. Test Results 测试结果:

The surface of the sample was smooth and tidy, with no visible scratches and deformation, no cracks, color changes, burrs and other phenomena.样品表面光滑、整洁，无明显的划痕和变形，无裂纹、颜色变化、毛刺等现象。

2.7. Test Photos 测试图片：

<table>
<tr><td></td><td></td></tr>
<tr><td>Fig.1 Sample photo of 1-1# to 1-10# (Board)
样品图片 1-1#~1-10#（板端正面）</td><td>Fig.2 Sample photo of 1-1# to 1-10# (Board)
样品图片 1-1#~1-10#（板端背面）</td></tr>
<tr><td></td><td></td></tr>
<tr><td>Fig.3 Sample photo of 1-1# to 1-10# (FPC)
样品图片 1-1#~1-10#（柔性电路板端）</td><td>Fig.4 Sample photo of 1-1# to 1-10# (FPC)
样品图片 1-1#~1-10#（柔性电路板端）</td></tr>
</table>

Test Item 测试项目 3: Durability 耐久性测试

3.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

3.2. Test Sample(s)测试样品:

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量
(1-1#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	10 pcs

3.3. Test Equipment 测试设备:

Equipment Name 设备名称	Model No. 设备型号	Valid Date to 校准有效期至
Special test fixture专用测试治具	/	/

3.4. Testing Standard 测试标准:

Reference: SAE/USCAR-2 REVISION 7, 2020, 5.1.7 and QC/T 1067.1-2017, 4.3.

参考 SAE/USCAR-2 REVISION 7, 2020, 5.1.7 条和 QC/T 1067.1-2017, 4.3 条。

3.5. Test Condition 测试条件:

Plating spec 镀层规格	Durability Cycles 耐久循环数
Reflow Tin plating	20

3.6. Acceptance Criteria 验收标准:

No physical damage.无物理损伤

3.7. Test Results 测试结果:

After testing, the samples showed no physical damage.

测试后，样品外观没有发现物理损伤。

3.8. Test Photos 测试图片：

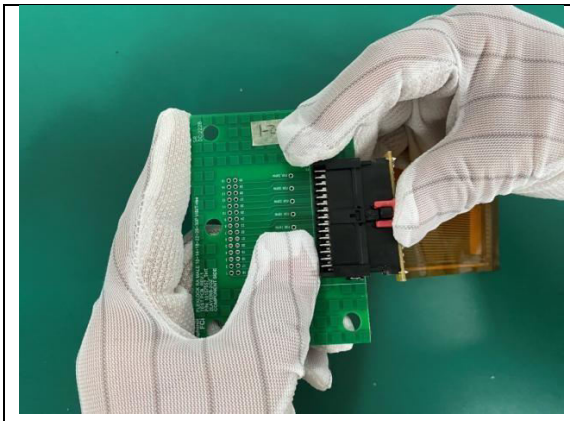


Fig.5 The FPC is inserted into the board end
FPC 插入板端

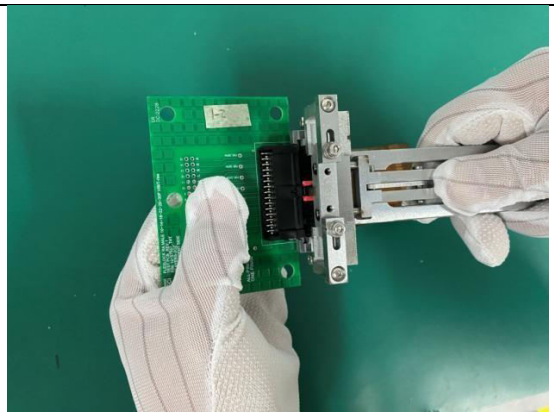


Fig.6 The terminal pull out 端子拔出

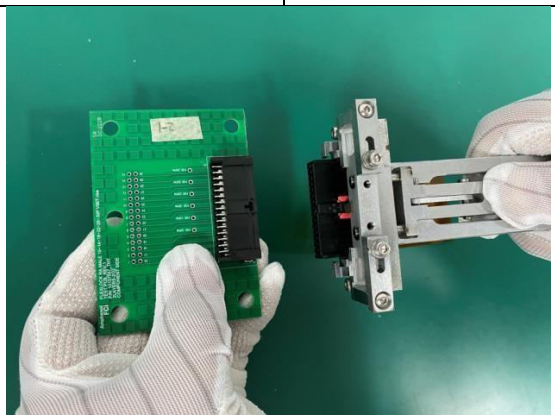


Fig.7 The terminal pull out 端子拔出

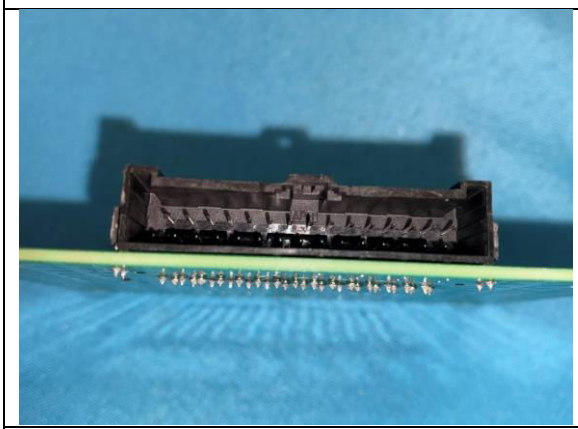


Fig.8 Visual inspection after surface testing of the terminal male end
端子公端表面测试后外观检查



Fig.9 Visual inspection after surface testing of the terminal female end
端子母端表面测试后外观检查

Test Item 测试项目 4: Dry Circuit resistance 干电路电阻

4.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

4.2. Test Sample(s)测试样品:

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量
(1-1#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	10 pcs

4.3. Test Equipment 测试设备:

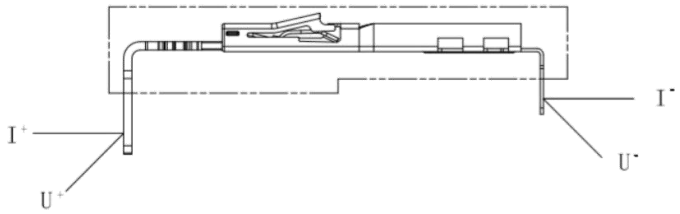
Equipment Name 设备名称	Model No. 设备型号	Valid Date to 校准有效期至
Low resistance tester低阻测试仪	TH2516	Jul 2,2024

4.4. Testing Standard 测试标准:

Reference: SAE/USCAR-2 REVISION 7, 2020,5.3.1 and QC/T 1067.1-2017,4.7.

参考 SAE/USCAR-2 REVISION 7, 2020,5.3.1 条和 QC/T 1067.1-2017,4.7 条。

4.5. Test Condition 测试条件:



Mated with applicable connector, the low level contact resistance is 25m ohm maximum initial when measured in accordance with SAE/USCAR-2 5.3.1, the contact resistance of after environmental exposure shall not exceed 15m ohm maximum angle from initial.根据 SAE/USCAR-2，5.3.1 标准测量，低电平接触电阻最大初始值为 25mΩ，与适用连接器配合使用，环境暴露后接触电阻与初始值最大接触电阻不超过 15mΩ。

4.6. Acceptance Criteria 验收标准:

The maximum initial value of contact resistance is 25m ohm, which is used with the applicable connector. The maximum contact resistance does not exceed 15m ohm.接触电阻的最大初始值为 25mΩ，与适用的连接器一起使用。最大接触电阻不超过 15mΩ。

4.7. Test Results 测试结果:

Test position	Sample No. 样品编号									Unit 单位:mΩ毫欧
	1-1#	1-2#	1-3#	1-4#	1-5#	1-6#	1-7#	1-8#	1-9#	1-10#
Pin 1	4.7	4.9	4.8	4.9	5.0	4.6	4.9	4.9	4.7	4.7
Pin 2	4.6	4.7	4.6	4.6	4.9	4.8	4.7	4.8	5.0	5.4
Pin 3	5.0	4.8	5.0	4.9	5.0	5.0	5.0	4.8	4.8	4.5
Pin 4	4.8	4.6	4.8	5.2	3.7	4.9	5.2	5.0	5.0	4.5
Pin 5	4.7	4.7	4.9	4.9	4.9	4.7	4.9	4.9	5.0	4.6
Pin 6	4.6	4.7	4.7	4.9	4.8	3.8	4.8	4.6	5.4	4.7
Pin 7	4.9	4.8	4.6	5.0	4.9	4.6	5.0	4.8	4.8	4.9
Pin 8	4.7	5.0	4.6	4.9	5.2	4.9	5.2	5.0	5.0	4.6
Pin 9	5.0	4.9	4.7	4.7	4.9	4.9	5.4	5.0	4.9	4.8
Pin 10	4.8	4.6	4.8	4.8	5.0	5.0	5.0	5.2	4.9	4.4
Pin 11	4.5	4.6	5.0	4.9	4.8	5.0	5.0	5.0	5.1	4.6
Pin 12	4.7	4.7	5.1	5.0	5.0	4.8	4.8	5.0	5.0	4.6
Pin 13	4.8	4.5	4.8	4.8	4.9	4.6	4.9	4.9	4.8	4.7
Pin 14	4.6	4.7	5.2	5.3	4.8	5.0	4.9	5.0	4.9	4.5
Pin 15	4.6	4.9	4.9	4.9	4.6	5.0	4.9	4.8	5.2	4.6
Pin 16	4.8	4.8	5.0	4.8	5.0	4.8	5.1	4.6	4.9	4.7
Pin 17	4.7	5.0	4.9	5.0	4.9	4.9	5.1	5.2	5.0	4.7
Pin 18	5.0	4.7	4.8	4.7	5.0	5.0	4.9	4.9	5.0	5.0
Pin 19	4.9	4.6	4.6	4.6	5.0	5.1	4.8	4.9	4.9	4.9
Pin 20	4.7	5.1	4.8	4.6	5.3	4.8	5.0	4.9	5.1	4.7
Pin 21	5.0	5.0	5.0	4.7	4.6	5.2	5.0	5.4	5.0	4.6
Pin 22	4.9	5.0	5.0	5.0	4.7	4.9	5.2	5.0	4.9	4.8
Pin 23	5.0	4.8	5.3	4.9	4.9	4.9	4.9	5.0	5.3	4.6
Pin 24	5.3	4.6	4.8	5.2	4.9	4.7	4.8	4.9	4.9	4.8
Pin 25	4.8	4.9	5.0	4.9	5.0	4.6	4.6	5.1	4.8	4.9
Pin 26	4.9	5.0	4.9	4.9	5.4	5.0	4.5	5.0	5.0	4.9
Pin 27	4.6	4.8	4.9	4.9	5.0	5.0	4.9	4.9	5.2	4.8
Pin 28	4.8	4.6	4.7	5.1	4.9	4.8	4.8	4.7	5.0	5.2
Pin 29	4.6	4.9	4.7	4.8	4.8	4.9	5.0	4.9	5.0	5.1
Pin 30	4.7	4.9	4.9	4.9	5.0	5.1	4.8	5.0	4.8	5.0

4.8. Test Photos 测试图片：



Fig.10 Test setup 测试设置

Test Item 测试项目 5: Vibration/Mechanical 振动和机械冲击

5.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

5.2. Test Sample(s)测试样品:

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量
(1-1#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	10 pcs
Remark 备 注 : The samples 1-1 # to 1-5 # samples shall be connected to the instantaneous tester test during the vibration mechanical shock test.1-1#至1-5#样品在振动机械冲击测试时需连接瞬断测试仪测试。			

5.3. Test Equipment 测试设备:

Equipment Name 设备名称	Model No. 设备型号	Valid Date to 校准有效期至
Vibration tester振动台	DC-7500-80	Dec 20.2024
Vibration tester振动台	IPA60H/LS544A	Dec 20.2024
One-way accelerometer 单向加速度计	24108	Mar 01.2024
One-way accelerometer 单向加速度计	14108	Mar 01.2024
Instantaneous break tester 瞬断检测仪	NM-11B（7Ω）	Feb 29.2024

5.4. Testing Standard 测试标准:

Reference: SAE/USCAR-2 REVISION 7, 2020 , 5.4.6 and QC/T 1067.1-2017,4.17.

参考 SAE/USCAR-2 REVISION 7, 2020 , 5.4.6 条 and QC/T 1067.1-2017,4.17 条。

5.5. Test Condition:

Test Condition: Random 5 Hz - 1000 Hz, 1.81 g's RMS overall

测试条件：以 60HZ-1200HZ 的频率随机振动，加速度为 12.1G.

Duration: 8 Hours per axis. 持续时间：8 小时/每轴

Direction: each of 3 orthogonal axis 方向, X,Y,Z 三个互相垂直的轴向

Vibration class: V2 振动等级：V2

V2 Random. V2 随机振动

Frequency 频率(Hz)	加速度谱密度 ASD(m/s²)²/Hz	功率谱密度 PSD(g²/Hz)
60	0.096	0.001
200	144	1.5
210	9.6	0.1
1200	9.6	0.1
Grms 加速度均方根值	119	12.1

Class Schedule for Shock 冲击等级

Vibration Class 振动等级	Shocks per Axis 每轴向冲击次数	Wave Shape 波形	Direction (+/-)方向	Duration 持续时间 (ms)	Acceleration 加速度 (g)
V2	10	Half sine wave 半正弦	Positive 正向	5~10	35

No discontinuities greater than 1 μs, when measured in accordance with SAE/USCAR-2 5.4.6 V2 level.

根据 SAE/USCAR-2 5.4.6 V2 级测量时，不连续性不应大于 1 微秒。

5.6. Acceptance Criteria 验收标准:

No damage allowed.不允许损坏。

5.7. Test Results 测试结果:

After testing, there was no physical damage to the appearance of the 1-1 # to 1-10 # samples. There is no discontinuities during the vibration shock of 1-1 # to 1-5 # samples.

测试后，1-1#~1-10#样品外观均未出现物理损伤。其中 1-1#~1-5#样品振动冲击过程中均未出现瞬断。

5.8. Test Photos：

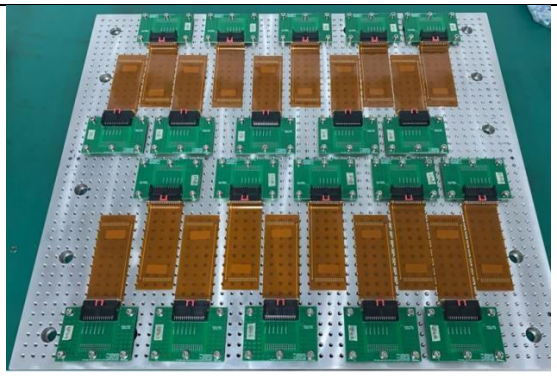


Fig.11 Sample condition before the vibration and mechanical shock test (1-1#~1-10#)
振动和机械冲击测试前样品状况 (1-1#~1-10#)

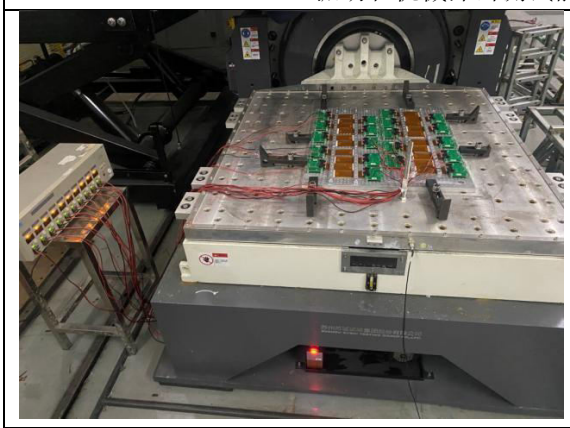


Fig.12 The X-axial vibration test setup
X 轴向振动测试设置



Fig.13 No discontinuities after the X-axial vibration test. X 轴向振动测试后无瞬断

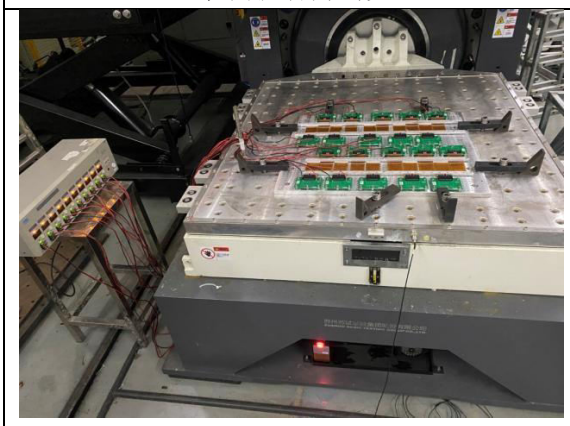


Fig.14 The Y-axial vibration test setup
Y 轴向振动测试设置



Fig.15 No discontinuities after the Y-axial vibration test. Y 轴向振动测试后无瞬断

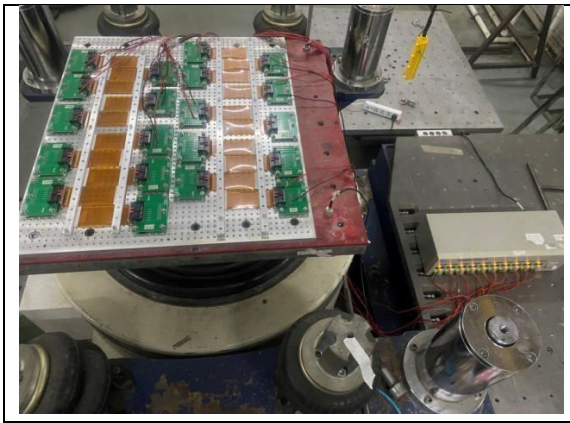


Fig.16 The Z-axial vibration test setup
Z 轴向振动测试设置

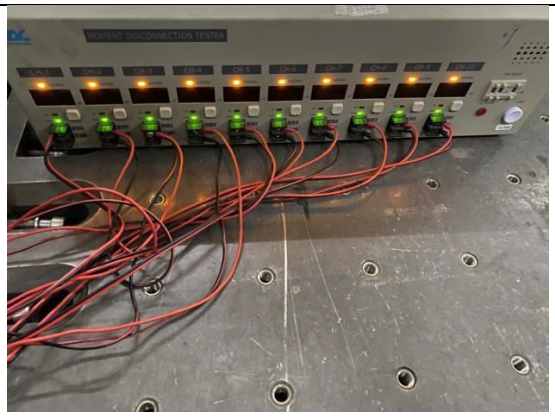


Fig.17 No discontinuities after the Z-axial vibration test. Z 轴向振动测试后无瞬断

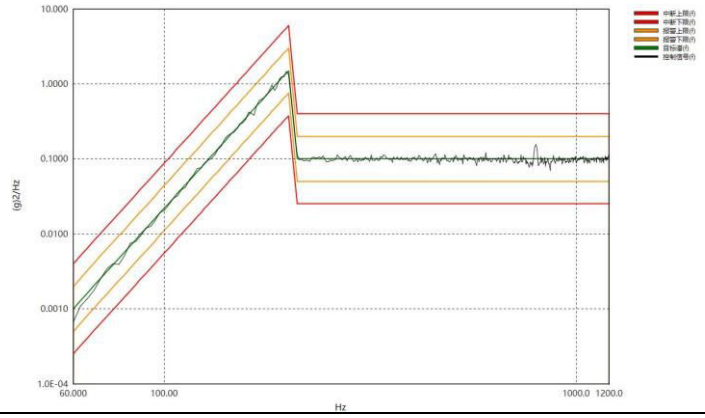


Fig.18 X axial vibration test spectrum curve X 轴向振动测试频谱曲线

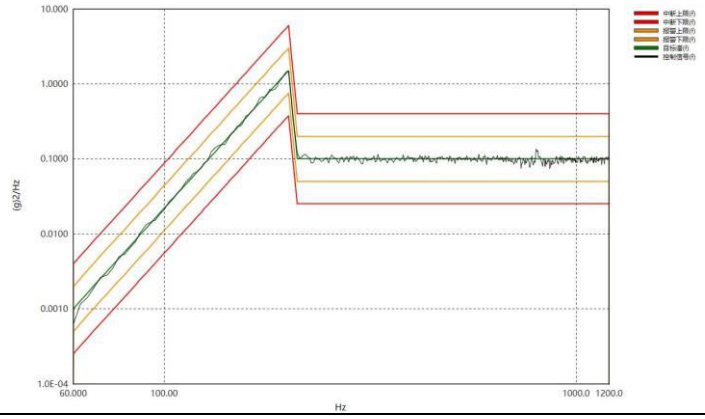


Fig.19 Y axial vibration test spectrum curve Y 轴向振动测试频谱曲线

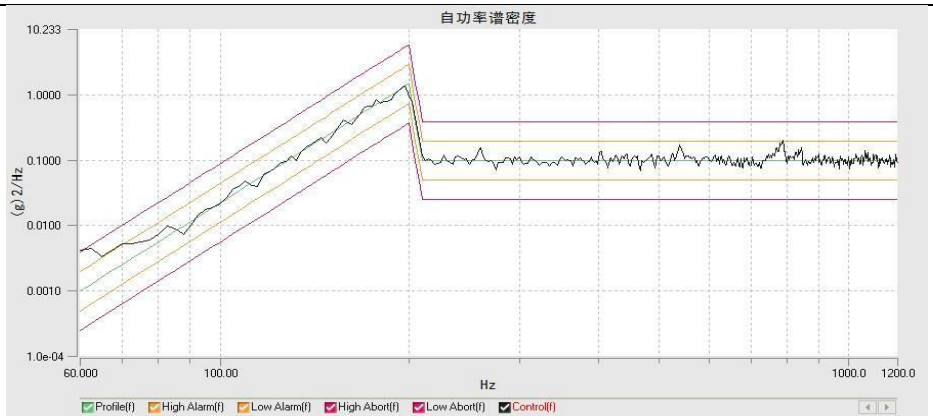


Fig.20 Z axial vibration test spectrum curve Z 轴向振动测试频谱曲线

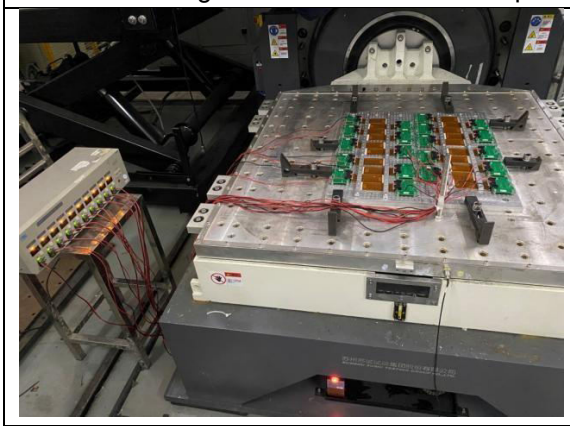


Fig.21 The +X-axial mechanical shock test setup.+X 轴向机械冲击测试设置

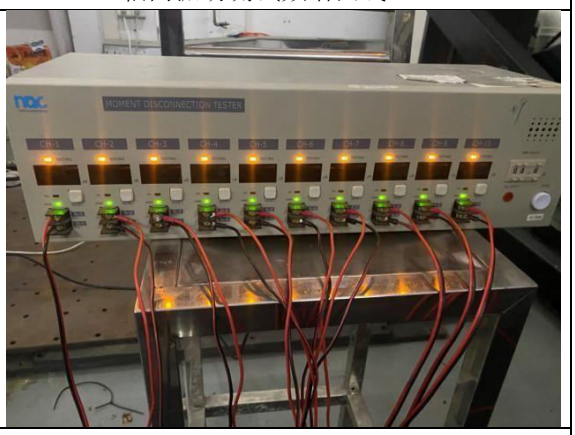


Fig.22 No discontinuities after the +X-axial mechanical shock test.
+X 轴向机械冲击测试后无瞬断

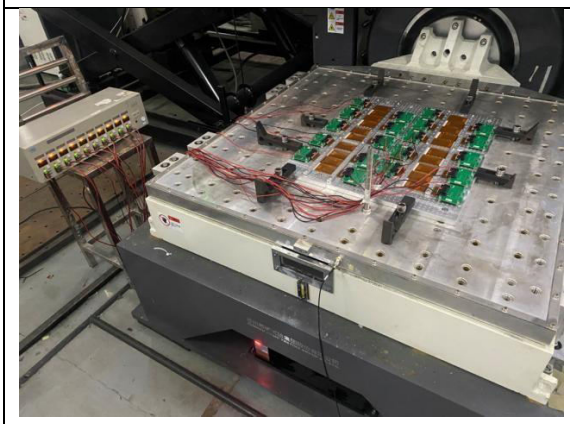


Fig.23 The y-axial mechanical shock test setup.+Y 轴向机械冲击测试设置



Fig.24 No discontinuities after the +Y-axial mechanical shock test.
+Y 轴向机械冲击测试后无瞬断

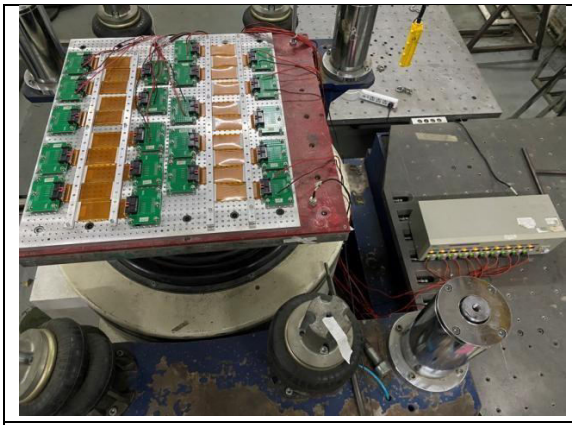


Fig.25 The +z-axial mechanical shock test setup.+Z 轴向机械冲击测试设置

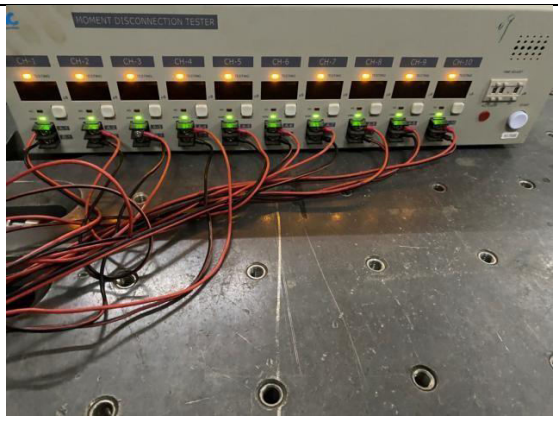


Fig.26 No discontinuities after the +Z-axial mechanical shock test.
+Z 轴向机械冲击测试后无瞬断

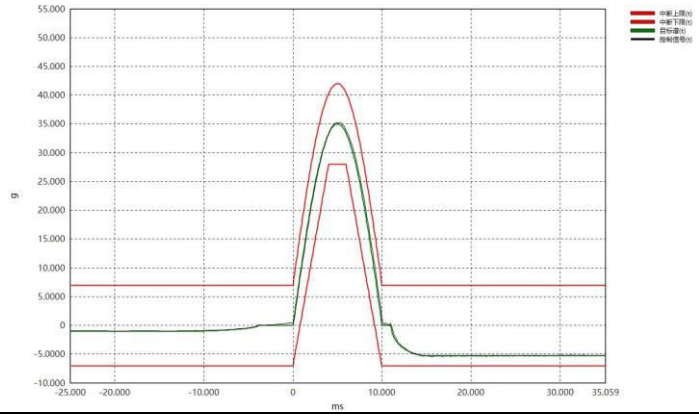


Fig.27 The +X-axial mechanical shock test curve. +X 轴机械冲击测试曲线，35g，10ms

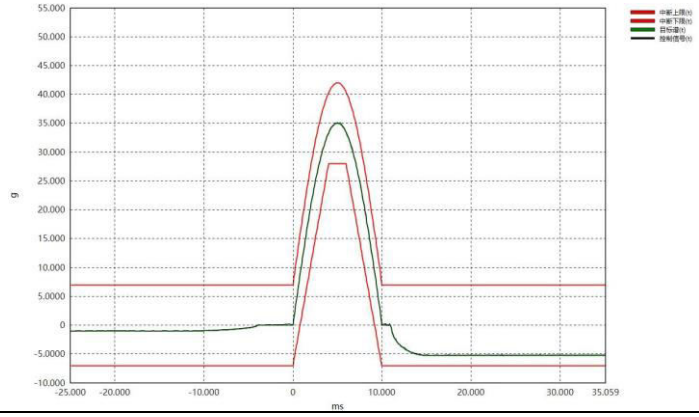


Fig.28 The +Y-axial mechanical shock test curve. +Y 轴机械冲击测试曲线，35g，10ms

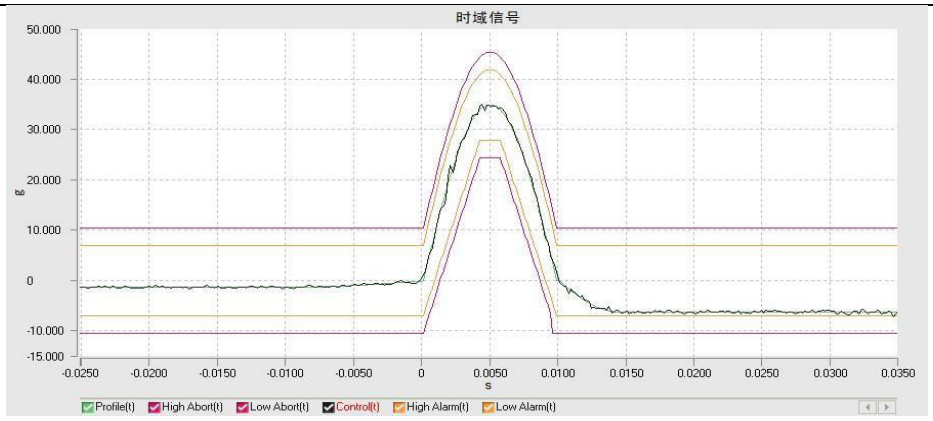


Fig.29 The +Z-axial mechanical shock test curve. +Z 轴机械冲击测试曲线，35g，10ms

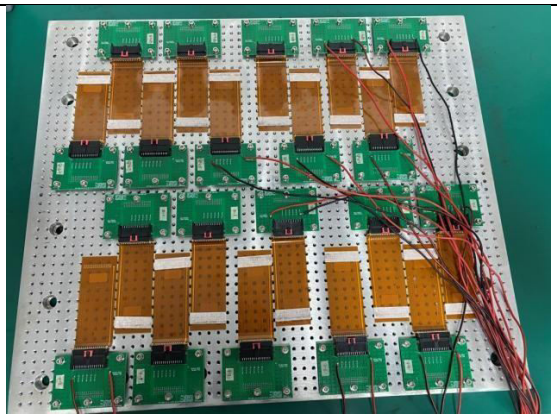


Fig.30 Sample condition after the vibration and mechanical shock test (1-1#~1-10#)

振动和机械冲击测试后样品状况 (1-1#~1-10#)

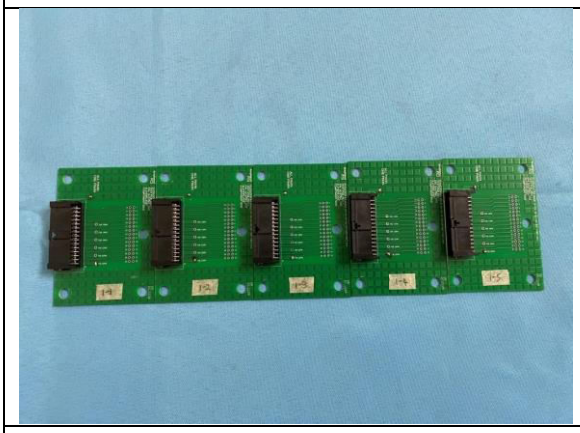


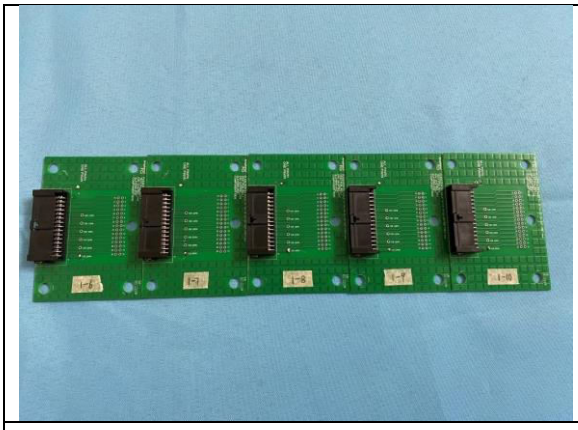
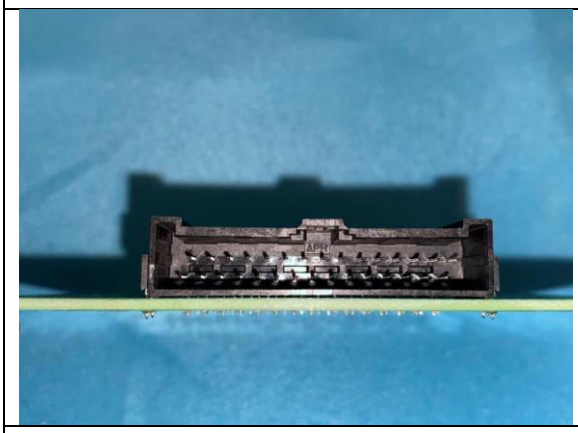
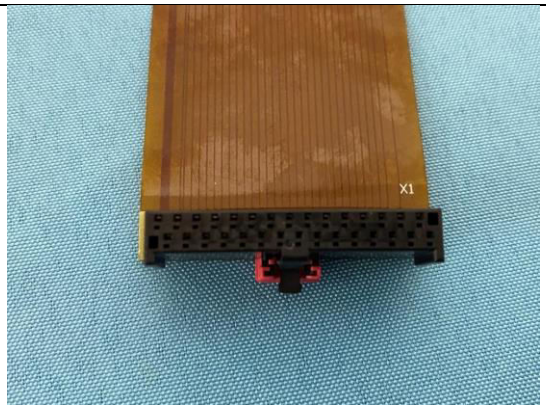
Fig.31 Appearance inspection after test (Board)

测试后样品外观检查（板端）1-1#~1-5#



Fig.32 Appearance inspection after test (FPC)

测试后样品外观检查（FPC）1-1#~1-5#

	
Fig.33 Appearance inspection after test(Board) 测试后样品外观检查（板端）1-6#~1-10#	Fig.34 Appearance inspection after test (FPC) 测试后样品外观检查（FPC）1-6#~1-10#
	
Fig.35 Visual inspection after surface testing of the terminal male end 端子公端表面测试后外观检查	Fig.36 Visual inspection after surface testing of the terminal female end 端子母端表面测试后外观检查

Test Item 测试项目 6: Dry Circuit resistance 干电路电阻

6.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

6.2. Test Sample(s)测试样品:

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量
(1-6#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	5 pcs

6.3. Test Equipment 测试设备:

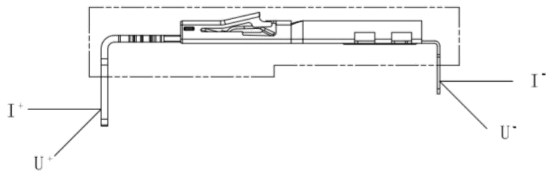
Equipment Name 设备名称	Model No. 设备型号	Valid Date to 校准有效期至
Low resistance tester低阻测试仪	TH2516	Jul 2,2024

6.4. Testing Standard 测试标准:

Reference: SAE/USCAR-2 REVISION 7, 2020,5.3.1 and QC/T 1067.1-2017,4.7.

参考 SAE/USCAR-2 REVISION 7, 2020,5.3.1 和 QC/T 1067.1-2017,4.7.

6.5. Test Condition 测试条件:



Mated with applicable connector, the low level contact resistance is 25m ohm maximum initial when measured in accordance with SAE/USCAR-2 5.3.1, the contact resistance of after environmental exposure shall not exceed 15m ohm maximum angle from initial.根据 SAE/USCAR-2 5.3.1 标准测量，低电平接触电阻最大初始值为 25mΩ，与适用连接器配合使用，环境暴露后接触电阻与初始值最大接触电阻不超过 15mΩ。

6.6. Acceptance Criteria 验收标准:

The maximum initial value of contact resistance is 25m ohm, which is used with the applicable connector. The maximum contact resistance does not exceed 15m ohm.接触电阻的最大初始值为 25mΩ，与适用的连接器一起使用。最大接触电阻不超过 15mΩ。

6.7. Test Results 测试结果:

Test position 测试位置	Sample No. 样品编号				Unit 单位:mΩ毫欧
	1-6#	1-7#	1-8#	1-9#	1-10#
Pin 1	5.1	4.8	5.7	5.5	5.1
Pin 2	5.0	6.1	5.4	6.7	4.9
Pin 3	5.2	6.3	5.3	5.4	5.4
Pin 4	4.6	5.7	5.8	5.2	5.3
Pin 5	5.5	6.2	5.3	5.0	5.2
Pin 6	5.1	6.1	4.6	4.7	5.0
Pin 7	5.5	6.3	5.6	4.7	5.6
Pin 8	4.7	6.3	4.8	5.2	5.0
Pin 9	5.7	5.9	4.8	4.6	5.1
Pin 10	5.9	6.5	4.8	5.8	5.4
Pin 11	5.5	5.9	4.2	5.6	4.9
Pin 12	5.7	6.0	4.9	5.0	4.9

Pin 13	4.2	5.5	5.3	5.8	5.3
Pin 14	4.8	5.8	5.7	5.9	5.1
Pin 15	5.0	6.6	4.9	6.1	5.3
Pin 16	6.3	6.2	4.9	5.4	5.1
Pin 17	5.7	6.1	5.2	5.0	5.3
Pin 18	6.1	5.9	5.4	5.3	5.2
Pin 19	5.6	5.3	5.0	5.5	5.4
Pin 20	5.5	5.9	5.2	5.8	5.5
Pin 21	5.4	6.0	4.9	5.4	5.6
Pin 22	5.9	6.2	5.0	5.3	4.8
Pin 23	5.1	5.8	5.2	5.2	4.8
Pin 24	6.0	5.3	4.6	5.6	5.6
Pin 25	5.6	5.4	4.8	5.8	5.9
Pin 26	5.1	6.0	5.0	5.3	5.8
Pin 27	5.4	5.9	4.9	5.2	5.3
Pin 28	5.4	6.2	5.0	5.1	5.3
Pin 29	5.7	5.4	5.3	5.0	5.3
Pin 30	5.5	6.0	5.1	5.2	5.2

6.8. Test Photos：



Fig.37 Test setup 测试设置

Test Item 测试项目 7: Voltage drop 电压降

7.1. Environment Condition 环境条件:

Temperature 温 度 : 21.7°C to 22.7°C

Relative Humidity 相对湿度: 40% to 44%

7.2. Test Sample(s):

Sample No. 样品编号	Sample name 样品名称	Model 型号	Quantity 数量

(1-6#~1-10#)	Flex 30 Pin RA-VT	Reflow TIN	5 pcs

7.3. Test Equipment:

Equipment Name 设备名称	Model No. 设备型号	Valid Date to 校准有效期至
DC source直流电源	IT6723	Feb 29.2024
Electronic load电子负载	8711	Feb 29.2024
Multimeter万用表	287C	Feb 29.2024

7.4. Testing Standard:

Reference: SAE/USCAR-2 REVISION 7, 2020,5.3.2 and QC/T 1067.1-2017,4.8.

参考 SAE/USCAR-2 REVISION 7, 2020,5.3.2 和 QC/T 1067.1-2017,4.8.

7.5. Test Condition:

a) Prepare five pairs of terminals, fix the terminals on a non-conductive working surface, insert the terminals in pairs along the center line of the terminals, and ensure that the effective insertion depth is greater than 1mm.

准备 5 对端子，并将端子固定在不导电的工作面上,沿端子中心线对插端子,并确保有效插入深度大于 1mm。

b) The samples are connected end to end in series to provide the rated current 2A to the terminal lead.样品之间通过串联的方式首尾相连接搭接电路，向端子导线提供额定电流 2A。

c) After the current stabilizes for 30 minutes, use a multimeter to measure the voltage drop at the terminal connector.待电流稳定 30 分钟后，用万用表测量端子接头处的压降。

7.6. Acceptance Criteria 验收标准:

Acceptance criteria in accordance with USCAR-2-2020, 5.3.2.4 maximum voltage drop: 50 mV
接受标准依照 USCAR-2, 5.3.2.4 最大电压降：50mV

7.7. Test Results 测试结果:

Test position	Sample No. 样品编号				Unit 单位:mV 毫伏
	1-6#	1-7#	1-8#	1-9#	1-10#
Pin 1	9.8	11.0	9.7	10.6	8.4
Pin 2	8.7	10.0	8.5	9.8	7.8
Pin 3	8.5	9.5	8.5	9.9	8.0
Pin 4	8.3	9.0	8.2	9.1	8.0
Pin 5	8.2	8.7	8.2	8.9	8.0
Pin 6	8.2	8.6	8.2	8.8	7.9

Pin 7	8.3	9.0	8.3	8.9	7.9
Pin 8	8.2	9.0	8.2	8.8	7.9
Pin 9	8.1	8.9	8.0	8.5	7.8
Pin 10	8.1	9.3	8.1	8.9	8.0
Pin 11	8.1	9.3	8.1	9.1	7.9
Pin 12	8.2	9.8	8.2	9.1	8.0
Pin 13	8.3	10.7	8.3	9.4	8.0
Pin 14	8.4	12.0	8.7	9.6	8.3
Pin 15	8.7	10.2	9.1	13.2	8.1
Pin 16	8.4	9.3	8.3	10.2	8.1
Pin 17	8.1	9.3	8.4	9.7	8.1
Pin 18	8.5	9.5	8.2	8.8	8.1
Pin 19	8.4	9.4	8.1	9.4	7.8
Pin 20	8.2	9.5	8.4	9.6	8.0
Pin 21	8.4	9.3	8.3	9.3	7.7
Pin 22	8.8	9.8	8.4	9.2	8.1
Pin 23	8.4	9.6	8.3	10.0	8.1
Pin 24	8.4	10.2	8.5	10.4	8.4
Pin 25	8.5	9.4	8.4	9.0	8.1
Pin 26	8.8	9.7	8.4	9.5	8.1
Pin 27	8.4	9.7	8.3	10.0	8.1
Pin 28	8.4	10.5	8.8	10.3	8.1
Pin 29	8.5	9.9	8.7	10.3	8.2
Pin 30	8.7	12.1	9.3	11.1	8.1

7.8. Test Photos：

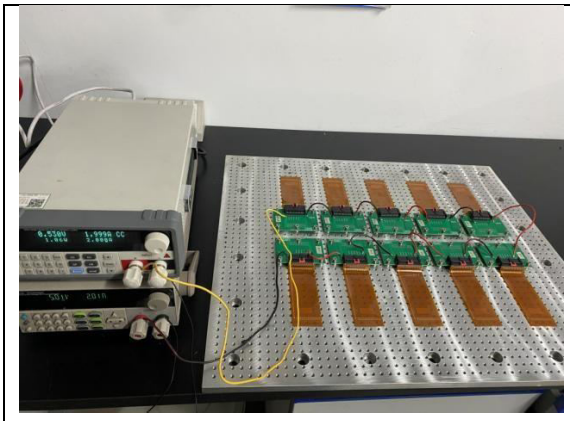


Fig.38 Circuit bonding diagram 电路搭接图

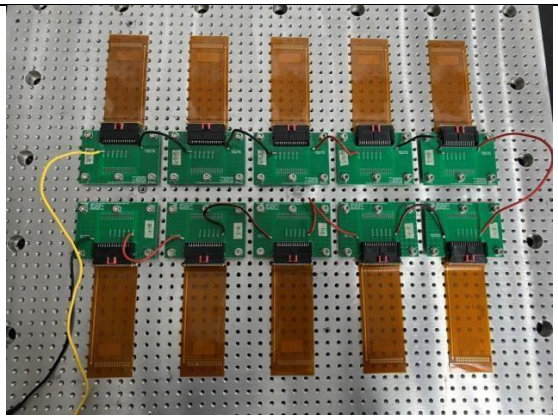


Fig.39 Circuit bonding diagram 电路搭接图

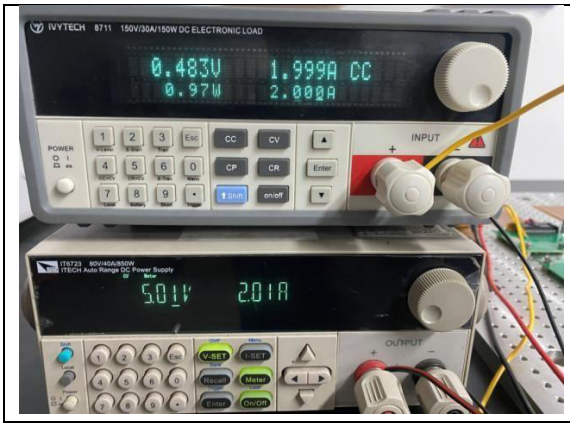


Fig.40 Test current 测试电流 2A

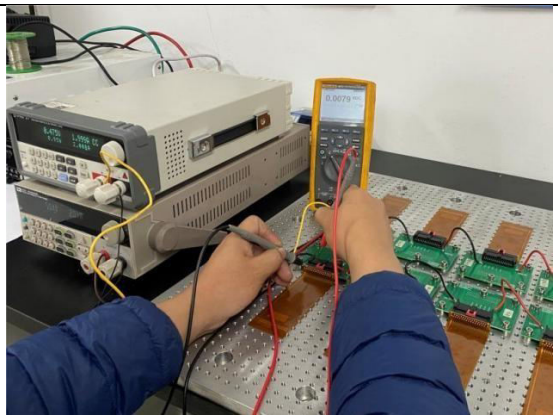


Fig.41 Test setup 测试设置



Fig.42 Test sample 测试样品(1-6#~1-10#)

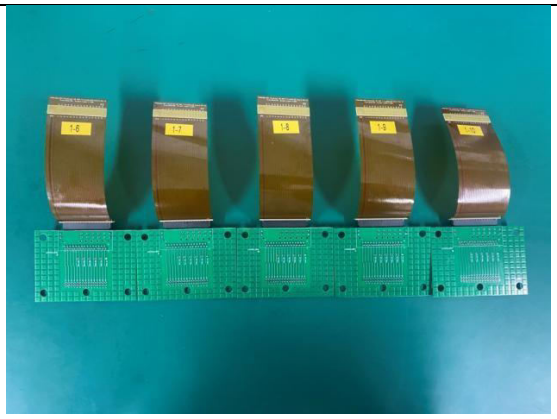


Fig.43 Test sample 测试样品(1-6#~1-10#)

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广东省东莞市沙田镇齐沙南围

CUSTOMER TEST REPORT
客户检测报告

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COMMUNICATIONS SOLUTIONS

REPORT NO. 报告编号	DATE OF REPORT 报告日期	DATES TESTED 检测日期
DL-2024-03-038-CR	**28/May/2024**	**24/Mar/2024 to 17/May/2024**

TITLE 标题	Prepared By/Title 编制/职位	Approved By/Title 批准/职位
FlexLock 30Pin Connector Partial Qualification Testing(Group J/K/L) for Improved Receptacle Terminal **FlexLock 30 针连接器对于改善母头端子的部分合格性测试（组别 J/K/L）**	**De-Sen Liu** **刘德森/测试工程师**	**Gentle Zeng** /Lab Manager **曾正道** **/实验室经理**

PURPOSE/目的

This report summarizes the partial qualification testing(Group J/K/L) conducted on FlexLock 30Pin connector, whose receptacle terminal was improved on the convex hull shape of the contact surface, to assess the conformance to SAE/USCAR-2(Rev.8, June 2022) and AFCI product specification GS-12-1937(Rev.X1, 2024/02/19).

此检测报告总结了 FlexLock 30 针连接器的部分合格性测试（组别 J/K/L），母头端子的接触表面凸包形状进行了优化，以评估其对标准 SAE/USCAR-2 (版本 8, 2022 年 6 月) 和 AFCI 产品规范 GS-12-1937(版本 X1, 2024 年 2 月 19 日)的符合性.

CONCLUSION/结论

All samples successfully completed the tested items and met the specified requirements of SAE/USCAR-2 (Rev.8, June 2022) and AFCI product specification GS-12-1937(Rev.X1, 2024/02/19).

样品均完成了测试的项目并符合 SAE/USCAR-2 (版本 8, 2022 年 6 月)和 AFCI 产品规范 GS-12-1937(版本 X1, 2024 年 2 月 19 日)的规定要求。

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SAMPLE DESCRIPTION/样品描述

The samples were received at the laboratory on Mar. 07, 2024. Prior to testing, the samples were examined at low magnification and judged to be acceptable for testing.

2024年03月07日实验室收到样品。测试前，样品经低倍数显微镜检查并确认适合检测。

Details of the submitted samples are listed in table below and illustrated in Figure 1.

送检样品详细信息见以下表格及图1。

Description 描述	Part # 料号	Lot # 批号	Base Mat'l 端子基材	Plating Type 端子电镀	Housing Mat'l 外壳材料
FlexLock 30Pin Header Connector FlexLock 30针公头连接器	10158557-R302111LF	20240116	Copper Alloy 铜合金	Sn 锡	High Temp. thermoplastic 高温热塑性塑料
FlexLock 30Pin Receptacle Connector FlexLock 30针母头连接器	10161735-V302011LF	20240116	Copper Alloy 铜合金	Sn 锡	

Above information was supplied by the requestor.

以上信息由申请者提供。

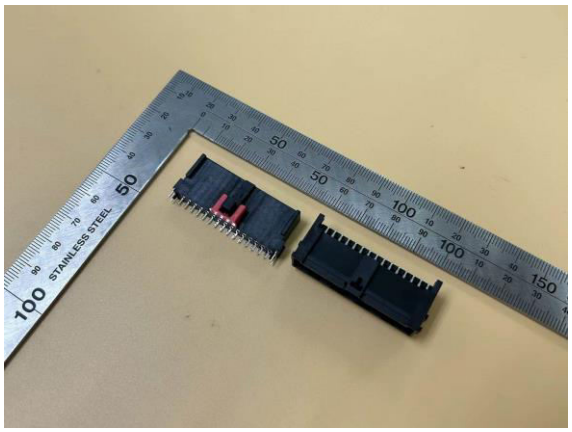


Figure 1: FlexLock 30Pin Receptacle and Header Connectors

图 1: FlexLock 30 针母头和公头连接器

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TEST SEQUENCES /检测次序

Test Description 测试描述	检测顺序 Test Sequence		
	J	K	L
Visual Inspection 外观检查	1,7	1,9	1,7
Durability 插拔循环	2	2	2
Dry Circuit resistance 干电路电阻	3,5	3,5	3,5
Voltage drop 电压降	6	6	6
Insulation Resistance(IR) 绝缘阻抗		7	
Dielectric strength of insulation(DWV) 绝缘介电强度		8	
Thermal Shock 热冲击	4		
Temperature/Humidity Cycling 温湿度循环		4	
High Temperature Exposure 高温暴露			4
Connector to Connector Mating /Un-mating Force 连接器与连接器的插入/拔出力		10	8
Header Connector(PCS) 公端连接器（个）	5+5 [1]	5+5 [2]	10
Receptacle Connector(PCS) 母端连接器（个）	5+5 [1]	5+5 [2]	10

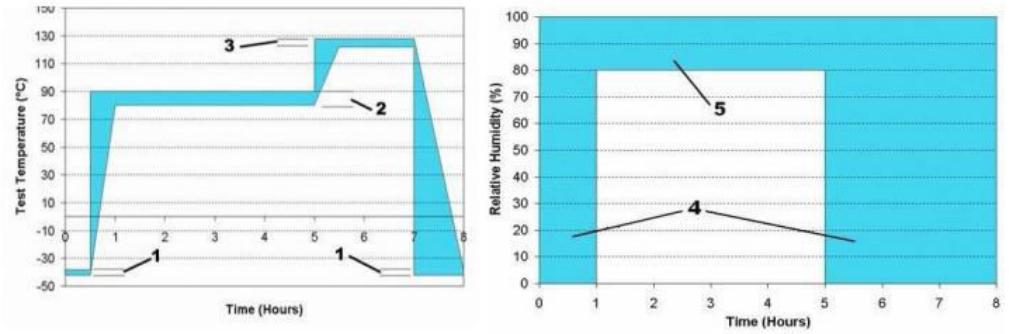
[1] .5sets samples were used for Dry Circuit resistance and Voltage drop measurements, the other 5 sets samples were used for continuity monitoring.
5 对样品用于干路电阻和电压降测量，另外 5 对样品用于连续性监测。
[2]. 5sets samples were used for Dry Circuit resistance and Voltage drop measurements, the other 5sets samples were used for Insulation Resistance and Dielectric strength of insulation measurements.
5 对样品用于干路电阻和电压降测量，另外 5 对样品用于绝缘阻抗与绝缘介电强度。

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TEST METHODS/REQUIREMENTS /检测方法/规格

Test Items 测试项目	Test method 测试方法	Condition 测试条件	Requirement 规格//要求
Visual Inspection 外观检查	SAE/USCAR-2, 5.1.8	10x magnification Min. 10 倍最小放大倍数	No detrimental condition 无缺陷
Durability 插拔循环	SAE/USCAR-2, 5.1.7 GS-12-1937_Rev.X1 &7.4.2	Mating and un-mating 10cycles,manually 手动插拔 20 个循环	No damage 无损伤
Dry Circuit resistance 干电路电阻	SAE/USCAR-2, 5.3.1 GS-12-1937_Rev.X1 &7.3.2	20mV Max., 100mA Max. 20 毫伏最大，100 毫安最大	Initial:≤25mΩ After test: ΔR≤15mΩ 初始：小于等于 25 毫欧 测试后：电阻增值小于等于 15 毫欧
Voltage drop 电压降	SAE/USCAR-2, 5.3.2 GS-12-1937_Rev.X1 &3.2	Rated current:2.0A,30minutes 额定电流：2 安培，30 分钟	≤50mV 小于等于 50 毫伏
Insulation Resistance(IR) 绝缘阻抗	SAE/USCAR-2, 5.5.1	500VDC,60seconds, mated 500伏直流电压,60秒,配合状态	≥0.1GΩ(100MΩ) 大于等于0.1吉欧
Dielectric strength of insulation(DWV) 绝缘介质强度	QC/T1067.1-2017,4.28.1	500VAC(60Hz),60seconds,mated 500伏交流电压（60赫兹）， 60秒,配合状态	Leakage current: ≤1,000μA(1mA) 泄露电流： 小于等于1,000微安
Thermal Shock 热冲击	SAE/USCAR-2 5.6.1	T3:-40˚C~125˚C,1hour/cycle, total 100cycles,mated 温度等级 3：-40~125 摄氏度，1 小 时/循环，100 循环，配合状态	No damage, No discontinuities>1μs
Temperature/Humidity Cycling 温度/湿度循环	SAE/USCAR-2 5.6.2	T3:-40˚C~125˚C,0%~95%RH, 8hour/cycle,40cycles,mated 温度等级3：-40~125摄氏度， 0~95%相对湿度，8小时/循环， 40循环，配合状态 See Fig. 2 for detailed profile 看图2见详细的曲线	No damage 无损伤
High Temperature Exposure 高温暴露	SAE/USCAR-2 5.6.3	T3:125˚C,1008hours,mated 温度等级3：125摄氏度， 1008小时，配合状态	No damage 无损伤
Connector To Connector Mating /Un-mating Force 连接器与连接器的插入/拔出力	SAE/USCAR-2, 5.4.2 GS-12-1937_Rev.X1 &7.4.1	50mm/min, without Locking mechanism and CPA 测试速度：50 毫米/分钟 不带锁止装置和连接器 位置保证机构	≥15N and ≤75N 大于等于 15 牛且 小于等于 75 牛

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Key:
1. -40 ℃
2. 80 to 90 ℃
3. Test temperature per Table 5.1.4.1 (Class 3 shown for illustration)
4. Relative humidity is uncontrolled. Do not vent chamber at hour 5
5. Use 80 to 100% relative humidity

Fig. 2: Temperature/Humidity Cycling Testing Profile

图 2: 温度/湿度循环测试曲线

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TEST RESULTS/ 检测结果

Unless otherwise specified, assessment of conformity to requirements is based on simple acceptance. The results of the testing only apply to the samples as received in the laboratory.

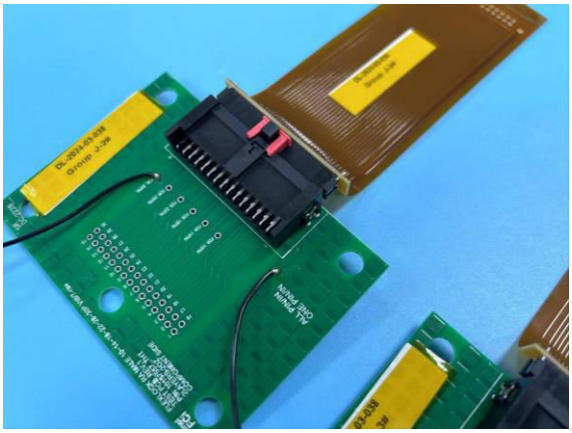
除非另有规定，对符合性要求的评价基于简单接受的判定规则。

测试结果仅适用于实验室收到的样品。

GROUP # J TEST RESULTS
组别 #J 测试结果

Step 步骤	Test 测试	Requirement 规格/要求	Step Description 步骤描述	Result 结果	Comments 备注
1	Visual Inspection 外观检查	No detrimental condition 无缺陷	Initial Exam. 初次检查	No detriment 无缺陷	Pass 合格
2	Durability 耐久循环	No Damage 无损伤	Durability 耐久循环	No Damage 无损伤	Pass 合格
3	Dry Circuit Resistance 干电路电阻	≤25mΩ 小于等于 25 毫欧	Initial Dry Circuit Resistance 初始干电路电阻	Upper Row:≤8.05mΩ Lower Row:≤5.73mΩ 上排：小于等于 8.05 毫欧 下排：小于等于 5.73 毫欧	Pass 合格
4	Thermal Shock 温度冲击	No damage, No discontinuities>1μs 无损伤 无瞬断大于 1 微秒	Thermal Shock 温度冲击	No damage, No discontinuities>1μs 无损伤 无瞬断大于 1 微秒	Pass 合格
5	Dry Circuit Resistance 干电路电阻	ΔR≤15mΩ 电阻增值小于等于 15 毫欧	After Thermal Shock 温度冲击后	Upper Row: ΔR≤7.82mΩ Lower Row: ΔR≤13.74mΩ 上排：电阻增值小于等于 7.82 毫欧 下排：电阻增值小于等于 13.74 毫欧	Pass 合格
6	Voltage Drop 电压降	≤50mV 小于等于 50 毫伏	After Thermal Shock 温度冲击后	Upper Row:≤34.14mV Lower Row:≤16.04mV 上排：小于等于 34.14 毫伏 下排：小于等于 16.04 毫伏	Pass 合格
7	Visual Inspection 外观检查	No detrimental condition 无缺陷	Final Exam. 最终检查	No detriment Details see Fig.3~5 无缺陷， 详见图 3~5	Pass 合格

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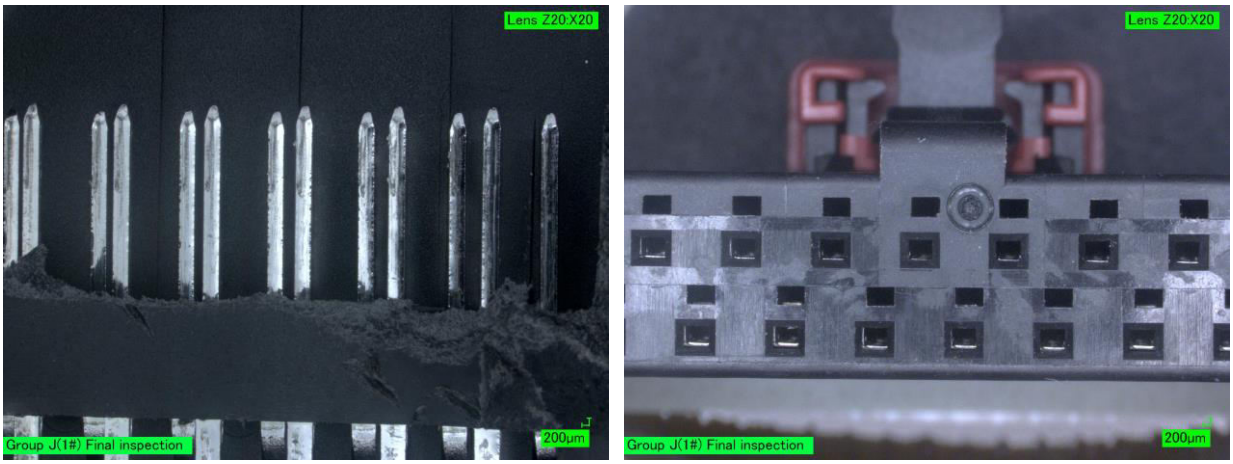


Fig. 3~5: Illustrations of Sample after Testing in Group J

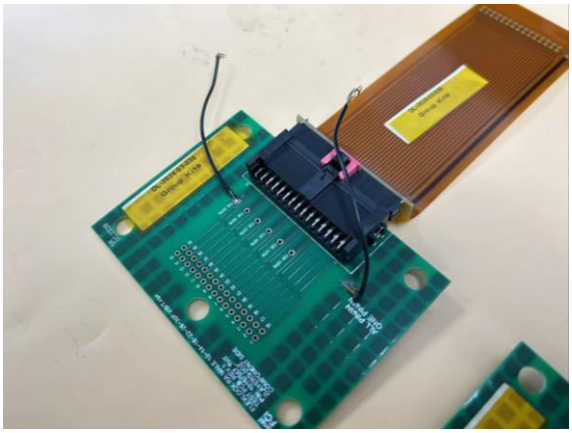
图 3~5:组别 J 测试后的样品插图

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GROUP # K TEST RESULTS
组别 #K 测试结果

Step 步骤	Test 测试	Requirement 规格/要求	Step Description 步骤描述	Result 结果	Comments 备注
1	Visual Inspection 外观检查	No detrimental condition 无缺陷	Initial Exam. 初次检查	No detriment 无缺陷	Pass 合格
2	Durability 插拔循环	No Damage 无损伤	Durability 插拔循环	No Damage 无损伤	Pass 合格
3	Dry Circuit Resistance 干电路电阻	≤25mΩ 小于等于 25 毫欧	Initial Dry Circuit Resistance 初始干电路电阻	Upper Row:≤7.85mΩ Lower Row:≤5.66mΩ 上排：小于等于 7.85 毫欧 下排：小于等于 5.66 毫欧	Pass 合格
4	Temp. /Humidity Cycling 温度/湿度循环	No damage 无损伤	Temp. /Humidity Cycling 温度/湿度循环	No damage 无损伤	Pass 合格
5	Dry Circuit Resistance 干电路电阻	ΔR≤15mΩ 电阻增值小于等于 15 毫欧	After Temp. /Humidity Cycling 温度/湿度循环后	Upper Row: ΔR≤14.19mΩ Lower Row: ΔR≤4.51mΩ 上排：电阻增值小于等于 14.19 毫欧 下排：电阻增值小于等于 4.51 毫欧	Pass 合格
6	Voltage Drop 电压降	≤50mV 小于等于 50 毫伏	After Temp. /Humidity Cycling 温度/湿度循环后	Upper Row:≤42.91mV Lower Row:≤23.57mV 上排：小于等于 42.91 毫伏 下排：小于等于 23.57 毫伏	Pass 合格
7	IR 绝缘阻抗	≥0.1GΩ(100MΩ) 大于等于 0.1 吉欧	After Temp. /Humidity Cycling 温度/湿度循环后	≥9.34GΩ 大于 9.34 吉欧	Pass 合格
8	DWV 绝缘介质强度	Leakage current: ≤1,000μA(1mA) 泄露电流： 小于等于 1,000 微安	After Temp. /Humidity Cycling 温度/湿度循环后	Leakage current: ≤6.671μA 泄露电流： 小于等于 6.671 微安	Pass 合格
9	Visual Inspection 外观检查	No detrimental condition 无缺陷	Final Exam. 最终检查	No detriment Details see Fig.6~8 无缺陷 详见图 6~8	Pass 合格
10	Connector to Connector Mating /Un-mating Force 连接器与连接器的插入/拔出力	≥15N and ≤75N 大于等于 15 牛且 小于等于 75 牛	Connector to Connector Mating /Un-mating Force 连接器与连接器的插入/拔出力	Mating Force: ≥62.34N and ≤74.67N 插入力: 大于等于 62.34 牛且 小于等于 74.67 牛 Un-mating Force: ≥65.96N and ≤74.15N 拔出力: 大于等于 65.96 牛且 小于等于 74.15 牛	Pass 合格

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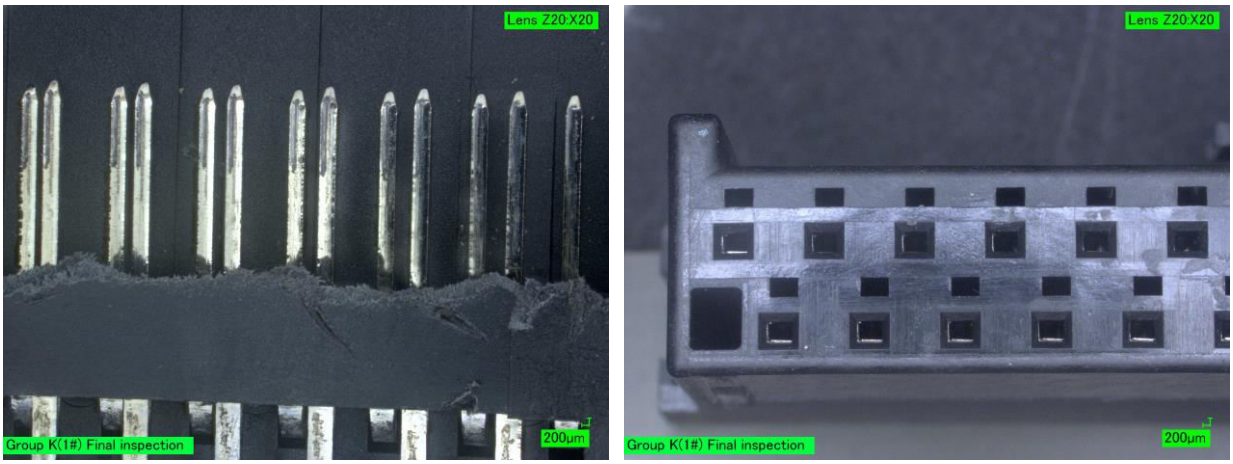


Fig. 6~8: Illustrations of Sample after Testing in Group K

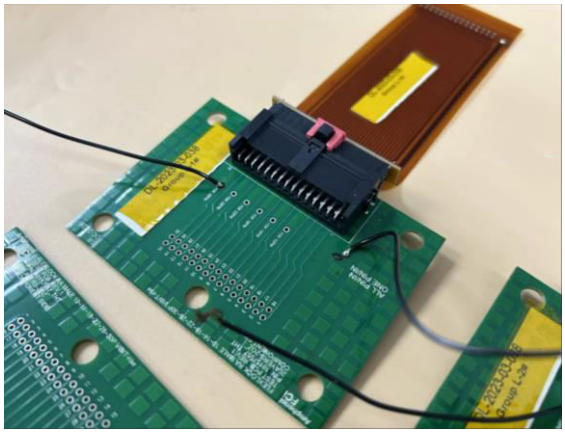
图 6~8:组别 K 测试后的样品插图

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GROUP # L TEST RESULTS
组别 #L 测试结果

Step 步骤	Test 测试	Requirement 规格/要求	Step Description 步骤描述	Result 结果	Comments 备注
1	Visual Inspection 外观检查	No detrimental condition 无缺陷	Initial Exam. 初次检查	No detriment 无缺陷	Pass 合格
2	Durability 耐久循环	No Damage 无损伤	Durability 耐久循环	No Damage 无损伤	Pass 合格
3	Dry Circuit Resistance 干电路电阻	≤25mΩ 小于等于 25 毫欧	Initial Dry Circuit Resistance 初始干电路电阻	Upper Row:≤8.46mΩ Lower Row:≤5.72mΩ 上排：小于等于 8.46 毫欧 下排：小于等于 5.72 毫欧	Pass 合格
4	High Temperature Exposure 高温暴露	No damage 无损伤	High Temperature Exposure 高温暴露	No damage 无损伤	Pass 合格
5	Dry Circuit Resistance 干电路电阻	ΔR≤15mΩ 电阻增值小于等于 15 毫欧	After High Temperature Exposure 高温暴露后	Upper Row: ΔR≤14.28mΩ Lower Row: ΔR≤5.50mΩ 上排：电阻增值小于等于 14.28 毫欧 下排：电阻增值小于等于 5.50 毫欧	Pass 合格
6	Voltage Drop 电压降	≤50mV 小于等于 50 毫伏	After High Temperature Exposure 高温暴露后	Upper Row:≤45.50mV Lower Row:≤23.39mV 上排：小于等于 45.50 毫伏 下排：小于等于 23.39 毫伏	Pass 合格
7	Visual Inspection 外观检查	No detrimental condition 无缺陷	Final Exam. 最后检查	No detriment Details see Fig.9~11 无缺陷 详见图 9~11	Pass 合格
8	Connector to Connector Mating /Un-mating Force 连接器与连接器的插入/拔出力	≥15N and ≤75N 大于等于 15 牛且 小于等于 75 牛	Connector to Connector Mating /Un-mating Force 连接器与连接器的插入/拔出力	Mating Force: ≥60.73N and ≤69.29N 插入力: 大于等于 60.73 牛且小于等于 69.29 牛 Un-mating Force: ≥60.73N and ≤69.31N 拔出力: 大于等于 60.73 牛且小于等于 69.31 牛	Pass 合格

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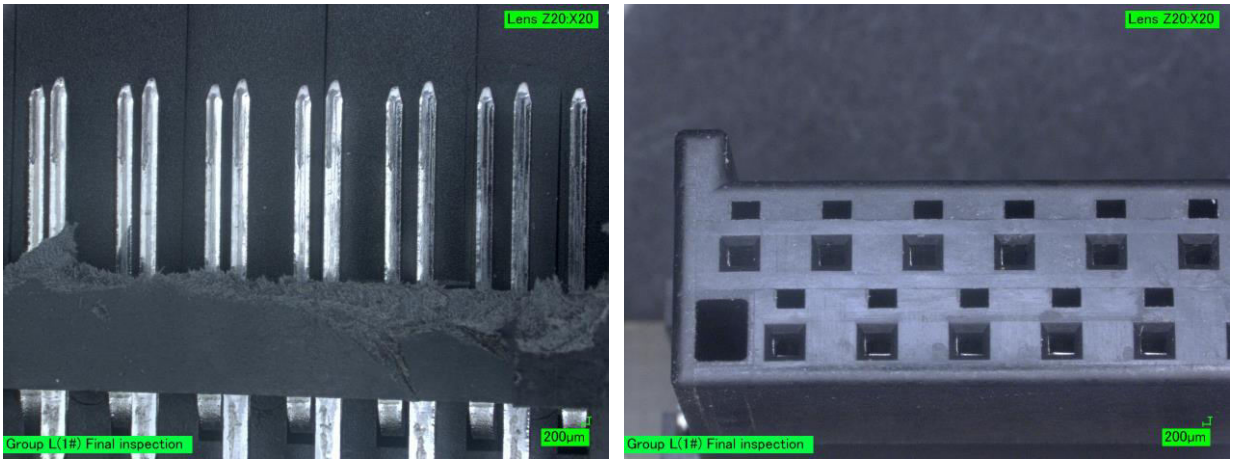


Fig. 9~11: Illustrations of Sample after Testing in Group L

图 9~11:组别 L 测试后的样品插图

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REVISION RECORD / 修订记录

Revision Level 版次	Affected Pages 修订页码	Description 描述	Revision Date 修订日期
A	All	Original Release 首次发行	28/May/2024

Note: Each new revision replaces/supersedes all previous revisions.
注：新版本将取代所有之前的旧版本。

****** End of Report ******
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Amphenol

COMMUNICATIONS SOLUTIONS

Flex Lock product

Terminal optimize for Temperature Level T3

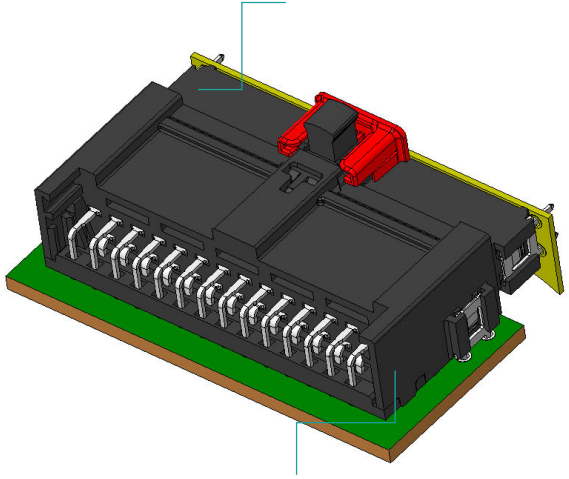


FCi Basics

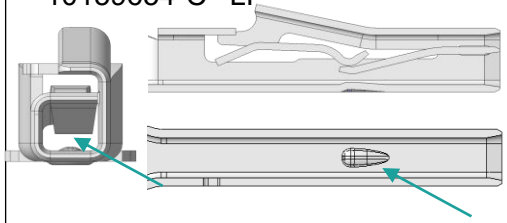
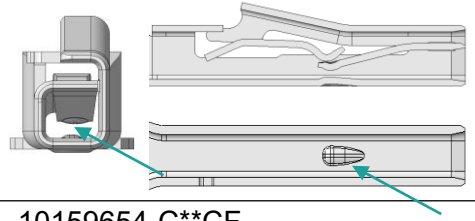
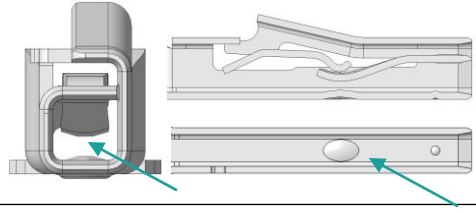
10161735

Same to 10158558 & 10164520

These series use the same terminal

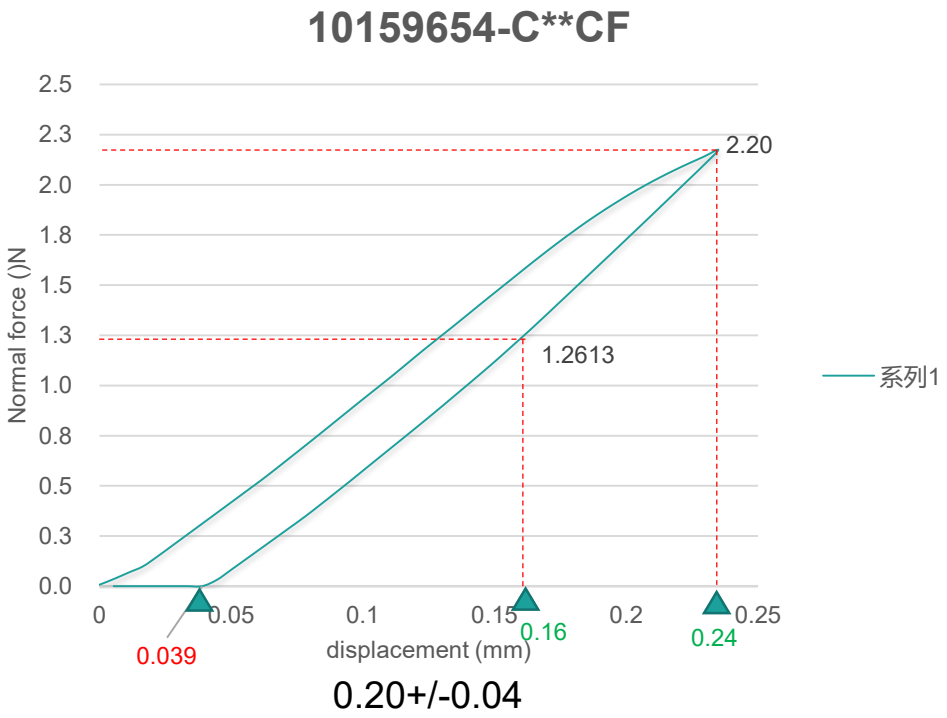


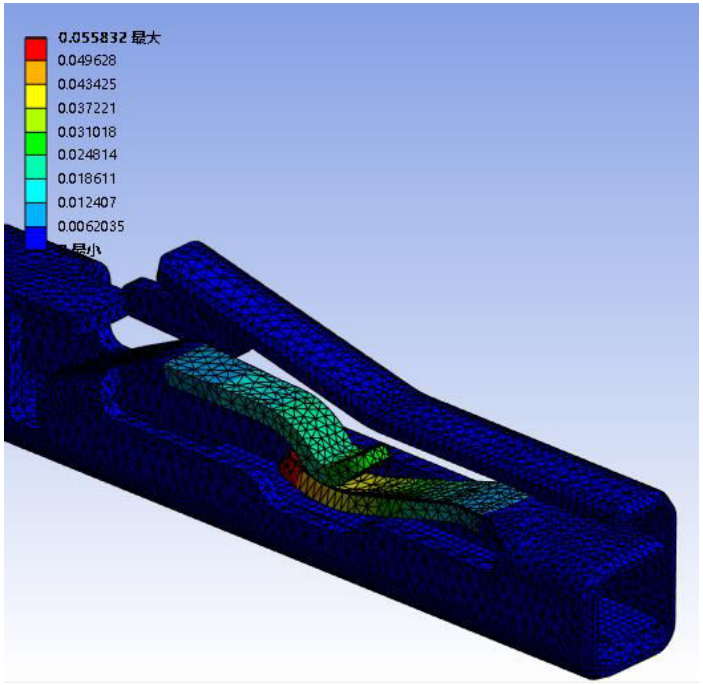
10158557

Rec Conn PN	Type	USCAR / LV214	durability	Terminal image	
10161735-V302111LF	Standard Flex lock	USCAR V2 (USCAR all Group pass) LV214 TG17 S2 LV214 TG19 (LV214 Others No Test)	10 10	10159654-C**LF 	Current product
10161735-N302111LF	Special Flex lock	USCAR V2 (USCAR all Group pass) LV214 TG17 S3 LV214 TG19 (LV214 Others No Test)	10	10159654-C**BF 	Current product
Terminal ellipse shape optimize in order to improve the durability From 10 up to 20 cycles (LV214 durability spec)				10159654-C**CF 	post-optimized

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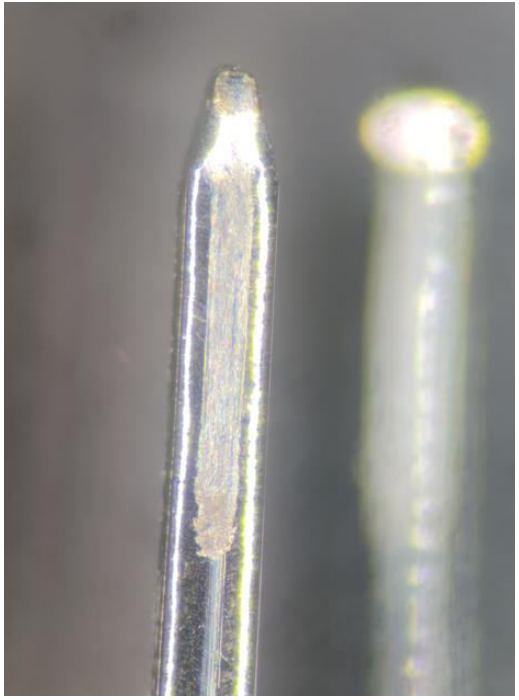
Normal Force

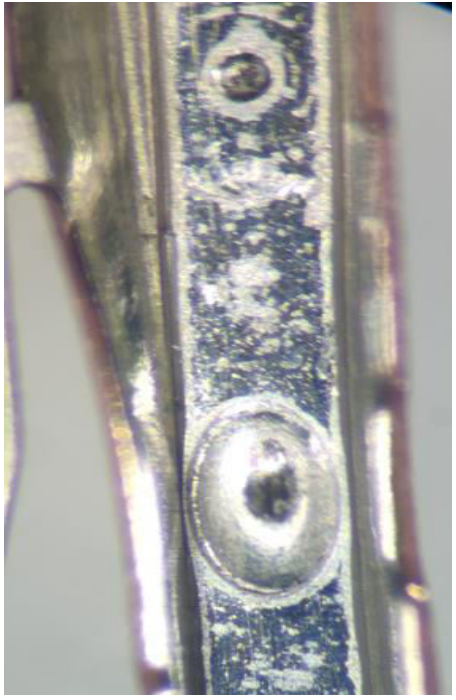




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Durability 20 cycles--- Appearance







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Related Test result		
USCAR Test item	10159654-C**LF/BF	10159654-C**CF
Durability	10 cycles	20 cycles
Vibration & shock	Pass (USCAR V2)	Pass (USCAR V2)
Thermal Shock	Pass T2 100℃ Max	Pass T3 125℃ Max
Temperature/Humidity Cycling	Pass T2 100℃ Max	Pass T3 125℃ Max
High Temp. Exposure	Pass T max=105℃ 1005H	Pass T max=125℃ 1005H

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THE END

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PCN Reference	MPN	Change	Effective Date
PCN24075	10164520-R180001LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V36201DLF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V36201CLF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V36201BLF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V36201ALF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V302011LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V301013LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V301011LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V28201BLF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V28201ALF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-V281011LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-S302011LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-N30211BLF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-N30211ALF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10161735-N302011LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R30211ALF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R302111LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R30210ALF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R301111LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R28211ALF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R282111LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R122111LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-R121111LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-N282111LF	DESIGN CHANGE	AUGUST 01, 2024
PCN24075	10158558-B282111LF	DESIGN CHANGE	AUGUST 01, 2024
Count:	**25**		

Last Disty Return date	Last Shipment date	Alternative Parts

Product Family	Primary MU
676-47ZF-3.20MM RA RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45ZF-VERTICAL RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430
676-45XF-RA RECEPTACLE	4543-45430

Product Manager	Status	HPL Code
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	DISCONTINUE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	PRE-PRODUCTION	676
JENNIFER.ZHANG@FCI.COM	PRE-PRODUCTION	676
JENNIFER.ZHANG@FCI.COM	PROTOTYPE	676
JENNIFER.ZHANG@FCI.COM	PRE-PRODUCTION	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	PRE-PRODUCTION	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	PRE-PRODUCTION	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676
JENNIFER.ZHANG@FCI.COM	ACTIVE	676

HPL Description	S&OP Description
FLEXLOCK	3.20MM RA RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	VERTICAL RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE
FLEXLOCK	RA RECEPTACLE