

检 测 报 告

TEST REPORT

报告编号 (No.) :UTS23060026R54 报告日期 (Report Date) : 2023/08/25

委托单位/Client : 浙江新富尔电子有限公司
Zhejiang Xinfuer Electron Co.,Ltd
地 址/Address : 浙江省乐清市虹桥镇溪西工业区标准厂区 9 号
No.9 Xixi industrial park,Hongqiao town,Yueqing,Zhejiang,China

以下样品信息由申请人提供及确认:

The sample(s) information below is/are provided and confirmed by client:

样品名称/Sample Name : PHC 系列连接器/PHC series connectors

料 号/Part No. : PHC-nAWB-NK
PHC-nAB-NK
PHC-T-NK
PHC-nY-NK
PHC-nYK

接样日期/Receiving Date : 2023/06/20

检测项目/Test Item : TG8 壳体中接触件的插入力和保持力
TG8 Insertion and retention forces of the contact parts in the housing

签 发 人 樊建红
Approved by 樊建红 授权签字人

审 核 毛贯南
Reviewed by 毛贯南

编 制 王彭
Prepared by 王彭

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江苏省优联检测技术服务有限公司

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1、测试标准/Test Standard

VW 75174 LV-214 2018 及客户要求; VW 75174 LV-214 2018 and customer requirements

2、测试日期/Test Date

2023/07/14-2023/07/17

3、测试仪器/Test Equipment

设备名称 Test Equipment	设备编号/型号 Equipment Number/Type	校准有效期 Calibration Period of Validity
全自动插拔力试验机 Fully automatic insertion and extraction force testing machine	R-1-559	2024/08/12

4、测试条件/Test Condition

a) 每副模具 2 个齐全的护套;

a) 2 fully equipped contact housings per cavity;

P0.1 目检;

P0.1 Visual inspection;

P8.1 测量端子插入力;

P8.1 Determining the contact insertion forces;

P8.2 端子从护套拉拔力;

P8.2 Contact pull-out strength from the contact housing;

P8.2.1 端子从护套拉拔力, 仅主锁(每副模具 1 个护套);

P8.2.1 Contact pul-out strength in the contact housing, primary locking device only (1 contact housing per cavity);

P8.2.2 端子从护套拉拔力, 仅 2 次锁(每副模具 1 个护套);

P8.2.2 Contact pul-out strength in the contact housing, secondary locking device only (1 contact housing per cavity);

P0.1 目检;

P0.1 Visual inspection;

b) 每副模具 1 个齐全的护套(新零件);

b) 1 fully equipped contact housing per cavity (new parts);

P0.1 目检;

P0.1 Visual inspection;

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L8.1 使用原释放工具拔出端子 3 次;
L8.1 Removal of the contacts 3 times with original release tools;

P8.2 端子从护套拉拔力, 仅主锁(每副模具 1 个护套)但至少 10 个端子满足 P8.2.1 的低值;
P8.2 Contact pull-out strength in the contact housing, primary locking device only (1 contact housing per cavity), however at least 10 contacts with the lowest values from P 8.2.1;

P0.1 目检;
P0.1 Visual inspection;

5、测试结果/Test Result(s)

外观检查 (测试前) a 组&b 组; Visual inspection before test Group a & Group b;

样品编号 Sample No.			结果 Result
2pin	1#-5#	1	没有松动、裂纹、变形等缺陷。 No detrimental looseness, cracks, flaws, deformation, etc.
		2	
8pin	1#-2#	1	没有松动、裂纹、变形等缺陷。 No detrimental looseness, cracks, flaws, deformation, etc.
		2	
		3	
		4	
		5	
15pin	1#	1	没有松动、裂纹、变形等缺陷。 No detrimental looseness, cracks, flaws, deformation, etc.
		2	
		3	
		4	
		5	
		6	
		7	
		8	
		9	
		10	

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拔插力试验 a 组; Insertion and extraction force test Group a;

样品编号 Sample No.			结果 Result			判定依据 Judgment Basis	判定 Determine
			插入力 Insertion force(N)	主锁拔出力 Primary lock Extraction force(N)	2 次锁拔出力 2nd level lock Extraction force(N)		
2pin	1#	1	2.35	33.58	91.04	主锁拔出力>25N, 2 次锁拔出力>35N; Primary lock Extraction force>25N, 2nd level lock Extraction force>35N	符合 PASS
		2	1.97	32.82	83.43		符合 PASS
	2#	1	2.97	42.03	88.26		符合 PASS
		2	2.87	39.62	90.53		符合 PASS
	3#	1	2.72	38.83	80.90		符合 PASS
		2	1.73	32.75	90.04		符合 PASS
	4#	1	2.56	44.55	86.61		符合 PASS
		2	2.33	37.31	88.84		符合 PASS
	5#	1	2.37	39.92	80.03		符合 PASS
		2	2.28	35.71	79.78		符合 PASS
8pin	1#	1	2.50	39.27	79.92	主锁拔出力>25N, 2 次锁拔出力>35N; Primary lock Extraction force>25N, 2nd level lock Extraction force>35N	符合 PASS
		2	1.91	38.53	79.60		符合 PASS
		3	2.02	41.74	84.52		符合 PASS
		4	1.75	42.05	88.82		符合 PASS
		5	1.72	39.85	80.25		符合 PASS
	2#	1	1.91	36.40	80.27		符合 PASS
		2	1.68	37.14	76.43		符合 PASS
		3	2.07	39.55	78.63		符合 PASS
		4	2.02	42.99	87.88		符合 PASS
		5	1.94	39.27	88.15		符合 PASS

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样品编号 Sample No.			结果 Result			判定依据 Judgment Basis	判定 Determine
			插入力 Insertion force(N)	主锁拔出力 Primary lock Extraction force(N)	2次锁拔出力 2nd level lock Extraction force(N)		
15pin	1#	1	1.67	39.71	84.02	主锁拔出力>25N, 2次锁拔出力>35N; Primary lock Extraction force>25N, 2nd level lock Extraction force>35N	符合 PASS
		2	2.21	34.85	77.25		符合 PASS
		3	1.81	33.85	82.87		符合 PASS
		4	1.58	38.86	77.57		符合 PASS
		5	1.56	34.82	86.10		符合 PASS
		6	1.79	39.78	75.83		符合 PASS
		7	1.68	43.17	86.60		符合 PASS
		8	1.57	32.80	88.80		符合 PASS
		9	1.61	33.15	85.31		符合 PASS
		10	2.04	36.16	83.34		符合 PASS

备注/Remark: 判定限值依 VW 75174 LV-214 2018./The prescribed limit(s) is/are according to VW 75174 LV-214 2018.

拔出力试验 b 组; Extraction force test Group b;

样品编号 Sample No.			结果 Result	判定依据 Judgment Basis	判定 Determine
			拔出力 Extraction force(N)		
2pin	1#	1	35.51	满足 P8.2.1 的低值 32.75N;Meet lowest values 32.75N from P 8.2.1	符合 PASS
		2	35.88		符合 PASS
	2#	1	40.04		符合 PASS
		2	36.22		符合 PASS
	3#	1	33.67		符合 PASS
		2	38.16		符合 PASS
	4#	1	44.20		符合 PASS
		2	37.09		符合 PASS
	5#	1	33.41		符合 PASS
		2	41.46		符合 PASS

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样品编号 Sample No.			结果 Result	判定依据 Judgment Basis	判定 Determine
			拔出力 Extraction force(N)		
8pin	1#	1	48.60	满足 P8.2.1 的低值 32.75N;Meet lowest values 32.75N from P 8.2.1	符合 PASS
		2	41.88		符合 PASS
		3	38.22		符合 PASS
		4	40.01		符合 PASS
		5	37.18		符合 PASS
	2#	1	33.89		符合 PASS
		2	36.68		符合 PASS
		3	36.51		符合 PASS
		4	42.74		符合 PASS
		5	34.67		符合 PASS
15pin	1#	1	33.56	满足 P8.2.1 的低值 32.75N;Meet lowest values 32.75N from P 8.2.1	符合 PASS
		2	43.87		符合 PASS
		3	37.65		符合 PASS
		4	43.93		符合 PASS
		5	38.93		符合 PASS
		6	36.14		符合 PASS
		7	41.97		符合 PASS
		8	34.05		符合 PASS
		9	34.29		符合 PASS
		10	45.66		符合 PASS

备注/Remark: 判定限值依 VW 75174 LV-214 2018./The prescribed limit(s) is/are according to VW 75174 LV-214 2018.

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外观检查 (测试后) a 组; Visual inspection after test Group a;

样品编号 Sample No.			结果 Result
2pin	1#-5#	1	2 级锁拔出力测试后，线束断裂。 After the pull-out force test of the second level lock, the wiring harness broke;
		2	
8pin	1#-2#	1	2 级锁拔出力测试后，线束断裂。 After the pull-out force test of the second level lock, the wiring harness broke;
		2	
		3	
		4	
		5	
15pin	1#	1	2 级锁拔出力测试后，线束断裂。 After the pull-out force test of the second level lock, the wiring harness broke;
		2	
		3	
		4	
		5	
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		7	
		8	
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		10	

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外观检查 (测试后) b 组; Visual inspection after test Group b;

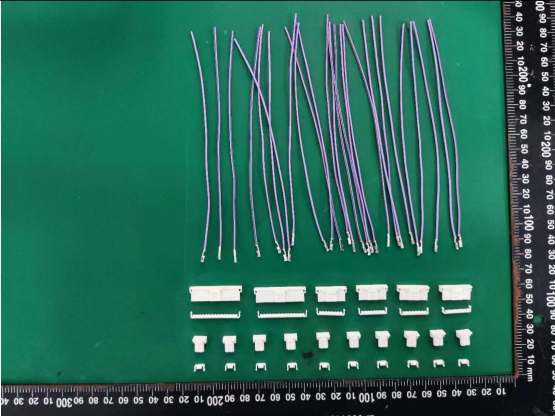
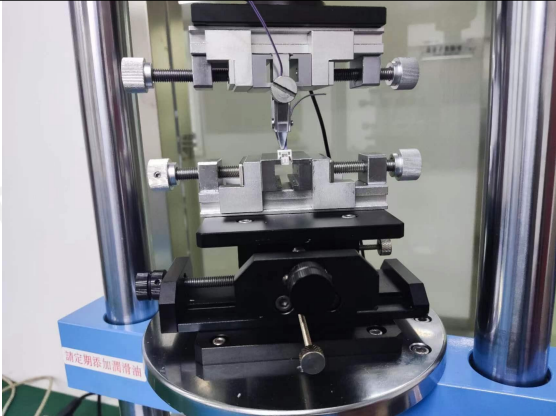
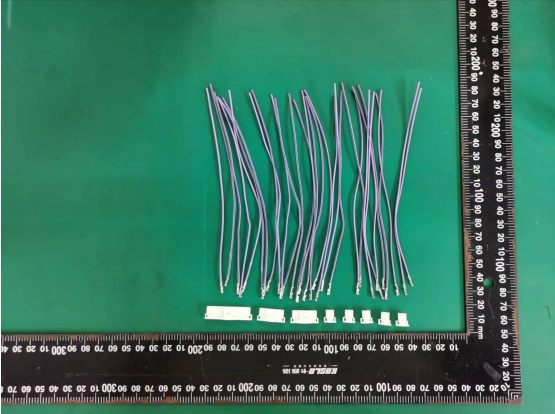
样品编号 Sample No.			结果 Result
2pin	1#-5#	1	没有松动、裂纹、变形等缺陷。 No detrimental looseness, cracks, flaws, deformation, etc.
		2	
8pin	1#-2#	1	没有松动、裂纹、变形等缺陷。 No detrimental looseness, cracks, flaws, deformation, etc.
		2	
		3	
		4	
		5	
15pin	1#	1	没有松动、裂纹、变形等缺陷。 No detrimental looseness, cracks, flaws, deformation, etc.
		2	
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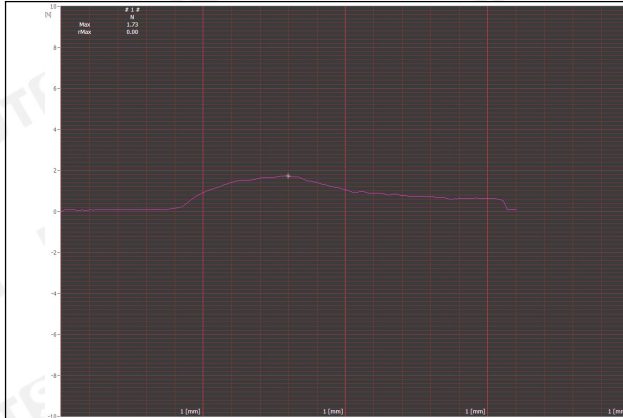
6、测试照片/Test Photo(s)

a 组; Group a	
	
测试前; Before test	测试中; During test
	
主锁拔出力测试后; After test-Primary lock extraction force	2 次锁拔出力测试后; After test-2nd level lock extraction force

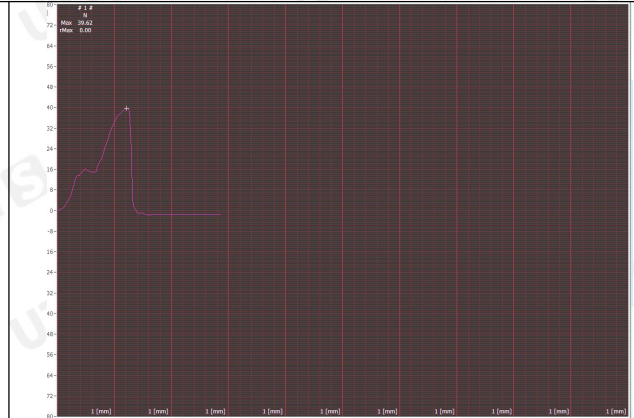
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2PIN 插入力;
Test curve-2PIN insertion force



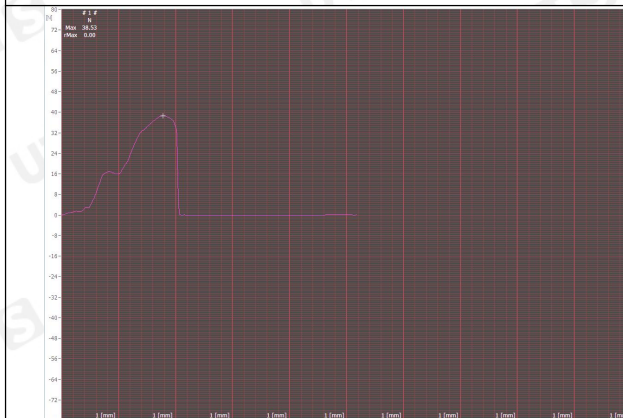
2PIN 主锁拔出力;
Test curve-2PIN Primary lock extraction force



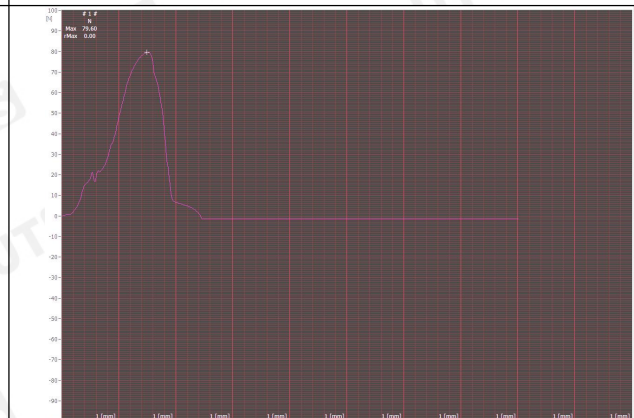
2PIN 2 次锁拔出力;
Test curve-2PIN 2nd level lock extraction force



8PIN 插入力;
Test curve-8PIN insertion force



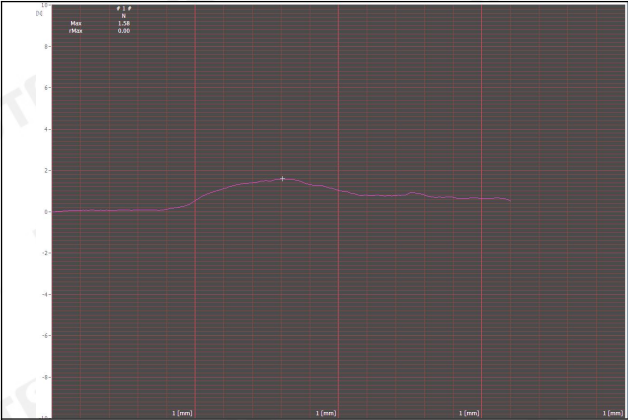
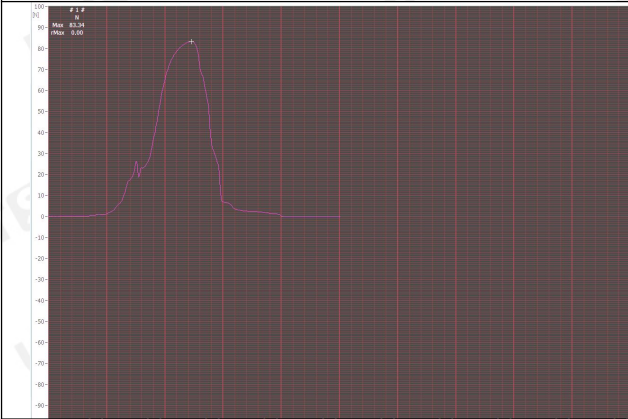
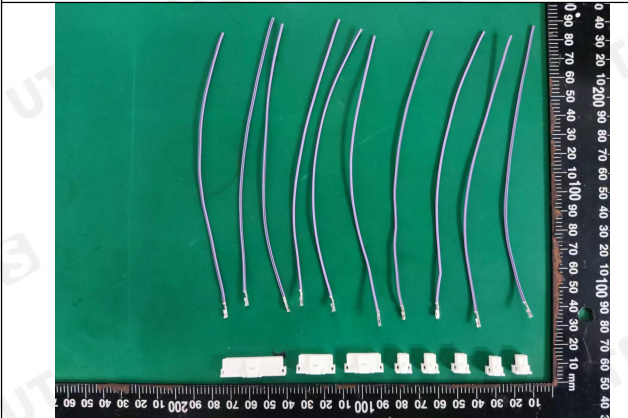
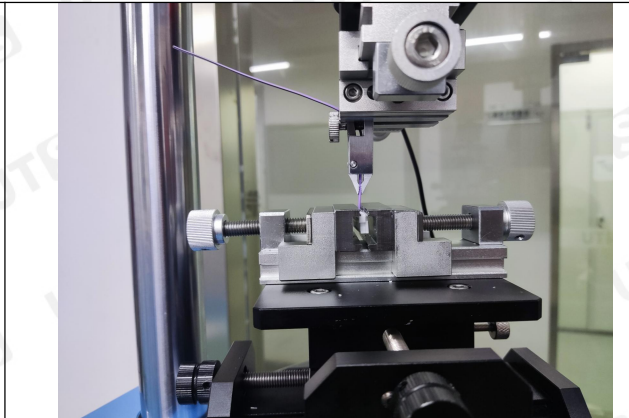
8PIN 主锁拔出力;
Test curve-8PIN Primary lock extraction force



8PIN 2 次锁拔出力;
Test curve-8PIN 2nd level lock extraction force

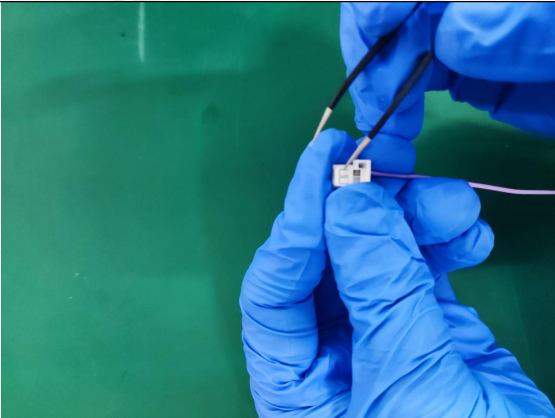
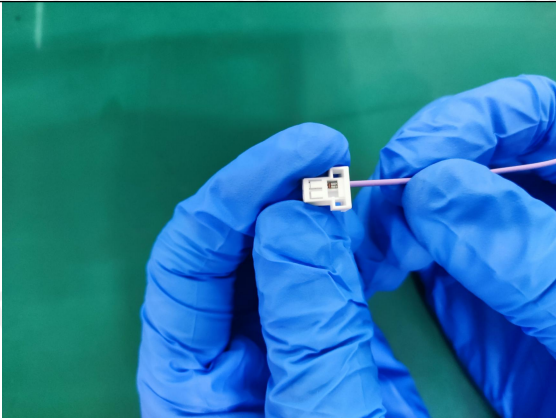
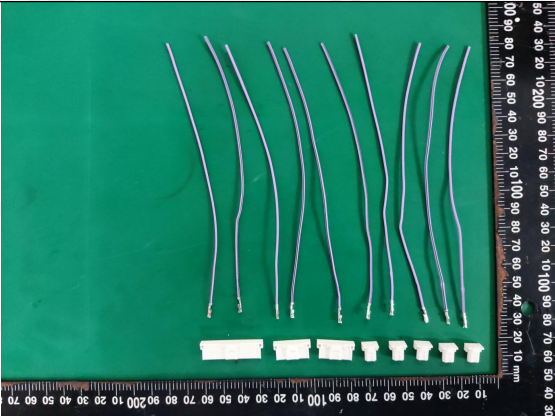
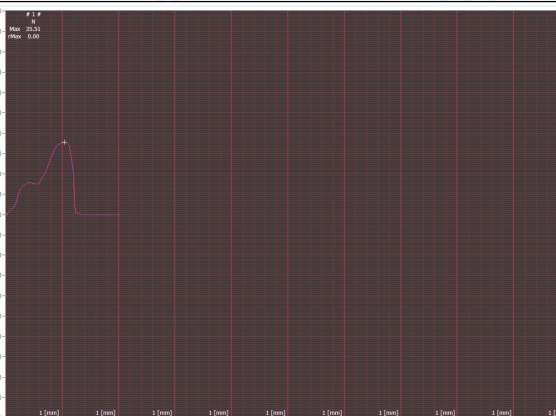
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15PIN 插入力; Test curve-15PIN insertion force	15PIN 主锁拔出力; Test curve-15PIN Primary lock extraction force
	/
15PIN 2 次锁拔出力; Test curve-15PIN 2nd level lock extraction force	/
b 组; Group b	
	
测试前; Before test	测试中; During test

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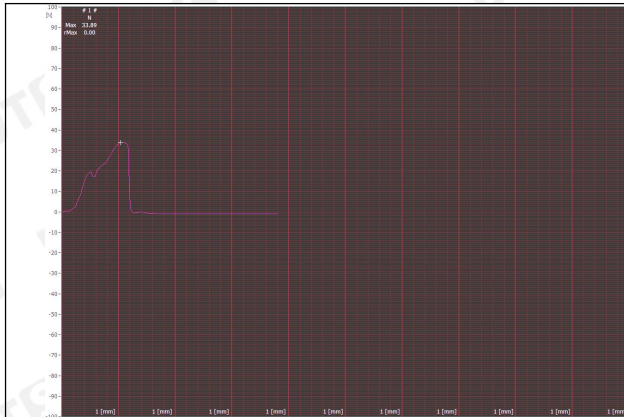
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手动插拔 3 次 ; Hand insertion/extraction 3times	手动插拔 3 次; Hand insertion/extraction 3times
	
测试后; After test	2PIN 主锁拔出力; Test curve-2PIN Primary lock extraction force

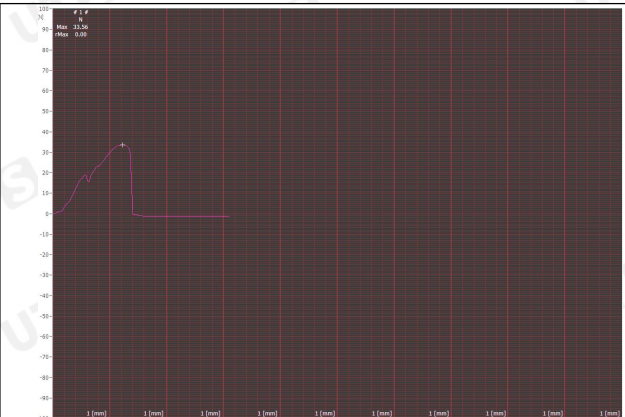
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8PIN 主锁拔出力;
Test curve-8PIN Primary lock extraction force



15PIN 主锁拔出力;
Test curve-15PIN Primary lock extraction force

.....报告结束/End of Report.....

本报告中结果仅作为科研、教学或内部质量控制之用。

Test results in this report are only used for scientific research, teaching and internal quality control.