

检 测 报 告

TEST REPORT

报告编号 (No.) :UTS23060026R64 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 : TG20 壳体的气候负荷试验;
TG20 Climate load of 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

Page 1 of 12

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江苏省优联检测技术有限公司

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检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64

报告日期 (Report Date) : 2023/08/25

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

2023/07/05-2023/08/07

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
高温试验箱 High temperature test chamber	R-1-074	2023/11/24
高低温交变湿热试验箱 High and low temperature alternating humidity and heat test chamber	R-1-129	2023/08/24
高低温环境箱 High and low temperature environment box	R-1-006	2023/11/24
恒温恒湿箱 Constant temperature and humidity box	R-1-010	2023/11/24
绝缘电阻测试仪 Insulation resistance tester	R-1-134	2023/11/29
滚筒跌落试验机 Roller drop tester	LX-1050B	2024/03/02

4、测试条件/Test Condition

P0.1 目检;

P0.1 Visual inspection;

P0.3 绝缘电阻;

P0.3 Insulation resistance;

所有相邻触点之间的绝缘电阻;

Insulation resistance between all adjacent contacts;

直流测试电压: 500V;

DC test voltage: 500V;

测试周期:60s;

Read cycle time: 60s;

绝缘电阻:>100MΩ;

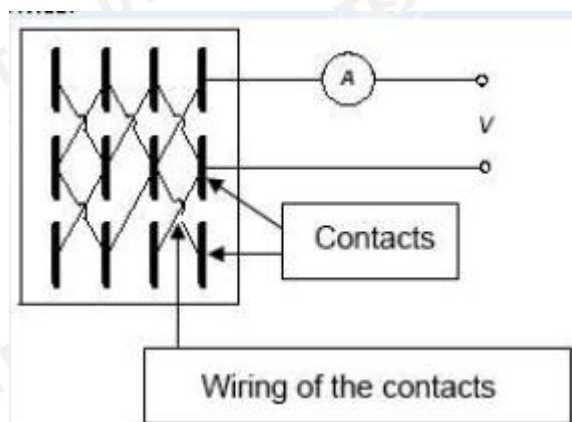
Insulation resistance: >100MΩ;

检 测 报 告

TEST REPORT

报告编号 (No.) : UTS23060026R64

报告日期 (Report Date) : 2023/08/25



绝缘电阻测量设置 Insulation resistance measurement setup

L20.1 高温贮存;

L20.1 Aging in dry heat;

持续时间: 120h / Duration: 120 h;

温度: 125°C / Temperature: 125°C;

L20.2 恒定湿热;

L20.2 Aging in damp heat, constant;

持续时间: 10d / Duration: 10 d;

温度: 40°C / Temperature: 40°C;

相对湿度: 95%RH / Relative humidity: 95%RH;

试验 L20.2 得出结果后, 最早在试验结束 30 分钟后, 最迟 60 分钟需对绝缘电阻进行测量;

The insulation resistance must be measured at the earliest 30 min and at the latest 60 min after conclusion of test L20.2;

P0.3 绝缘电阻;

P0.3 Insulation resistance;

P0.1 目检;

P0.1 Visual inspection;

L20.3 低温存放;

L20.3 Low-temperature aging;

持续时间: 48h / Duration: 48 h;

温度: -40°C / Temperature: -40°C;

检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64

报告日期 (Report Date) : 2023/08/25

L20.4 在-20℃下插拔;

L20.4 Extracting and inserting at -20℃;

P0.1 目检;

P0.1 Visual inspection;

L20.5 高温存放;

L20.5 Aging in dry heat;

持续时间: 48h / Duration: 48 h;

温度:80℃ /Temperature: 80℃;

L6.1 未插上插头状态的跌落试验;

L6.1 Drop test in the unplugged state;

转速;Rotational speed	3rpm
跌落区域;Drop area	厚度≥5mm 的钢板;Thickness of the steel plate ≥ 5mm
滚筒上下底板高度;Height of the upper and lower bottom plates of the drum	1.2m
旋转次数;Number of rotations	30 次;30 times

P0.1 目检;

P0.1 Visual inspection;

5、测试结果/Test Result(s)

外观检查 (测试前) Visual inspection before test

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

检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64 报告日期 (Report Date) : 2023/08/25

绝缘电阻 (测试前) Insulation resistance before test

样品编号 Sample No.		结果 Result(GΩ)	判定依据 Judgment Basis	判定 Determine
2pin	1#	34.24	>100MΩ	符合 PASS
	2#	46.85		符合 PASS
	3#	22.80		符合 PASS
	4#	91.40		符合 PASS
	5#	48.75		符合 PASS
8pin	1#	40.82		符合 PASS
	2#	63.05		符合 PASS
	3#	35.17		符合 PASS
	4#	40.66		符合 PASS
	5#	53.63		符合 PASS
15pin	1#	39.68		符合 PASS
	2#	58.21		符合 PASS
	3#	25.65		符合 PASS
	4#	43.46		符合 PASS
	5#	44.61		符合 PASS

检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64

报告日期 (Report Date) : 2023/08/25

绝缘电阻 (测试后) Insulation resistance after test

样品编号 Sample No.		结果 Result(GΩ)	判定依据 Judgment Basis	判定 Determine
2pin	1#	94.73	>100MΩ	符合 PASS
	2#	156.9		符合 PASS
	3#	31.86		符合 PASS
	4#	83.22		符合 PASS
	5#	24.67		符合 PASS
8pin	1#	30.17		符合 PASS
	2#	63.33		符合 PASS
	3#	23.97		符合 PASS
	4#	33.28		符合 PASS
	5#	51.85		符合 PASS
15pin	1#	113.9		符合 PASS
	2#	55.08		符合 PASS
	3#	61.61		符合 PASS
	4#	30.90		符合 PASS
	5#	28.84		符合 PASS

外观检查 (恒定湿热测试后) Visual inspection after aging in damp heat, constant test

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

检 测 报 告
TEST REPORT

报告编号 (No.) : UTS23060026R64

报告日期 (Report Date) : 2023/08/25

外观检查 (低温插拔测试后) Visual inspection after low temperature inserting test

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

滚筒跌落测试 Drop test

样品编号 Sample No.		测试前二级锁状 secondary lock status before test	测试后二级锁状态 secondary lock status after test	测试后外观检 Visual inspection after test	判定依据 Judgment Basis	判定 Determine
2pin	1#-5#	Close	Close	没有结构损伤 no structural damage	跌落试验不能引起任何对试样功能造成影响的损坏, 不能打开锁。/The drop test must cause no function-impairing damage to the DUTs. Locks must not open.	符合 PASS
8pin	1#-5#	Close	Close			符合 PASS
15pin	1#-5#	Close	Close			符合 PASS

外观检查 (测试后) Visual inspection after test

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

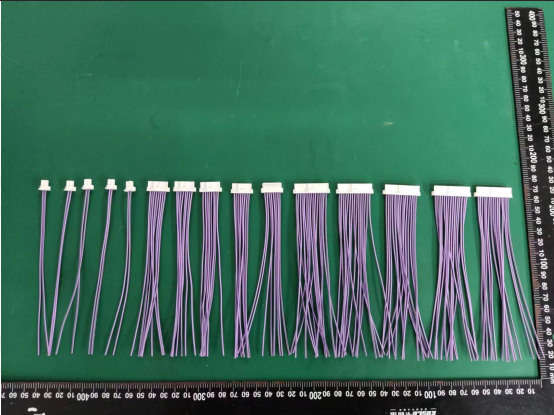
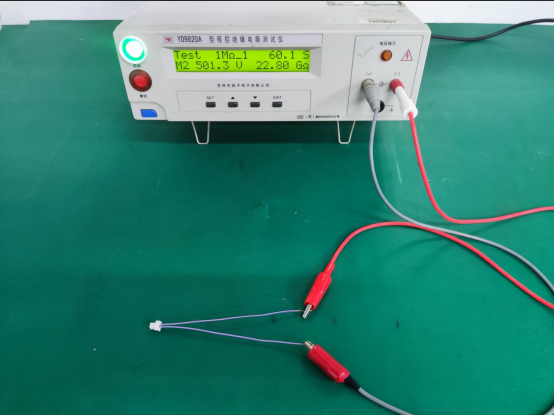
备注/Remark: 判定限值依 VW 75174 LV-214 2018。/The prescribed limit(s) is/are according to VW 75174 LV-214 2018.

检测报告 TEST REPORT

报告编号 (No.) : UTS23060026R64

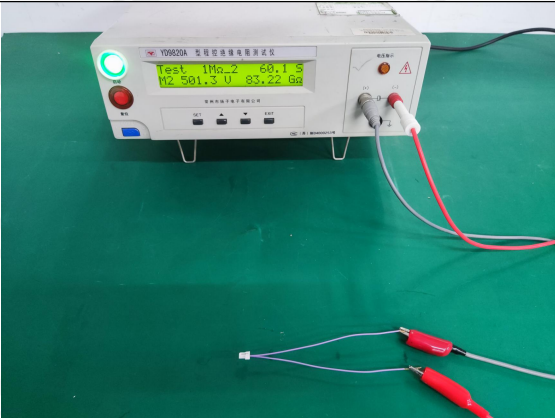
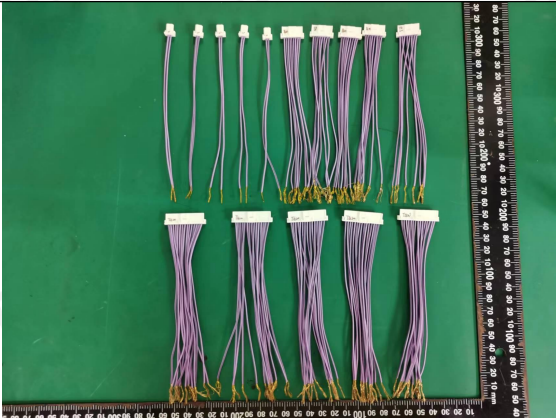
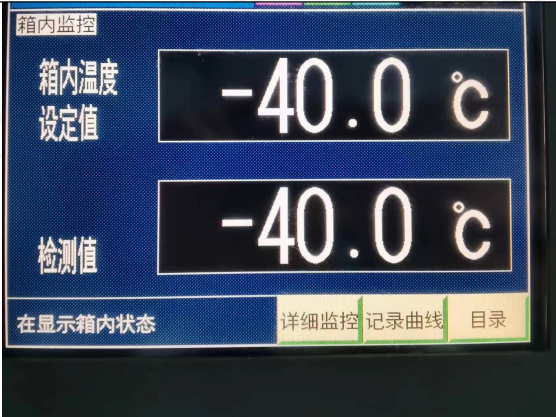
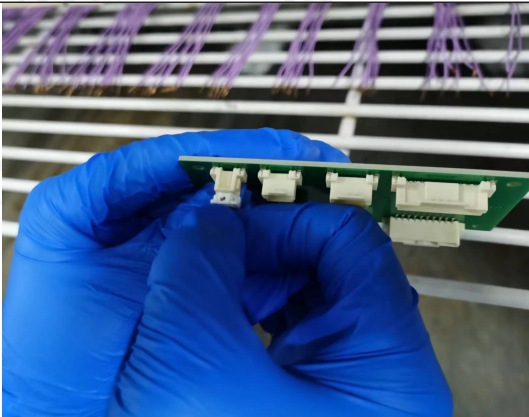
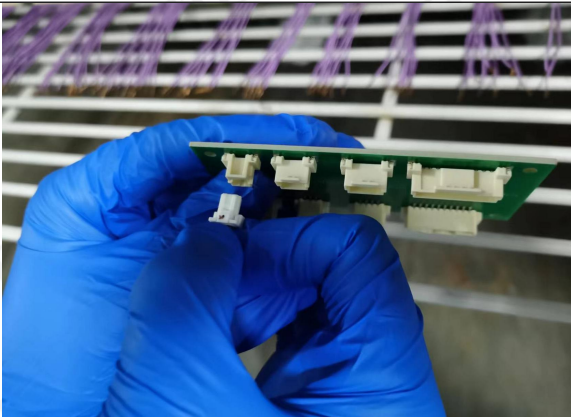
报告日期 (Report Date) : 2023/08/25

6、测试照片/Test Photo(s)

	
测试前外观检查;Visual inspection before test	绝缘电阻(测试前); Insulation resistance before test
	
高温贮存 125°C;Aging in dry heat 125°C	温度界面;Temperature interface
	
恒定湿热;Constant damp heat test	温湿度界面;Temperature and humidity interface

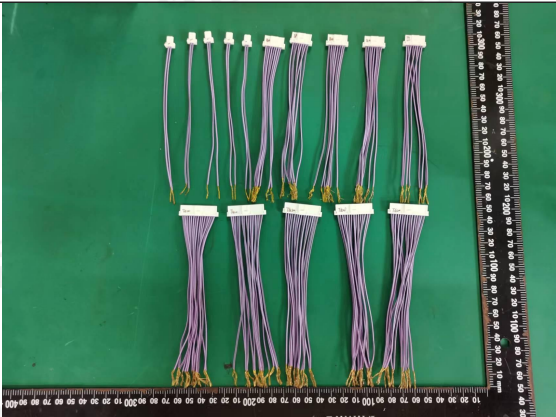
检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64 报告日期 (Report Date) : 2023/08/25

	
绝缘电阻 (测试后) ; Insulation resistance after test	外观检查;Visual inspection
	
低温存放-40℃;Low-temperature aging -40℃	温度界面-40℃;Temperature interface -40℃
	
-20℃下拔插功能检查(2pin);Removal and plug function check at-20℃(2pin)	

检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64 报告日期 (Report Date) : 2023/08/25

	
-20℃拔插功能检查(8pin);Removal and plug function check at -20℃(8pin)	
	
-20℃拔插功能检查(15pin);Removal and plug function check at -20℃(15pin)	
	
温度界面-20℃; Temperature interface -20℃	外观检查;Visual inspection

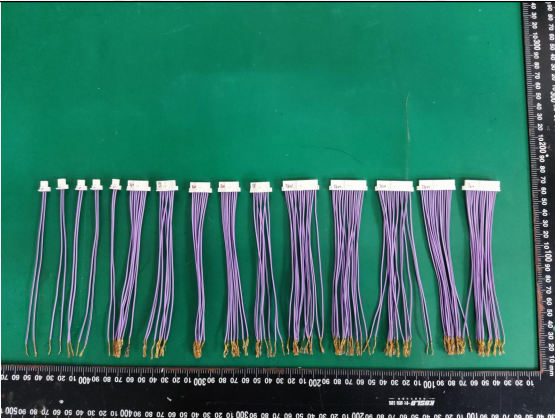
检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64 报告日期 (Report Date) : 2023/08/25

	
高温存放 80℃;Aging in dry heat 80℃	温度界面 80℃; Temperature interface 80℃
滚筒跌落测试;Drop test	
	
测试中-15pin ; During test -15pin	测试中-8pin; During test -8pin
	
测试中-2pin ; During test- 2pin	测试中; During test

检 测 报 告
TEST REPORT

报告编号 (No.) :UTS23060026R64 报告日期 (Report Date) : 2023/08/25

	/
测试后外观检查; Visual inspection after test	/

.....报告结束/End of Report.....

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