



规格编号Spec.No.: SK-CHAIN-1724(2X2X0.20)
样品来源Sample From: 技术部
温湿度Temp.&Hum: 23°C / 56%

客户编号Customer No.: /
样品描述Sample Desc: 2P*0.2,PVC
参考标准Refer Standard: Specification

序号	项目Item	规格Spec	测量值Record	结果Result	设备Apparatus	备注
1	结构检验Structure Test					
1.1	导体Conductor					
	芯线(Cores)	2P	2P	Pass	Visual	/
	材料Material	Tinned Copper	Tinned Copper	Pass	Visual	/
	面积(Area)	0.2mm ²	0.2mm ²	Pass	Visual	/
	导体根数Number of strands	41+1Tinsel	41+1Tinsel	Pass	Visual	/
	单根线径Diameter Per.Root	0.080±0.003mm	0.081mm	Pass	Micrometer	P03308
	绞合外径Stranded Dia.	0.71±0.03mm	0.71mm	Pass	Projector	T07010
1.2	绝缘Insulation					
	材料Material	PP	PP	Pass	Visual	/
	厚度 Nom.Thickness	≥0.200mm	0.221mm	Pass	Projector	T07010
	外径Diameter	1.15±0.10mm	1.15mm	Pass	Micrometer	P03308
1.3	对绞Twist					
	对绞Twist	2C	2C	Pass	Visual	/
1.4	成缆Cores Assembly					
	成缆 Cores Assembly	2P+Filler	2P+Filler	Pass	Visual	/
1.5	填充Filler					
	填充Filler	Cotton yarn	Cotton yarn	Pass	Visual	/
1.6	无纺布Non Woven					
	重叠率(Overlapping)	25%	30%	Pass	Ruler	/
1.7	编织Braid					
	材料Material	Tinned Copper	Tinned Copper	Pass	Visual	/
	编织密度Calculation of Coverage	≥85%	86.4%	Pass	Ruler	/
1.8	外被Jacket					
	材料Material	PVC	PVC	Pass	Visual	/
	最薄厚度Min.Thickness	≥0.61mm	0.76mm	Pass	Projector	T07010
	厚度Nom.Thickness	≥0.76mm	0.88mm	Pass	Projector	T07010
	外径Diameter	6.20±0.40mm	6.27mm	Pass	Micrometer	P03308
2	电气性能Electrical Characteristic					
	导体电阻Conductor Resistance at 20°C	≤94.2Ω/Km	85.8Ω/Km	Pass	Ohm measuring machine	T05079
	耐电压AC Dielectric Voltage Withstand Test	2.0+0.2/-0KV/min	No Crack	Pass	Withstand voltage	T05042



测试报告 Test Report

报告编号 Report No. : QN81483

报告日期 Report Date: 2018-08-15

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温湿度 Temp.&Hum: 23°C / 56%

客户编号 Customer No.: /
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序号	项目 Item	规格 Spec	测量值 Record	结果 Result	设备 Apparatus	备注
3	护套物理性能 Jacket Physical Properties					
	老化前 Unaged					
	抗张强度 Tensile Strength	≥10.3Mpa	11.85Mpa	Pass	Tensile measuring machine	T03106
	伸长率 Elongation	≥100%	136%	Pass	Tensile measuring machine	T03106
	老化后 Aged: 113±2°C x 168hours					
	抗张强度 Tensile Strength	≥75%	12.44Mpa	Pass	Chamber&Tensile measuring machine	T03106&&T09064
	抗张强度残率 Minimum percent of unaged values of tensile strength		105%			
	伸长率 Elongation	≥65%	122%	Pass	Chamber&Tensile measuring machine	T03106&&T09064
	伸长残率 Minimum percent of unaged values of elongation		90%			
	加热变形试验 Deformation 121±2°C x 1hours x 2kg	≤50%	17, 13, 15%	Pass	Heat distortion	T09046
	冷弯曲试验 Cold Bend -20±2°C x 4hours	No Crack	No Crack	Pass	Chamber	T10004
	热冲击试验 Heat Shock 121±2°C x 1hours	No Crack	No Crack	Pass	Chamber	T09045
	燃烧试验 Flammability	VW-1	Pass	Pass	Flame test machine	T01004
	拖链试验 towline test	≥1000万次	见附页	Pass	DZ-405F5wire U-shaped repeated	
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结果 Conclusion: 符合规格 (Meets Specification)

不符合规格 (Does not Meet Specification)

测试员 Tester: 欧阳勇

审批 Approval: 张萍



测试项目 Test Item : **拖链试验 Drag Chain test**

规格编号 Spec. No. : SK-CHAIN-1724(2X2X0.20)

客户编号 Customer No. : /

样品来源 Sample From : 技术部

温湿度 Temp.&Humidity : 22°C / 60%

样品描述 Sample Describe : 2P*0.2,PVC

测试参考标准 Test Standards:

机器人 TUV 2577-08.16 robot cable revision 8.4

客户要求 Customer requirements



测试主要设备 Test Main Equipments

- 1, LX-T108拖链电缆试验机 LX-T108 towline cable testing machine
- 2, DZ-405F5电线U字形反复弯折试验机 DZ-405F5 wire U-shaped repeated bending test machine



测试步骤 Test Procedure:

- 1, LX-T108拖链电缆试验机, 取样长度6米 LX-T108 towline cable testing machine, sampling length of 6 meters
- 2, DZ-405F5电线U字形反复弯折试验机, 取样长度3米 DZ-405F5 wire U-shaped repeated bending test machine, sampling length of 3 meters
- 3, 将试样两端的导体分别串联对接, 构成一个串联不可重复的回路 The conductor at both ends of the conductor were connected in series, constitute a series of non-repeatable loop.
- 4, 用规定的夹具夹住试样一端, 连接导体电阻测试仪(数据采集器)上 Hold one end of the specimen with a specified clamp and connect it to a conductor resistance tester (data collector)
- 5, 调节速度, 设定弯曲次数, 接通电源, 开始测试. Adjust the speed, set the number of bending, turn on the power, start testing.

测试条件&要求 Test Requirement: R=48mm(7.5D), Rate:2m/s, Travel: 1.0m

- 1, 弯曲次数 Number of Bends : 10,000,000 次
- 2, 施加 2.0kv 电压, 试样不能被击穿. All the specimens without breakdown under No crack
- 3, 最大导体电阻 Max. conductor resistance : ≤94.2 Ω/km.
- 4, 外观 Exterior : No crack

测试结果 Test Result:

- 1, 弯曲次数 Number of Bends : 13,576,880 次
- 2, 耐压期间, 试样是否被击穿 The specimens breakdown for 30 minutes or not : No crack
- 3, 导体电阻是 Conductor resistance : 86.32 Ω/km.
- 4, 外观 Exterior : No crack

结果判定 Judge Result:

符合规格 (Meets Specification)

不符合规格 (Does not Meet Specification)

测试员 Tester: 欧阳勇

核准 Approval: 张萍