



规格编号Spec.No.: SK-CHAIN-1723(4GX0.75)  
样品来源Sample From: 技术部  
温湿度Temp.&Hum: 23°C / 64%

客户编号Customer No.: /  
样品描述Sample Desc: 4C\*0.75,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 &设备编号
<b>1</b>	<b>结构检验Structure Test</b>					
<b>1.1</b>	<b>导体Conductor</b>					
	芯线(Cores)	4C	4C	Pass	Visual	/
	材料Material	Bare Copper	Bare Copper	Pass	Visual	/
	面积(Area)	0.75mm <sup>2</sup>	0.75mm <sup>2</sup>	Pass	Visual	/
	导体根数Number of strands	96	96	Pass	Visual	/
	单根线径Diameter Per.Root	0.100±0.004mm	0.100mm	Pass	Micrometer	P03308
	绞合外径Stranded Dia.	1.13±0.03mm	1.12mm	Pass	Projector	T07010
<b>1.2</b>	<b>绝缘Insulation</b>					
	材料Material	PP	PP	Pass	Visual	/
	厚度 Nom.Thickness	≥0.300mm	0.312mm	Pass	Projector	T07010
	外径Diameter	1.75±0.15mm	1.77mm	Pass	Micrometer	P03308
<b>1.3</b>	<b>成缆Cores Assembly</b>					
	成缆 Cores Assembly	4C	4C	Pass	Visual	/
<b>1.4</b>	<b>填充Filler</b>					
	填充Filler	Cotton yarn	Cotton yarn	Pass	Visual	/
<b>1.5</b>	<b>包带 Wrapping Tape</b>					
	重叠率(Coverage )	100%	100%	Pass	Visual	/
<b>1.6</b>	<b>外被Jacket</b>					
	材料Material	PVC	PVC	Pass	Visual	/
	最薄厚度Min.Thickness	≥0.61mm	0.81mm	Pass	Projector	T07010
	厚度Nom.Thickness	≥0.76mm	0.96mm	Pass	Projector	T07010
	外径Diameter	6.40±0.30mm	6.50mm	Pass	Micrometer	P03308
<b>2</b>	<b>电气性能Electrical Characteristic</b>					
	导体电阻Conductor Resistance at 20°C	≤26.0Ω/Km	24.7Ω/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



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3	<b>护套物理性能 Jacket Physical Properties</b>					
	老化前 Unaged					
	抗张强度 Tensile Strength	≥10.3Mpa	12.56Mpa	Pass	Tensile measuring machine	T03106
	伸长率 Elongation	≥100%	157%	Pass	Tensile measuring machine	T03106
	老化后 Aged: 113±2°C x 168hours					
	抗张强度 Tensile Strength	≥75%	12.71Mpa	Pass	Chamber&Tensile measuring machine	T03106&&T09064
	抗张强度残率 Minimun percent of unaged values of tensile strength		101%			
	伸长率 Elongation	≥65%	131%	Pass	Chamber&Tensile measuring machine	T03106&&T09064
	伸长残率 Minimun percent of unaged values of elongation		83%			
	加热变形试验 Deformation 121±2°C x 1hours x 2kg	≤50%	13, 13, 15%	Pass	Heat distortion Temperature	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	≥1000万次	<a href="#">见附页</a>	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-1723(4GX0.75)**

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样品来源 Sample From : **技术部**

温湿度 Temp.&Humidity : **22°C / 60%**

样品描述 Sample Describe : **4C\*0.75,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 : ≤26.0 Ω/km.
- 4, 外观Exterior : No crack

**测试结果 Test Result:**

- 1, 弯曲次数Number of Bends : 11,056,138 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 : 25.9 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