



规格编号 Spec.No.: CAT5E 4X22AWG-(UL21205)  
4X22AWG,6.50)-CHAIN-  
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: 4\*22AWG,PVC  
参考标准 Refer Standard: 规格书

序号	项目 Item	规格 Spec	测量值 Record	结果 Result	设备 Apparatus	备注
<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	Tinned Copper	Tinned Copper	Pass	Visual	/
	面积(AWG)	22AWG	22AWG	Pass	Visual	/
	导体根数 Number of strands	7 Strands	7 Strands	Pass	Visual	/
	单根线径 Diameter Per.Root	0.250±0.008mm	0.254mm	Pass	Micrometer	P03308
	绞合外径 Stranded Dia.	0.75±0.03mm	0.76mm	Pass	Projector	T07010
<b>1.2</b>	<b>绝缘 Insulation</b>					
	材料 Material	PE	PE	Pass	Visual	/
	厚度 Nom.Thickness	0.380mm	0.391mm	Pass	Projector	T07010
	外径 Diameter	1.50±0.15mm	1.51mm	Pass	Micrometer	P03308
<b>1.3</b>	<b>成缆 Cores Assembly</b>					
	成缆 Cores Assembly	4C+Filler	4C+Filler	Pass	Visual	/
<b>1.4</b>	<b>填充 Filler</b>					
	填充 Filler	PE	PE	Pass	Visual	/
<b>1.5</b>	<b>聚酯带 PET Tape</b>					
	重叠率(Overlapping)	25%	31%	Pass	Ruler	/
<b>1.6</b>	<b>内护层 Inner Jacket</b>					
	材料 Material	PVC	PVC	Pass	Visual	/
	外径 Diameter	4.10±0.20mm	4.15mm	Pass	Micrometer	P03308
<b>1.7</b>	<b>编织 Braid</b>					
	材料 Material	Tinned Copper	Tinned Copper	Pass	Visual	/
	编织密度 Calculation of Coverage	≥85%	85.0%	Pass	Ruler	/
<b>1.8</b>	<b>外被 Jacket</b>					
	材料 Material	PVC	PVC	Pass	Visual	/
	最薄厚度 Min.Thickness	≥0.61mm	0.84mm	Pass	Projector	T07010
	厚度 Nom.Thickness	≥0.76mm	0.92mm	Pass	Projector	T07010
	外径 Diameter	6.50±0.20mm	6.61mm	Pass	Micrometer	P03308
<b>2</b>	<b>电气性能 Electrical Characteristic</b>					
	导体电阻 Conductor Resistance at 20°C	≤59.4Ω/Km	56.3Ω/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
	特性阻抗 Characteristic Impedance	100±15Ω	<a href="#">Next page</a>	Pass	PNA	



# 测试报告 Test Report

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样品来源 Sample From:	4X22AWG,6.50)-CHAIN-	样品描述 Sample Desc:	4*22AWG,PVC
温湿度 Temp.&Hum:	技术部	参考标准 Refer Standard:	规格书
	23°C / 56%		

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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	11.43Mpa	Pass	Tensile measuring machine	T03106
	伸长率 Elongation	≥100%	195%	Pass	Tensile measuring machine	T03106
	老化后 Aged: 113±2°C x 168hours					
	抗张强度 Tensile Strength	≥70%	12.11Mpa	Pass	Chamber&Tensile measuring machine	T03106&&T09064
	抗张强度残率 Minimum percent of unaged values of tensile strength		106%			
	伸长率 Elongation	≥65%	154%	Pass	Chamber&Tensile measuring machine	T03106&&T09064
	伸长残率 Minimum percent of unaged values of elongation		79%			
	加热变形试验 Deformation 121±2°C x 1hours x 2kg	≤50%	27, 34, 33%	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
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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



# Electrical Characteristic Test Report

Cable Type :	CAT5E 4X22AWG-(UL21205 4X22AWG,6.50)-CHAIN-190249	Factory Number :	LTK-HZEW	Temperature :	20
Reel/Drum. Number :	EEB91203A035001	Length (Meter) :	10	Date :	2019-12-13
Agilent VNA E5062A		Operator :	GuoHM	Time :	10:56 AM

### Wrost Cord(s) Summary

Test Type	Limit	Frequency (MHz)	Measured (Cord(s))		Margin	Passed/Failed
Characteristic Impedance (Ohm)	100 ± 15	1~100	105.90	Pair 1	9.10	Passed
Attenuation (dB/10m)	2.1	1	1.57	Pair 1	0.53	Passed
Near End Cross-Talk (dB)	65	1	68.92	Pairs 1-2	3.92	Passed



