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中国认可
国际互认
检测
TESTING
CNAS L0207

报告编号
Reference No

CT17-03672-2

检测报告

Test Report

样品名称 Name of sample	fire alarm cable
样品型号 Type of sample	2C×0.75mm ²
委托方 Consigner	Zhejiang Tianjie Industrial CORP
试验类型 Kind of test	Commission Test



国家电线电缆质量监督检验中心

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China National Centre for Quality Supervision and Test of Electric Wire and Cable
Test Report

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Kind of test	Commission Test	Reference No.	CT17-03672-2		
Name of sample	fire alarm cable				
Type and Size	2C×0.75mm ²	Date of test	2017-06-14~2017-07-12		
Consigner	Name	Zhejiang Tianjie Industrial CORP			
	Address	Linglong Economic Development Zone, Lin an, Hangzhou China			
	Tel.	15306561001	P.C.	310000	Unit No. 310476
Manufacturer	Name	Zhejiang Tianjie Industrial CORP			
	Address	Linglong Economic Development Zone, Lin an, Hangzhou China			
	Tel.	15306561001	P.C.	310000	Unit No. 310476
Delivering mode	Supplied by consigner	Sample state at receiving	Normal	Receiving date	2017-06-02
Test standard	AS/NZS 3808:2000+A1:2002+A2:2004 Insulating and sheathing materials for electric cables				
Verdict standard	Same as the test standard.				
Conclusion	The items tested complied with the requirements of AS/NZS 3808:2000+A1:2002+A2:2004.				
Note	/				
Tested by	李娜 Li Na 	Checked by	杨立志 Yang Lizhi 	Approved by	毛阿兴 Mao Axing 
Date	2017.7.12	Date	2017.7.12	Date	2017.7.13



Type and size		2C×0.75mm ²		Reference.No.	CT17-03672-2	
No.	Test Items	Unit	Requirements	Test Results		Verdict
	Inspected core identification		/	red	black	N
1	INSULATION (V-90)					
1.1	Mechanical tests without ageing					
	--Tensile strength	MPa	≥12.5	18.3	17.4	P
	--Elongation at rupture	%	≥150	240	250	P
1.2	Mechanical tests after ageing in an air oven (115±2°C,504h)					
	--Tensile strength	MPa	/	18.2	18.0	N
	--Percentage of unaged value	%	≥75	99	103	P
	--Elongation at rupture	%	/	240	220	N
	--Percentage of unaged value	%	≥65	100	88	P
1.3	Compatibility test after ageing in an air oven(100±2°C, 240h)					
	--Tensile strength	MPa	/	18.1	17.5	N
	--Percentage of unaged value	%	≥75	99	101	P
	--Elongation at rupture	%	/	240	230	N
	--Percentage of unaged value	%	≥65	100	92	P
1.4	Loss of mass(115±2°C, 120h)					
	--Median loss of exposed	mg/cm ²	≤2.5	0.59	1.4	P
1.5	Pressure test at high temperature(90±2°C)					
	--Indentation	%	≤ 50	27	27	P
1.6	Heat shock test(150±3°C,1h)		No cracks	passed	passed	P
1.7	Exudation of plasticizer		No greasiness or droplets of liquid	passed		P
1.8	Electrical characteristics					

Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require verdict.

Type and size		2C×0.75mm ²		Reference.No.	CT17-03672-2	
No.	Test Items	Unit	Requirements	Test Results		Verdict
1.9	--insulation resistance constant (Ki) at 20°C	GΩ·m	≥40	1740	139	P
	--insulation resistance constant (Ki) at 90°C	GΩ·m	≥0.002	0.2	0.06	P
	-Average thickness	mm	/	0.6	0.6	N
	-Minimum thickness at any point	mm	/	0.54	0.58	N
2	OUTER SHEATH (5V-90)					
2.1	Mechanical tests without ageing					
	--Tensile strength	MPa	≥12.5	16.7		P
	--Elongation at rupture	%	≥150	330		P
2.2	Mechanical tests after ageing in an air oven (115±2°C,504h)					
	--Tensile strength	MPa	/	15.9		N
	--Percentage of unaged value	%	≥75	95		P
	--Elongation at rupture	%	/	340		N
	--Percentage of unaged value	%	≥65	103		P
2.3	Compatibility test after ageing in an air oven(100±2°C, 240h)					
	-- Tensile strength	MPa	/	16.9		N
	--Percentage of unaged value	%	≥75	101		P
	--Elongation at rupture	%	/	330		N
	--Percentage of unaged value	%	≥65	100		P
2.4	Loss of mass (115±2°C, 120h)					
	--Median loss of exposed surface	mg/cm ²	≤2.5	0.55		P

Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require verdict.

Type and size		2C×0.75mm ²		Reference.No.	CT17-03672-2
No.	Test Items	Unit	Requirements	Test Results	Verdict
2.5	Pressure test at high temperature(90±2°C)				
	--Indentation	%	≤ 50	28	P
2.6	Heat shock test(150±3°C,1h)		No cracks	passed	P
2.7	Exudation of plasticizer		No greasiness or droplets of liquid	passed	P
2.8	Thickness				
	-Average thickness	mm	/	1.3	N
	-Minimum thickness at any point	mm	/	1.26	N
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Note: "P" means this item does meet the requirement, "F" means this item does not meet the requirement, "N" means this item does not require verdict.

