PDL 2P PLUG HSG AND CAP HSG 3.96 NAT

1. INTRODUCTION

1.1 Purpose

Testing was performed on PDL 2P PLUG HSG AND CAP HSG 3.96 NAT to determine its conformance to the customer requirements.

1.2 Scope

This report covers the Glow Wire Test performance of PDL 2P PLUG HSG AND CAP HSG 3.96 NAT. Testing was performed at the Shanghai Electrical Components Test Laboratory between Apr.29 and Apr.30, 2014. The associated test number is TP-14-00698.

1.3 Conclusion

Based on the test results, all meet the requirement according to IEC 60335-1, 2004, and IEC 60695-2-11, 2000.

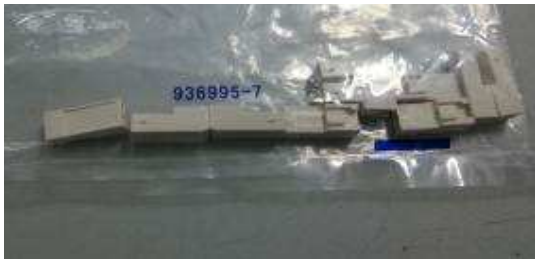
1.4 Test Specimens

Specimens with the following part numbers were used for test:

Test request No.	Sl no	Housing P/N	Position	Qty	Part Description	Material
TP-14-00698	1	2005247-1	2 Pos	10	PDL 2P PLUG HSG 3.96(GWT) NAT	PA66 (1573789-1)
	2	2005248-1	2 Pos	10	PDL 2P CAP HSG 3.96 F/H(GWT) NAT	

TP-14-00698 consist of each 10pcs Plug Housing samples and Cap housing samples for Sl No. 1, 2. See Fig 1, Fig 2.

Plug Housing (Fig.1)



Cap housing (Fig 2)

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1.5 Test Sequence

Test Item	Test Group (a)
	1
	Test Sequence(b)
Visual examination	1
Glow Wire Test	2
Sample Size	10x2

Note: a). Test group defined per customer requirement.
b). Numbers indicate sequence in which tests are performed.

1.6 Environmental Conditions

Unless otherwise stated, the following environmental conditions prevailed during testing:

Temperature: 15°C to 35°C
Relative Humidity: 25% to 75%

2. TEST PROCEDUES

2.1. Visual examination
All specimens were visually examined for evidence of physical damage detrimental to product performance (Visually inspected under a stereomicroscope, at a 10x magnification, with suitable illumination).
Test method: IEC 60512-1-1, Test 1a.

2.2. Glow wire Test
Thermal stabilization of specimens: 24 h at 15-35 °C and 45-75%RH.
Test condition: The extremity of the wire is positioned horizontally and brought into contact with the sample wit a force between 0.8 and 1.2N for a period of 30s. Test temperature: 750°C, Time of Glow tip application Ta: 30s
Requirements: No flame or Te-Ti≤2s.
Test Method: IEC 60335-1, 2004, and IEC 60695-2-11, 2000.

3. SUMMARY OF TESTING

3.1. Initial Examination of Product
All group specimens were visually examined and no evidence of physical damage detrimental to product performance was observed.

3.2. Glow wire Test
Glow wire test result see Tab.1, 2,

Group	Number of data points	Condition	Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
PDL 2P PLUG HSG 3.96 NAT (2005247-1)	10	Final (GWT 750°C)	A1	0	0	0	no	no	Meet spec
			A2	0	0	0	no	no	Meet spec
			A3	0	0	0	no	no	Meet spec
			A4	0	0	0	no	no	Meet spec
			A5	0	0	0	no	no	Meet spec
			A6	0	0	0	no	no	Meet spec
			A7	0	0	0	no	no	Meet spec
			A8	0	0	0	no	no	Meet spec
			A9	0	0	0	no	no	Meet spec
			A10	0	0	0	no	no	Meet spec

Tab 1

Group	Number of data points	Condition	Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
PDL 2P CAP HSG 3.96 NAT (2005248-1)	10	Final (GWT 750°C)	A1	0	0	0	no	no	Meet spec
			A2	0	0	0	no	no	Meet spec
			A3	0	0	0	no	no	Meet spec
			A4	0	0	0	no	no	Meet spec
			A5	0	0	0	no	no	Meet spec
			A6	0	0	0	no	no	Meet spec
			A7	0	0	0	no	no	Meet spec
			A8	0	0	0	no	no	Meet spec
			A9	0	0	0	no	no	Meet spec
			A10	0	0	0	no	no	Meet spec

Tab 2

Samples picture after test, see Fig 3, Fig 4.

Fig 3

Fig 4

4. CALIBRATION

4.1 Calibration Statement

All equipment containing a calibration number is calibrated and traceable through TE Connectivity (TE).

No.	Test Item	Equipment Code	Equipment application	Calibration Effective Period	Serial No.
1	Examination of Product	/	Visual observation	/	/
2	Glow Wire Test	Glow wire Tester	Glow Wire 750Cdegree Test	2015/05/17	LAB-T012

5. VALIDATION

Requested by:
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