

Standard Timer Housing

1. INTRODUCTION

1.1 Purpose

This is validation test. Testing was performed on Plates of the Standard Timer housings to determine its conformance related to the Glow Wire requirements of from IEC 60695-2-11 and IEC 60335-1.

1.2 Scope

This report covers material performance of Standard Timer housings. Testing was performed at TE Connectivity Shanghai Electrical Test Laboratory (Building ID 554) between 2020-07-13 and 2020-07-15. The associated test number is TP-20-01306.

1.3 Conclusion

Based on the test results, all samples meet the requirement according to customer requirement. The testing results are only responsible for the specimens tested.

1.4 Test Specimens

Specimens received on 2020-07-13 with the following part numbers were used for test:

Test Group	Part No.	Description	Qty. (pcs)	Comments
1	2364739-2	STD TIM HOUSING MKII 2POS	9	/
	2364737-5	5POS STD TIMER HSG WITH EXT.LOCKING	9	/
	1-2364737-1	11POS STANDARD TIMER HOUSING	9	/
	1862006-1	STD PW TIMER CONTACT	162	Terminals assembled into the housings 2364739-2, 2364737-5 and 1-2364737-1. Short wires (~50 mm)
2	2364739-2	STD TIM HOUSING MKII 2POS	9	/
	2364737-5	5POS STD TIMER HSG WITH EXT.LOCKING	9	/
	1-2364737-1	11POS STANDARD TIMER HOUSING	9	/
	1862006-1	STD PW TIMER CONTACT	162	Terminals assembled into the housings 2364739-2, 2364737-5 and 1-2364737-1. Short wires (~50 mm)

1.5 Test Sequence

Test Item	Test Group	
	1	2
	Test Sequence	
Glow Wire Test (750 °C)	1	
Glow Wire Test (850 °C)		1

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 testing environmental conditions prevailed during testing:

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

2. TEST PROCEDURES AND REQUIREMENTS

2.1 Glow Wire Test (750 °C)

Specimens, wooden board and wrapping tissue shall be preconditioned under the condition of 25 °C and 50 % RH for 24 h. The glow-wire shall be positioned horizontally and brought into contact with the specimen with a force between 0.95 N ± 0.10 N. Penetration depth shall be less than 7 mm and wrapping tissue shall be positioned at (200 ± 5) mm below the place where the glow-wire shall be applied to the specimen. Completely assembled unmated specimen shall be tested under the temperature of 750 °C, duration of glow-wire applied is 30 seconds.

Requirement: No flame or $t_E - t_i \leq 2$ s.

Test Method: IEC 60695-2-11-2014 & IEC 60335-1-2013

2.2 Glow Wire Test (850 °C)

Specimens, wooden board and wrapping tissue shall be preconditioned under the condition of 25 °C and 50 % RH for 24 h. The glow-wire shall be positioned horizontally and brought into contact with the specimen with a force between 0.95 N ± 0.10 N. Penetration depth shall be less than 7 mm and wrapping tissue shall be positioned at (200 ± 5) mm below the place where the glow-wire shall be applied to the specimen. Completely assembled unmated specimen shall be tested under the temperature of 850 °C, duration of glow-wire applied is 30 seconds.

Requirement: No flame or $t_E \leq t_A + 30$ s and no ignition of wrap tissue.

Test Method: IEC 60695-2-11-2014

3. SUMMARY OF TEST

Group	SN	Description	Test Item	Qty (pc s)	Test Result				Requirement	Conclusion	
					Max	Min	Avg	Unit			
1	1	2364739-2	Glow Wire Test	9	GWEPT: 750 (No flame)				/	No flame or $t_E - t_i \leq 2$ s	Meet Spec.
	1	2364737-5	Glow Wire Test	9	GWEPT: 750 (No flame)				/	No flame or $t_E - t_i \leq 2$ s	Meet Spec.
	1	1-2364737-1	Glow Wire Test	9	GWEPT: 750 (No flame)				/	No flame or $t_E - t_i \leq 2$ s	Meet Spec.
2	1	2364739-2	Glow Wire Test	9	GWEPT: 850 (No flame or $t_E \leq t_A + 30$ s)				/	No flame or $t_E \leq t_A + 30$ s and no ignition of wrap tissue.	Meet Spec.
	1	2364737-5	Glow Wire Test	9	GWEPT: 850 (No flame or $t_E \leq t_A + 30$ s)				/	No flame or $t_E \leq t_A + 30$ s and no ignition of wrap tissue.	Meet Spec.
	1	1-2364737-1	Glow Wire Test	9	GWEPT: 850 (No flame or $t_E \leq t_A + 30$ s)				/	No flame or $t_E \leq t_A + 30$ s and no ignition of wrap tissue.	Meet Spec.

4. VALIDATION

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2020-07-01

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2022-04-29

TE Connectivity Shanghai Electrical Components Test Lab.

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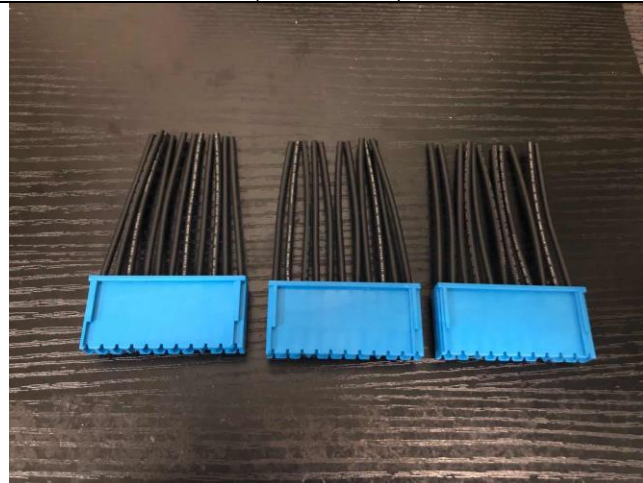
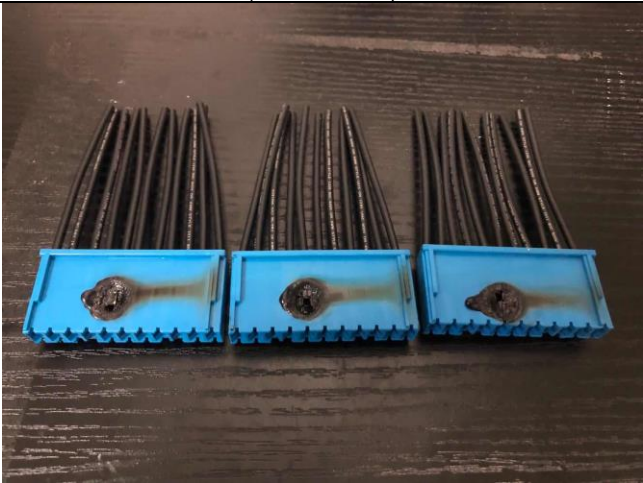
2022-04-29

Test Manager

TE Connectivity Shanghai Electrical Components Test Lab.

Appendix

Table 1 Test pictures

	
<p>Visual examination picture of pre-test (1-2364737-1)</p>	<p>Visual examination picture of post-test at 750 °C (1-2364737-1)</p>
	
<p>Visual examination picture of pre-test (1-2364737-1)</p>	<p>Visual examination picture of pre-test at 850 °C (1-2364737-1)</p>

Note: These pictures show the points of tip application used for all PNs tested.

----- **END OF REPORT** -----