

## GWT Test Report Of PDL Plug and Cap Housing

### 1. INTRODUCTION

Test was performed on PDL plug and cap housing. The purpose of this test is to evaluate the performance of PDL plug and cap housing. Test was performed at the TE Shanghai Electrical Components Test Laboratory on DEC15, 2014. The test file number for this testing is TP-14-02581. Testing was performed on below products to determine them can meet no flame or  $T_e - T_i \leq 2s$  at 750°C per IEC60335-1 standards.

### 2. SPECIMENS

We got the samples from sample room.

Description	P/N	Part Revision
PDL plug 3.96mm housing 4p (D/R)	1-368575-1	A
PDL cap 3.96mm housing 2p	2005248-9	A
PDL plug 6.5mm housing 3p	368570-9	A
PDL cap 3.96mm housing 3p(P/M)	2005250-1	A
PDL plug 3.96mm housing 3p	368571-1	A
PDL plug 3.96mm housing 6p(D/R)	368576-1	A
PDL plug 3.96mm housing 12p(T/R)	2005255-1	A

### 3. TEST CONDITIONS

Unless otherwise specified, all the test shall be performed in any combination of the following test conditions.

Condition	The extremity of the wire is positioned horizontally and brought into contact with the sample with a force between 0.85 and 1.05N for a period of 30s. Test temperature: 750°C, time of Glow tip application $T_a$ :30s
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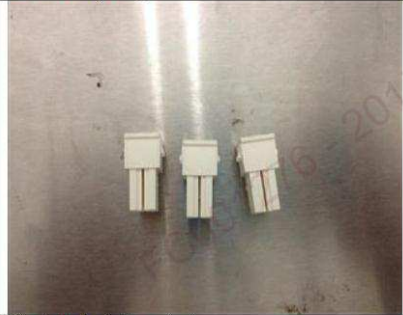

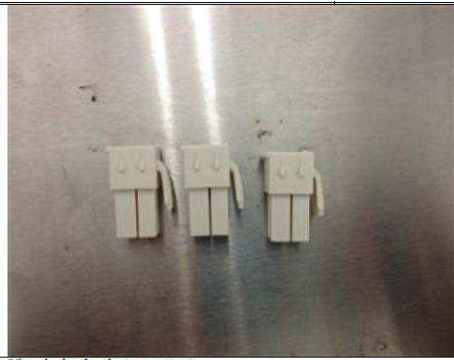



### 4. TEST Group

Follow below testing, we have finished 4 parts.

Test Flow Description:

1. Specimens were preconditioned under the condition of 25°C/50%RH for 24h.
2. Execute visual check before test, and take picture.
3. Fix the sample to the tester. Edit the test procedure according to test standard and run glow wire test chamber.
4. Execute visual check before test, and take picture after test.
5. Test condition: The extremity of the wire is positioned horizontally and brought into contact with the sample with a force between 0.85 and 1.05N for a period of 30s.

### 5. TEST RESULT

Description of pre-test: Normal		Description of post-test: Damage	
Visual check photo pre-test		Visual check post-test	
			
Visual check photo pre-test		Visual check post-test	
			
Visual check photo pre-test		Visual check post-test	
			
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Part no.	Test Item	N	Condition	Test Result							
	Examination			No physical damage occurred.							
				Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment	
1-368575-1	Glow Wire Test	9	Initial								
			Final	A	0	0	0	no	no	Meet spec	
				A	0	0	0	no	no	Meet spec	
				A	0	0	0	no	no	Meet spec	
				B	0	0	0	no	no	Meet spec	
				B	0	0	0	no	no	Meet spec	
				B	0	0	0	no	no	Meet spec	
				C	0	0	0	no	no	Meet spec	
				C	0	0	0	no	no	Meet spec	
C	0	0	0	no	no	Meet spec					



Visual check photo pre-test      Visual check post-test



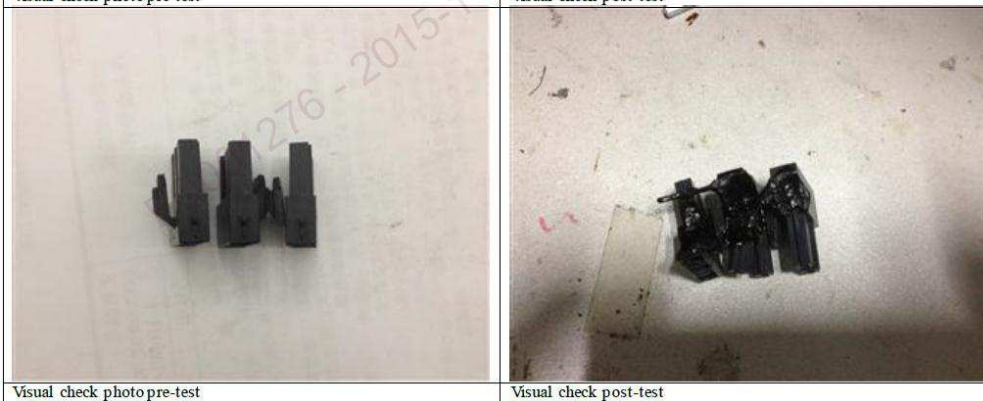
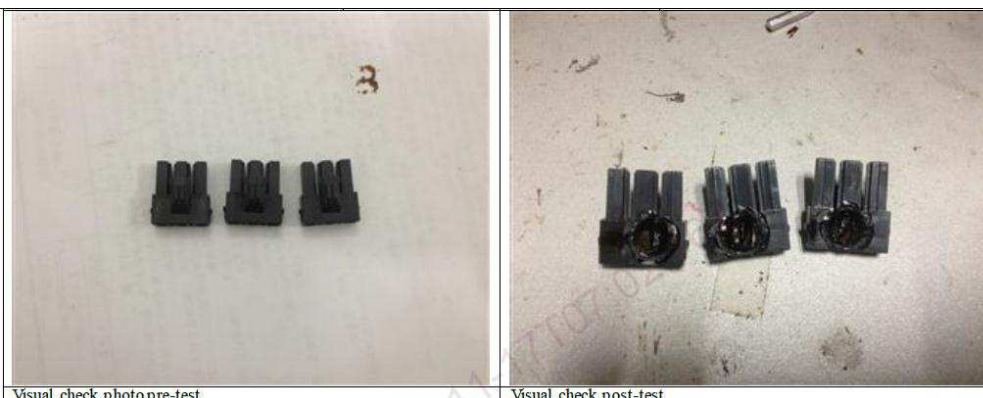
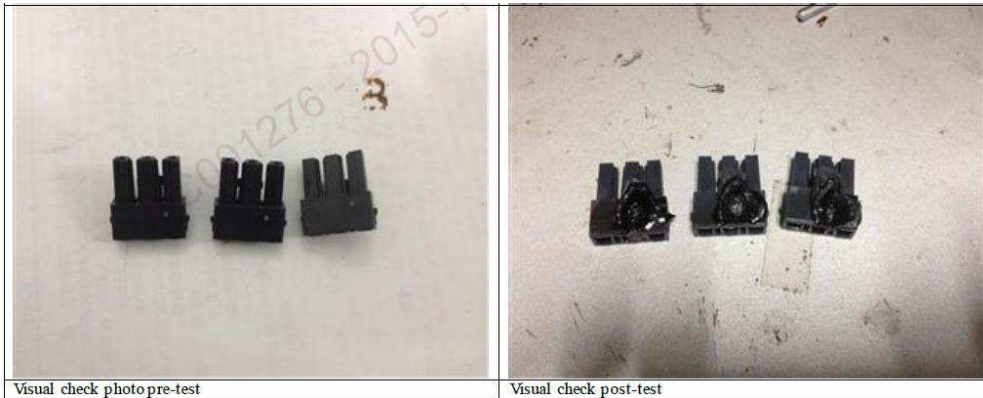
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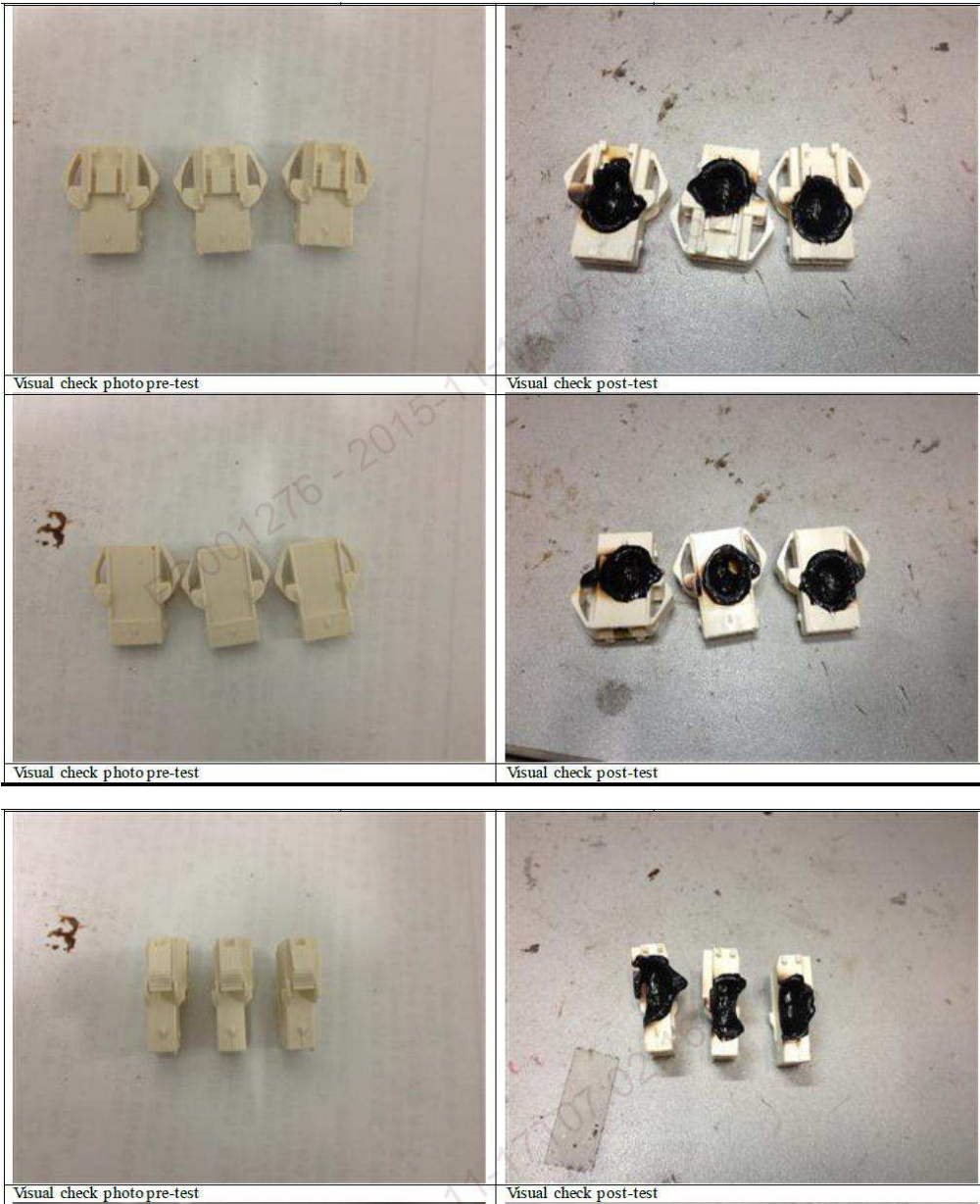
Visual check photo pre-test      Visual check post-test

Part no.	Test Item	N	Condition	Test Result						
	Examination		Initial	No physical damage occurred.						
				Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
2005248-9	Glow Wire Test	9	Final	A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec





Part no.	Test Item	N	Condition	Test Result						
	Examination		9	Initial	No physical damage occurred.					
368570-9	Glow Wire Test	9	Final	Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec



Part no.	Test Item	N	Condition	Test Result						
	Examination		9	Initial	No physical damage occurred.					
				Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
2005250-1	Glow Wire Test	9	Final	A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec

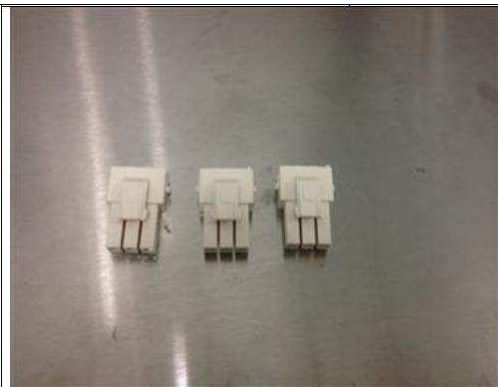




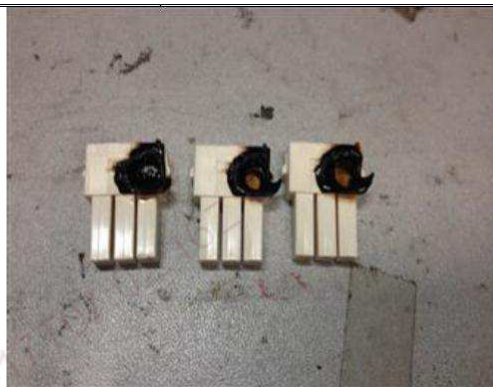
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Visual check post-test



Visual check photo pre-test



Visual check post-test

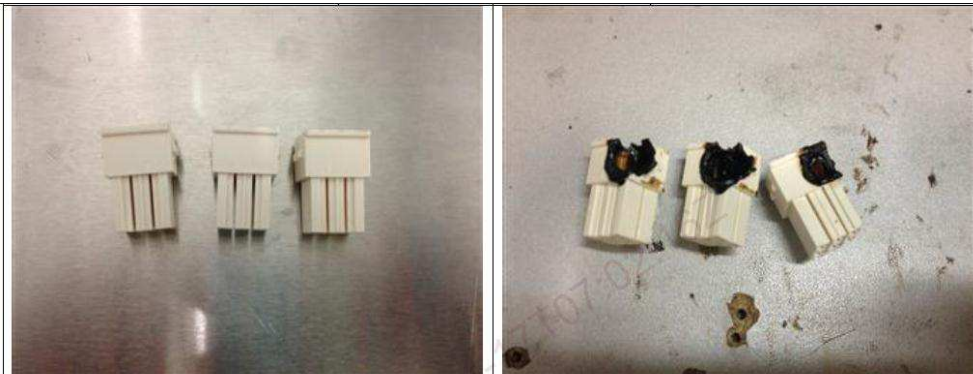


Visual check photo pre-test



Visual check post-test

Part no.	Test Item	N	Condition	Test Result						
	Examination			No physical damage occurred.						
			Initial	Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
368571-1	Glow Wire Test	9	Final	A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec



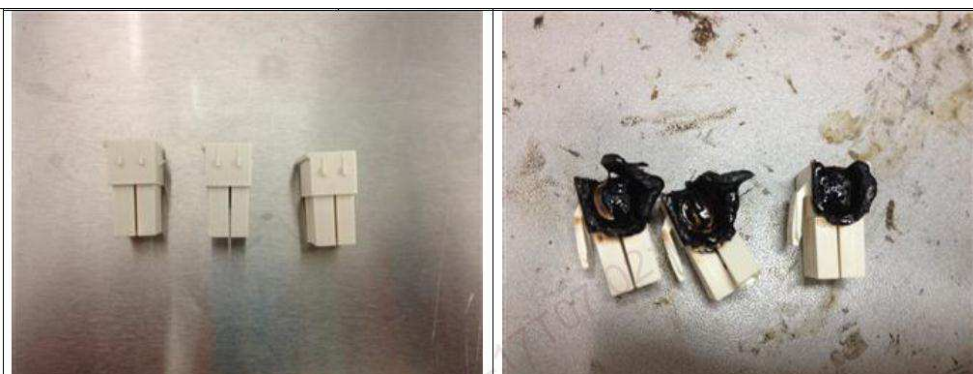
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Visual check post-test



Visual check photo pre-test

Visual check post-test



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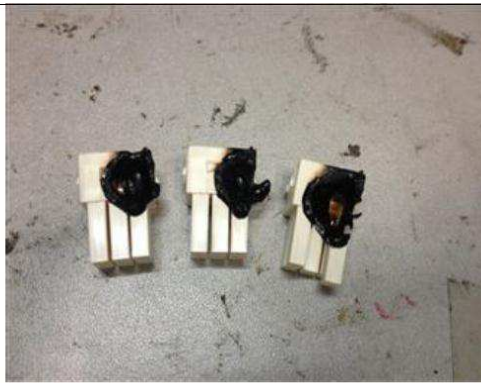
Visual check post-test

Part no.	Test Item	N	Condition	Test Result						
	Examination		Initial	No physical damage occurred.						
				Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
368576-1	Glow Wire Test	9	Initial	A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
			Final	B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec

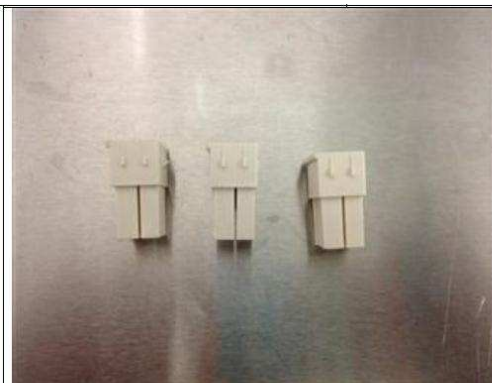




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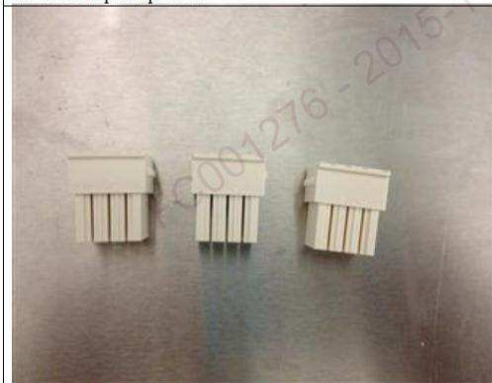
Visual check post-test



Visual check photo pre-test



Visual check post-test



Visual check photo pre-test



Visual check post-test

Part no.	Test Item	N	Condition	Test Result						
	Examination		Initial	No physical damage occurred.						
				Point of glow tip application	Ti (sec)	Te (sec)	Flame Height (mm)	Drops (yes/no)	Light tissue paper burns (yes/no)	Judgment
2005255-1	Glow Wire Test	9	Final	A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				A	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				B	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec
				C	0	0	0	no	no	Meet spec



## 6. Conclusion

The seven parts all could meet no flame or Te-Ti $\leq$  2s at 750°C per IEC60335-1 standards.