# PDL 2P PLUG 3.96MM

## 1. INTRODUCTION

### 1.1 Purpose

Testing was performed on PDL 2P PLUG 3.96MM to determine its conformance to the customer requirements.

### 1.2 Scope

This report covers the Glow Wire End Products Test performance of PDL 2P PLUG 3.96MM. Testing was performed at the Shanghai Electrical Components Test Laboratory on Nov.19 2015. The associated test number is TP-15-02881.

### 1.3 Conclusion

Based on the test results, all samples meet the requirement according to IEC 60335-1, 2013.

### 1.4 Test Specimens

Specimens with the following part numbers were used for test:

| Test request No. | Housing P/N | Position | Qty | Part Description | Material |
|---|---|---|---|---|---|
| TP-15-02818 | 2005247-6 | 2 pos | 9 pcs | PDL 2P PLUG 3.96MM | 1573789-1 |

### 1.5 Test Sequence

| Test Item | Test Group (a) |
|---|---|
| | 1 |
| | Test Sequence(b) |
| Visual examination | 1 |
| Glow Wire End Product 750℃ Test | 2 |
| Sample Size | 9 pcs |

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℃ to 35℃
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 End Product Test
Thermal stabilization of specimens: 24 h at (15-35) ℃ and (45-75) %RH.
Test condition: The extremity of the wire is positioned horizontally and brought into contact with the sample with a force between 0.95±0.1N for a period of 30s. Test temperature: 750℃, Time of Glow tip application Ta : 30s
Requirements: No flame or Te-Ti≤2s.
Test Method: IEC 60335-1, 2013 and IEC 60695-2-11, 2014.

## 3. SUMMARY OF TESTING

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

3.2. Glow Wire End Product Test
Glow wire end product test results see Table 1.

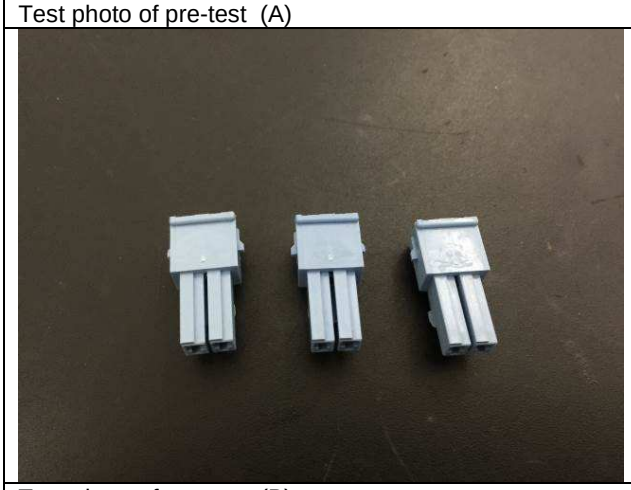
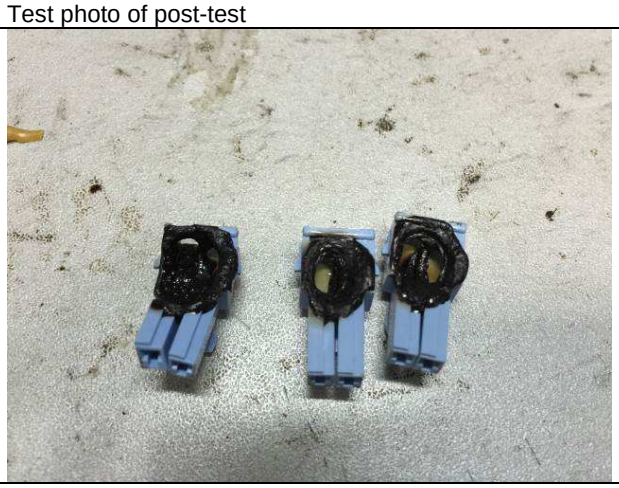
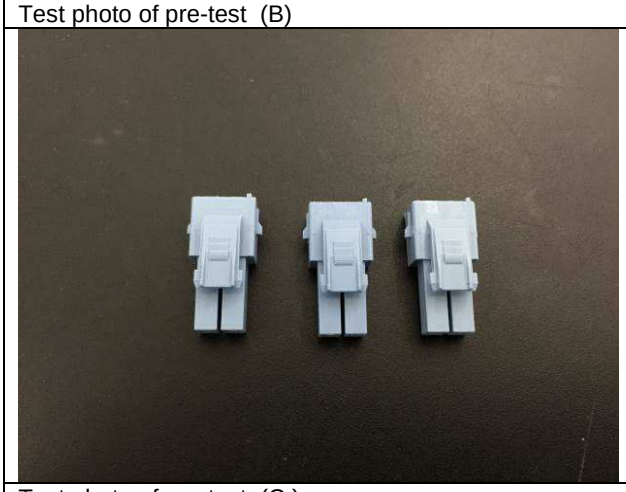
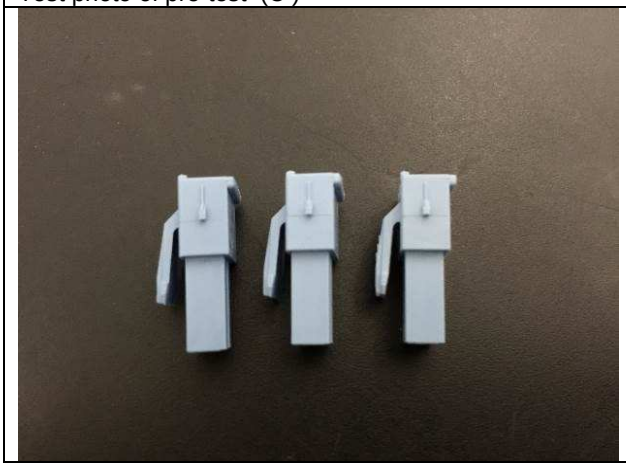
Test 1: 2005247-6 PDL 2P PLUG 3.96MM

Table 1

| Test Samples | 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 |
|---|---|---|---|---|---|---|---|---|---|
| 2005247-6 | 9 pcs | Final (GWEPT 750℃) | A1 | 0 | 0 | 0 | no | no | Meet spec |
| | | | A2 | 0 | 0 | 0 | no | no | Meet spec |
| | | | A3 | 0 | 0 | 0 | no | no | Meet spec |
| | | | B1 | 0 | 0 | 0 | no | no | Meet spec |
| | | | B2 | 0 | 0 | 0 | no | no | Meet spec |
| | | | B3 | 0 | 0 | 0 | no | no | Meet spec |
| | | | C1 | 0 | 0 | 0 | no | no | Meet spec |
| | | | C2 | 0 | 0 | 0 | no | no | Meet spec |
| | | | C3 | 0 | 0 | 0 | no | no | Meet spec |

**Sample Pictures:**

Test 1: 2005247-6  PDL 2P PLUG 3.96MM

| Description of pre-test: Normal | Description of post-test: Damage |
|---|---|
| Test photo of pre-test  (A) | Test photo of post-test |
|  |  |
| Test photo of pre-test  (B) | Test photo of post-test |
|  |  |
| Test photo of pre-test  (C ) | Test photo of post-test |
|  |  |

## 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 End Product Test | GW-V | Glow Wire Tester | 2015-12-19 | E-00118 |

## 5. VALIDATION

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