# **TEST SUMMARY**

## **HEAVY DUTY S-300 TEST**

#### 1. SCOPE

to compare cables subjected to random weld splattering in a manufacturing application.

#### 2. PROCEDURE

molex

To better compare the behavior of two different cables, we have positioned not only one cable (as required in the S-300 standard procedure) but we have changed the test layout as follow: Seven cables of 10" (254mm) in length positioned adjacent forming a portion of 4" (100mm) wide shall be subjected to 10 minutes of random weld spatter at a height of 6" (152 mm) away from welding plate.

In this case the weld splatter remains over the bundle making the test harsher.

The weld spatter shall not burn through cable jacket exposing wires.

Acceptance criteria: test is not passed if short circuits occur between conductors or between conductors and shield (if present).

#### 3. PURPOSE OF TEST

To evaluate cables coming from two different supplier

1302100079

#### 4. SAMPLE TO BE TESTED

- (a) Molex K05-4
- (b) Molex K05-4 1302100079

Supplier "A" manufactured by Flamar (a Molex Company)

### Sample before test

| Sample belore test |                                |             |             |           |             |                            |                               |  |
|--------------------|--------------------------------|-------------|-------------|-----------|-------------|----------------------------|-------------------------------|--|
|                    |                                |             |             |           |             |                            |                               |  |
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| REVISION:          | ECM INFORMATION:               | TITLE:      | <u>.</u>    |           |             |                            | SHEET No.                     |  |
| •                  | <u>EC No:</u> 614070           |             | HE          | AVY DU    | TY S-300    | TEST - K05-4               | 4 . ( 4                       |  |
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# **MOLEX** TEST SUMMARY

#### Sample during test:



Sample after test:



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| Α                | <u>EC No:</u> 614070<br>DATE: 2019/04/03 |              | HEAVY DUTY S-300 TEST - K05-4 |                       |                           |              |                |  |
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| 13               | 02100079                                 | PS           | 000                           | DPIAZZALUNGA          | ASCARPELLINI              | ASCA         | RPELLINI       |  |
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| <b>MOLEX</b> TEST SUMMARY  |                                      |  |                      |                          |                                   |  |  |
|--|--------------------------------------|--|----------------------|--------------------------|-----------------------------------|--|--|
|  | K05-4 Supplie                        | r "A"  |                      | K05-4 Flama              | ar                                |  |  |
|  |                                      |  |                      |                          |                                   |  |  |
|  |                                      |  |                      |                          |                                   |  |  |
| <ul> <li>5. RESULTS FROM PROCEDURE         <ul> <li>(a) Molex K05-4</li> <li>1302100079</li> <li>Supplier "A": weld splatter did not adhere to cable, only superficial imprints. No short circuit detected. Cable jacket become much dirtier than Flamar cable (at the same test time)</li> <li>(b) Molex K05-4</li> <li>1302100079</li> <li>manufactured by Flamar (a Molex Company): weld splatter did not adhere to cable, only superficial imprints. No short circuit detected.</li> </ul> </li> </ul> |                                      |  |                      |                          |                                   |  |  |
| REVISION:  | ECM INFORMATION:<br>EC No: 614070    | TITLE:<br>HE                                 | AVY DUTY S-300       | ) TEST - K05-4           | SHEET No.<br><b>4</b> of <b>4</b> |  |  |
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| 13   | 02100079                             | ITPE:         PART:           PS         000 | DPIAZZALUNGA         | ASCARPELLINI             | ASCARPELLINI                      |  |  |
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