

HEAVY DUTY S-300 TEST

1. SCOPE

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

2. PROCEDURE

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 splatter 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

4. SAMPLE TO BE TESTED

- | | | |
|-----------------|-------------------|--|
| (a) Molex K05-4 | 1302100079 | Supplier "A" |
| (b) Molex K05-4 | 1302100079 | manufactured by Flamar (a Molex Company) |

Sample before test



REVISION:	ECM INFORMATION:	TITLE:			SHEET No.
A	EC No: 614070 DATE: 2019/04/03	HEAVY DUTY S-300 TEST - K05-4			1 of 4
DOCUMENT NUMBER:	DOC TYPE:	DOC PART:	CREATED / REVISED BY:	CHECKED BY:	APPROVED BY:
1302100079	PS	000	DPIAZZALUNGA	ASCARPELLINI	ASCARPELLINI
TEMPLATE FILENAME: TEST_SUMMARY [SIZE_A4](V.3).DOC					

Sample during test:



Sample after test:



REVISION: A	ECM INFORMATION: EC No: 614070 DATE: 2019/04/03	TITLE: HEAVY DUTY S-300 TEST - K05-4	SHEET No. 2 of 4		
DOCUMENT NUMBER: 1302100079	DOC TYPE: PS	DOC PART: 000	CREATED / REVISED BY: DPIAZZALUNGA	CHECKED BY: ASCARPELLINI	APPROVED BY: ASCARPELLINI
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K05-4 Supplier "A"

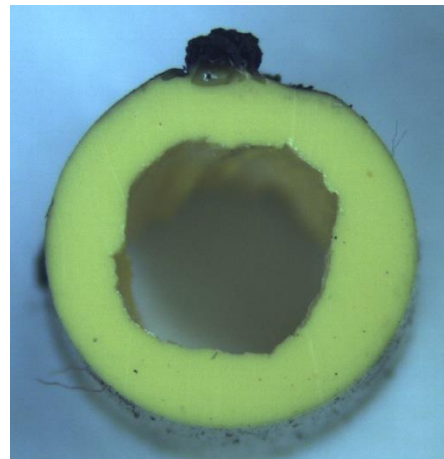
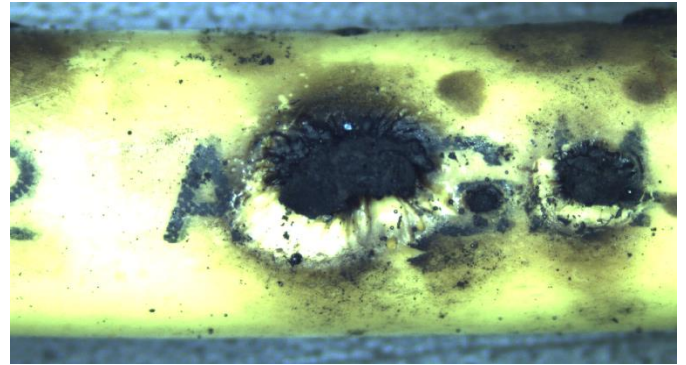
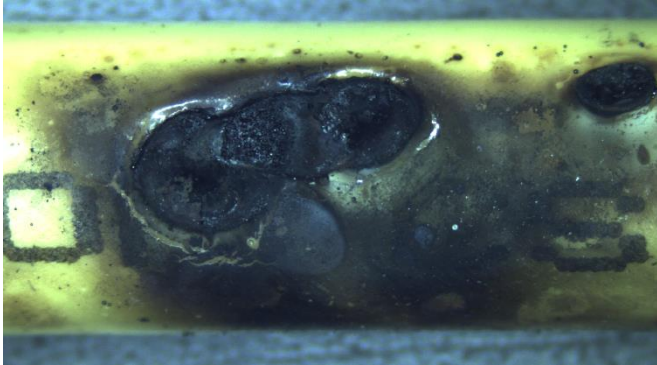
K05-4 Flamar

REVISION: A	ECM INFORMATION: EC No: 614070 DATE: 2019/04/03	TITLE: HEAVY DUTY S-300 TEST - K05-4	SHEET No. 3 of 4
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K05-4 Supplier "A"

K05-4 Flamar



5. RESULTS FROM PROCEDURE

- (a) Molex K05-4 **1302100079** 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)
- (b) Molex K05-4 **1302100079** manufactured by Flamar (a Molex Company):
 weld splatter did not adhere to cable, only superficial imprints.
 No short circuit detected.

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DOCUMENT NUMBER: 1302100079	DOC TYPE: PS	DOC PART: 000	CREATED / REVISED BY: DPIAZZALUNGA	CHECKED BY: ASCARPELLINI	APPROVED BY: ASCARPELLINI