

TEST REPORT No KA-167-17-016

17.03.2017

Product:	Multiflance
Name and address of the applicant:	HT Hi Tech Polymers Oy Hallitie 1, 32740 SASTAMALA, FINLAND
Land of the manufacturer:	FINLAND
Name and address of the manufacturer:	Same as applicant
Rating and principal characteristics:	IP65
Normative references:	EN 60529
Test method:	QMW 1308
Test scope:	Tests according to order 7.1-3/210-17, 23.02.2017
Trade mark (if any):	-
Model/type reference:	HTKC-36
Additional information:	Appendix 1

Marking of Multiflance



Tested by:

Harri Põldsalu
Expert


Inspecta
167

Testing

Date of receipt of test item: 03.03.2017

Date of performance of test: 14.- 15.03.2017

Test case verdicts

Test case does not apply to the test object: N.A
Test item does meet the requirement: P(pass)
Test item does not meet the requirement: F(fail)

1. General data

- ambient temperature: 18 °C
- relative humidity: 40 % to 60 % RH
- water temperature differ from that of the equipment < 5 K

1.2 Test program

Test program was agreed with customer order and carried out in accordance with EN 60529 and includes:

1. Visual examination
2. Degree of protection (IP65) by enclosure .
3. Protection against solid foreign objects IP6X
4. Protection against water IPX5
5. Visual examination

1.3 Uncertainty of measurement:

1. The temperature measurements – ± 1 °C
2. The humidity measurements - $\pm 3\%$

1.4 Test equipment

Equipment	Manufacturer	Type
Dust chamber	ESPEC	EDC27 NoECSP01004
Water jet hose nozzle	Elektrikontrollikeskus	nozzle Ø 6,3 mm

2. Tests

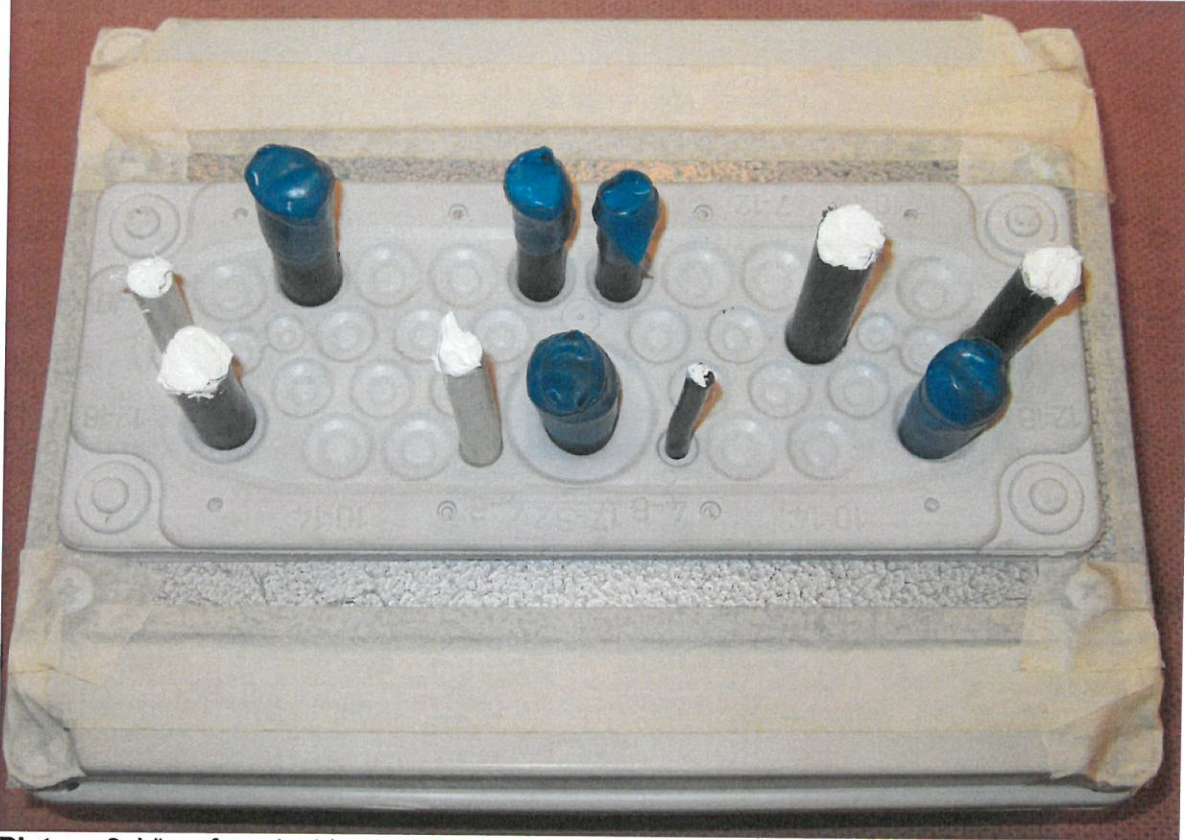
- 2.1 Verification degree of protection enclosure (EN 60529)
 - 2.1.1 Verification degree of protection second characteristic numeral
Protection against water jets IPX5 the enclosure from any direction
 - 2.1.2 Verification degree of protection first characteristic numeral.
Protection against solid foreign objects (dust-protected) IP6X
The test was conducted in a dust chamber that was capable of maintaining the talcum powder in suspension. The amount of talcum powder 2 kg/m³. The test duration was 4 hours. Visual examination after water test.

3.Summary of test results EN 60529

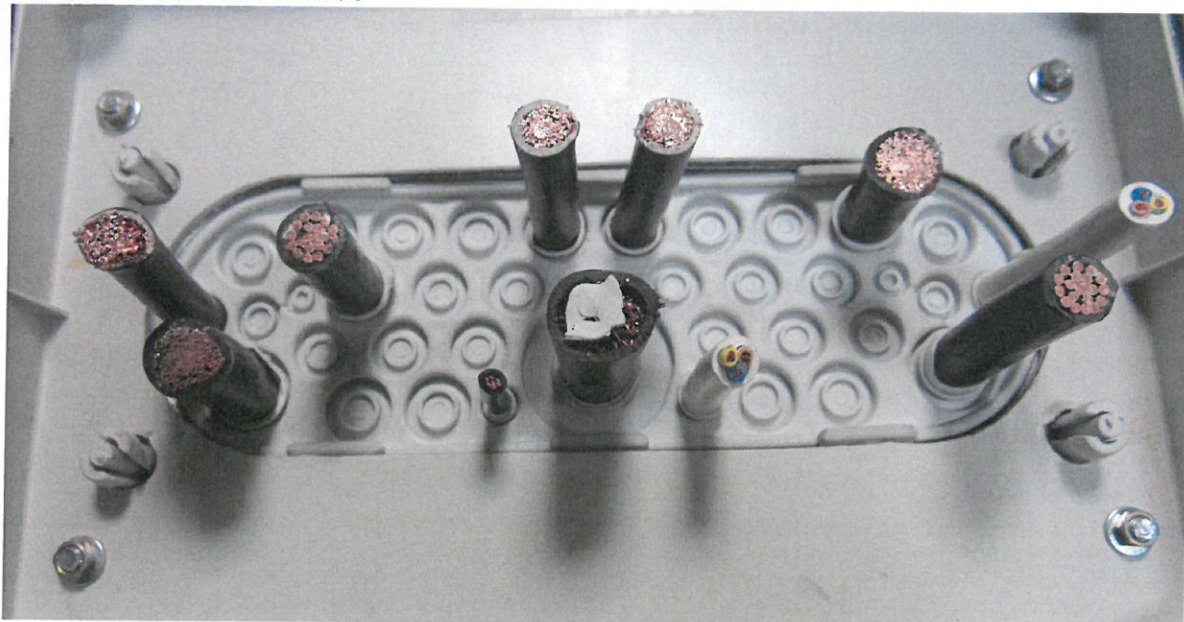
Verification degree of protection enclosure EN 60529 with multiflance			
Clause	Requirement Test	Result - Remark	Verdict
5	The first identification number IP6X	Tested	P
5.1 tab.1 12.3	Protection against access to hazardous parts IP6X	Tested Access probe Ø 1.0 mm not enter	P
5.1 tab.2	Protection against solid foreign objects	Test time 4 h. Results: Talcum powder does not enter through the flange and its confirmation See picture 5 - 8	P
6	Second identification number IPX5	IPX5	P
14.2.5 14.3	Test for second characteristic numeral Protection against water jets IPX5 against the enclosure from any direction	Water jet hose nozzle Ø 6,3 mm Distance 2,5 m to 3 m, time 3 min, Water flow rate 12,5 l/min ±5% Results: Water does not enter through the flange and its confirmation. See picture 3,4	P

Additional information

Picture 1. Test set up of multiflange with wires in testing box



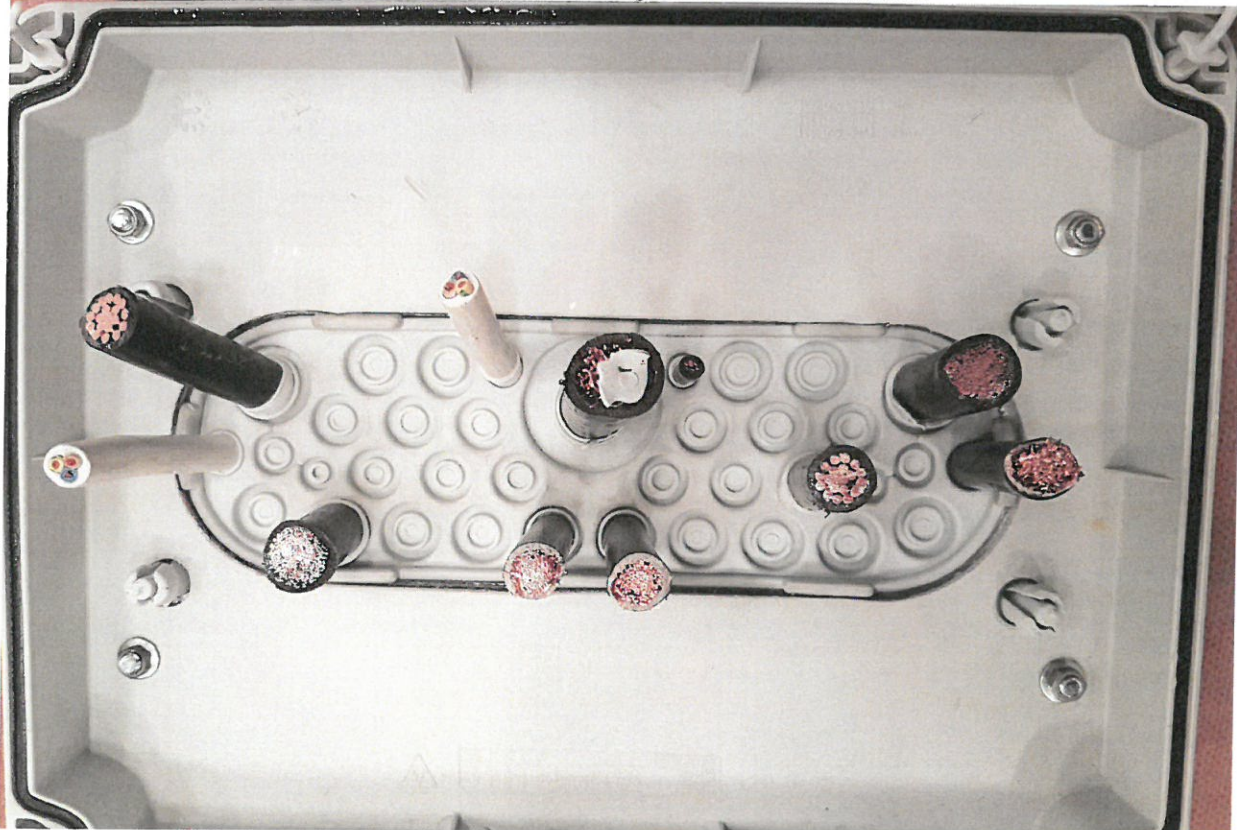
Picture 2. View from inside



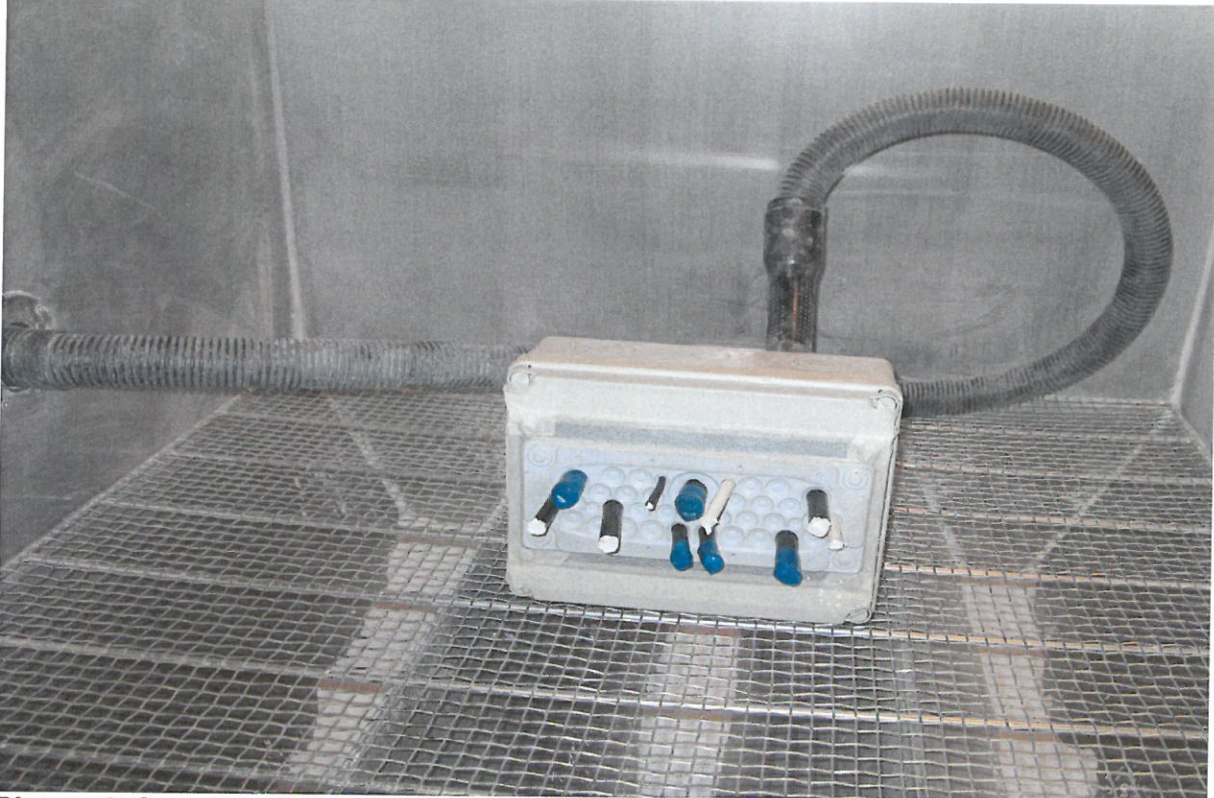
Picture 3. Test set up of HTKC-36 IPX5.



Picture 4. Water does not enter through the flange and its confirmation



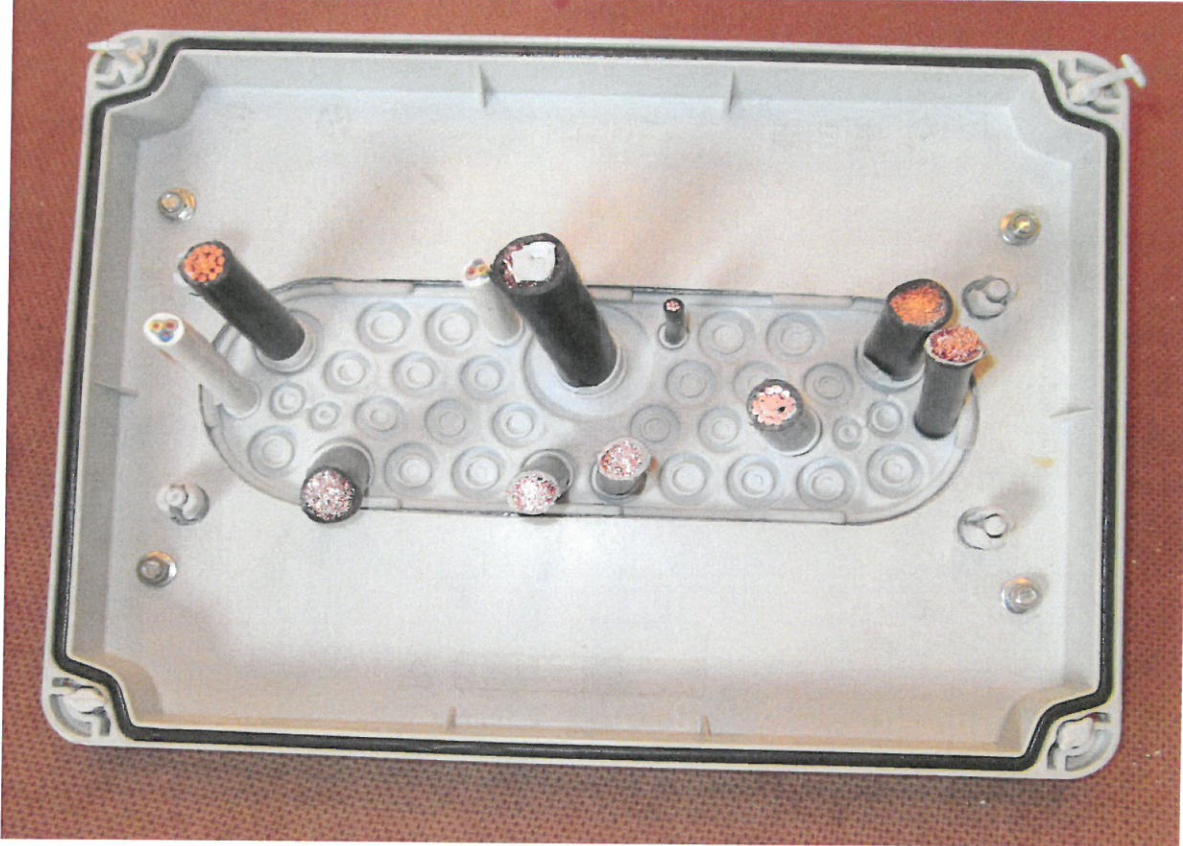
Picture 5. Test set up of HTKC-36 IP6X



Picture 6. Samples HTKC-36 after test IP6X



Picture 7. Talcum powder does not enter through the flange and its confirmation



Picture 8. Talcum powder does not enter the housing

