
Test report No: 55 0003 10, Vers. 1
Manufacturer: HIGH TECH PRODUCTS S.r.l.
Via Grazia Deledda, 20
I-24040 Lallio (BG)
EUT description : Connector
Model: Family DIN 43650/A and /B and /C



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TEST REPORT

N°. 55 0003 10, Vers. 1

**Tests carried out in accordance with these follow requirements
EN 60529 (1991-10) + EN60529 corr. (1993-05)**

issued by

TÜV Rheinland Italia S.r.l. - Via Gavardina Trav.II, 42 I-25010 Ponte S. Marco (BS)

1. General information

- | | |
|---|--|
| 1.0. Equipment under test : | Connector to cabling out |
| 1.1. Trade mark : | HTP |
| 1.2. Model : | DIN 43650/A and /B and /C |
| 1.3. Manufacturer's name and address : | HIGH TECH PRODUCTS S.r.l.
Via Grazia Deledda, 20
I-24040 Lallio (BG) |
| 1.4. Date of receipt of the test object : | 2009-02-06 |
| 1.5. Date of performance tests : | 2009-02-11 |

The test results and observations indicated in this test report refer exclusively to the samples tested. It is not permitted to transfer the results to other systems or configurations.

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2. Test sequence and results:

The customer has requested the following test sequences:

2.1 Test sequence

Description of test	Standard reference	Performance criteria observed	Test results
IP6X (Category 1 enclosure)	EN 60529 (1991-10) + EN60529 corr. (1993-05) ref. §13.6.2	A	PASS
IPX7	EN 60529 (1991-10) + EN60529 corr. (1993-05) ref. §14.2.7	A	PASS

2.2 Summary of performance criteria

A = The protection is satisfactory because no deposit of dust and water are observable inside the enclosure at the end of the tests.

2.3 Remarks to the test

After the tests we have verified that the enclosure can be marked as IP67 in according with the indication of the par. 4 of the EN 60529.

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3.0 **Schlußbescheinigung** **Statement of conformity**

Ergebnisse von den Prüfungen und den Kommentaren bezüglich des Ausganges sehen.

Dieser Prüfbericht umfasst die Seiten 1 bis 5.

Dieser Prüfbericht darf nur vom Auftraggeber und nur in vollem Wortlaut vervielfältigt und weitergegeben werden. Eine auszugsweise Vervielfältigung und Veröffentlichung des Prüfberichtes ist nur nach schriftlicher Genehmigung des Prüflaboratoriums zulässig.

See each measurement results step below for concerning result.

The Test Report comprises pages 1 to 5

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I-Ponte San Marco (BS), 2010-01-14

A handwritten signature in black ink that reads "Francesco Barbierato".

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Annex 1

Test protocols		
Mode of operation:	Equipment placed in the test chambers in horizontal position. The EUT was tested as complete system comprise cable connection like to a real installation under Customer's specifications.	
Requirements for IP6X test:	The dust test was conducted with depression, according to 13.4 of the EN 60529. Duration of test 8 hours	
Requirements for IPX7 test :	The EUT was immersed into the water with lowest point of enclosure located under 1000 mm below the surface of the water. Other test condition in according with the par. 14.2.7 of the EN 60529. Duration of test: 30 min.	
Used test equipment:	Manufacturer	TÜV Internal Reg. No.:
Dust chamber	Perani	55500097
Water immersion chamber	TUV Rheinland	55500151
Atmospheric condition	Oregon Scientific	55500103/1
Measurement uncertainty:	Water flow rate : 0,5 l/min Distance : 0,001 m Time : 1 s	
Atmospheric condition :	Recommended par.11, EN60529	Measured value
	<ul style="list-style-type: none"> • Temperature range +15 to +35°C • Relative humidity 25% to 75% • Air pressure 860 to 1060 mbar 	<ul style="list-style-type: none"> • Temperature range +21°C • Relative humidity 63% • Air pressure 1023 mbar
Test results:		Verdict
IP6X	No infiltration of talcum powder	Pass
IPX7	No infiltration of water	Pass

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Annex 2

Photo no. 1: Identification of the EUT

