Produkte
Products

TÜVRheinland®

Prüfbericht - Nr.: *Test Report No.:*	**16054845 001**	**Seite 1 von 9** *Page 1 of 9*

Auftraggeber: *Client:*	**Hongru Connector Co., Ltd. Dg** *1 Xijie Zhenyuan Rd,Caiwu Industrial Area Wusha Changan Town Dongguan, Guangdong P.R. China*
Gegenstand der Prüfung: *Test item:*	M3965R-2-K Connector

Bezeichnung: *Identification:*	**GWT60335-1**	**Serien-Nr.:** Serial *No.:*	**Engineering samples without series number**
Wareneingangs-Nr.: *Receipt No.:*	**164004517**	**Eingangsdatum:** *Date of receipt:*	**2013-04-22**

Zustand des Prüfgegenstandes bei Anlieferung: **Condition of test item at delivery:**	**The sample is ok for testing and not damaged.**
Prüfort: *Testing location:*	**TÜV Rheinland (Guangdong) Ltd.** *No.199 Kezhu Road, Guangzhou Science City 510663, Guangzhou, CHINA*
Prüfgrundlage: *Test specification:*	**IEC 60335-1:2010 (Fifth Edition)**
Prüfergebnis: *Test Result:*	**Der Prüfgegenstand entspricht oben genannter Prüfgrundlage(n).** *The test item passed the test specification(s).*
Prüflaboratorium: *Testing Laboratory:*	**TÜV Rheinland (Guangdong) Ltd.** *No.199 Kezhu Road, Guangzhou Science City 510663, Guangzhou, CHINA* *(*Certificate no. of DAkkS: D-PL-12077-01-01 Valid from 2011-04-20 to 2013-07-29)

geprüft/ *tested by:* Array Liao

kontrolliert/ *reviewed by:* JerryPeng

Datum *Date*	Name/Stellung *Name/Position*	Unterschrift *Signature*	Datum *Date*	Name/Stellung *Name/Position*	Unterschrift *Signature*
2013.04.26	Array Liao / Engineer		2013.04.28	Jerry Peng / Technical Certifier	

Sonstiges/ *Other Aspects:*

- As required by the client, only the clause 30.2 glow-wire test of standard IEC 60335-1:2010 was performed for connector GWT60335-1.
- This test report contains 9 pages and an attachment 1 with 2 pages for testing equipment list.
- 3 samples were selected to perform the test.

Abkürzungen:	***P(ass)***	***=***	***entspricht Prüfgrundlage***	***Abbreviations:***	***P(ass)***	***=***	***passed***
	F(ail)	***=***	***entspricht nicht Prüfgrundlage***		***F(ail)***	***=***	***failed***
	N/A	***=***	***nicht anwendbar***		***N/A***	***=***	***not applicable***
	N/T	***=***	***nicht getestet***		***N/T***	***=***	***not tested***

Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.
This test report relates to the a. m. test item. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

Test Report issued under the responsibility of:

TÜVRheinland®

TEST REPORT
IEC 60335-1
Safety of household and similar electrical appliances

Report Number. .....:	16054845 001
Date of issue .....:	See cover page
Total number of pages.....:	See cover page
Applicant's name.....:	See cover page
Address .....:	See cover page
Test specification:	
Standard.....:	IEC 60335-1:2010 (Fifth Edition)
Test procedure .....:	N/A
Non-standard test method……..:	N/A
Test Report Form No.....:	IEC60335_1T
Test Report Form(s) Originator.....:	Nemko AS
Master TRF.....:	Dated 2013-02

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description .....:	Connector
Trade Mark .....:	HRB
Manufacturer.....:	**Hongru Connector Co., Ltd. Dg** 1 1 Xijie Zhenyuan Rd,Caiwu Industrial Area Wusha Changan Town Dongguan, Guangdong P.R. China
Model/Type reference .....:	GWT60335-1
Ratings .....:	7A 250VDC

Testing procedure and testing location:			
☐	**CB Testing Laboratory:**		
Testing location/ address ..... :			
☐	**Associated CB Testing Laboratory:**		
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Approved by (name + signature) ..... :			
☐	**Testing procedure: TMP**		
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Approved by (name + signature) ..... :			
☐	**Testing procedure: WMT**		
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Witnessed by (name + signature) .... :			
Approved by (name + signature) ..... :			
☐	**Testing procedure: SMT**		
Testing location/ address ..... :			
Tested by (name + signature)..... :			
Approved by (name + signature) ..... :			
Supervised by (name + signature)... :			

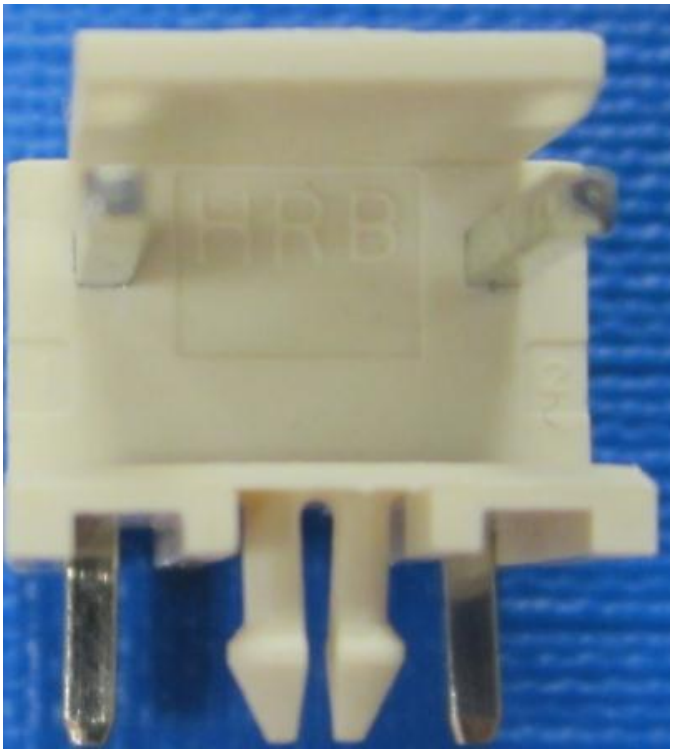
List of Attachments (including a total number of pages in each attachment):

Attachment 1 with 2 pages for testing equipment list.

Summary of testing:

Tests performed (name of test and test clause):	**Testing location:**
Clause 30.2 glow-wire test of 850°C was tested.	See cover page.

Copy of marking plate



Test item particulars ..... :	**Connector**
Classification of installation and use ..... :	N/A
Supply Connection..... :	N/A
..... :	
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement .....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing .....:	
Date of receipt of test item .....:	2013.04.22
Date (s) of performance of tests.....:	2013.04.26

General remarks:

The test results presented in this report relate only to the object tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies).....:	**Hongru Connector Co., Ltd. Dg** 1 Xijie Zhenyuan Rd,Caiwu Industrial Area Wusha Changan Town Dongguan, Guangdong P.R. China

General product information:

The connector has four pins and white enclosure. Its rating is 7A 250VDC.

IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
30	RESISTANCE TO HEAT AND FIRE		P
30.1	External parts of non-metallic material,		N/A
	parts supporting live parts, and		N/A
	parts of thermoplastic material providing supplementary or reinforced insulation		N/A
	sufficiently resistant to heat		N/A
	Ball-pressure test according to IEC 60695-10-2		N/A
	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C).....:		N/A
	Parts supporting live parts tested at 40°C plus the maximum temperature rise determined during the test of clause 11, or at 125 °C, whichever is the higher; temperature (°C).....:		N/A
	Parts of thermoplastic material providing supplementary or reinforced insulation tested at 25 °C plus the maximum temperature rise determined during clause 19, if higher; temperature (°C) .....:		N/A
30.2	Parts of non-metallic material resistant to ignition and spread of fire		P
	This requirement does not apply to:		N/A
	parts having a mass not exceeding 0,5 g, provided the cumulative effect is unlikely to propagate flames that originate inside the appliance by propagating flames from one part to another, or		N/A
	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance		N/A
	Compliance checked by the test of 30.2.1, and in addition:		N/A
	- for attended appliances, 30.2.2 applies		N/A
	- for unattended appliances, 30.2.3 applies		N/A
	For appliances for remote operation, 30.2.3 applies		N/A
	For base material of printed circuit boards, 30.2.4 applies		N/A
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550 °C		N/A
	However, test not carried out if the material is classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 550 °C, or		N/A

IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	the material is classified at least HB40 according to IEC 60695-11-10		N/A
	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF		N/A
30.2.2	Appliances operated while attended, parts of non-metallic material supporting current-carrying connections, and		N/A
	parts of non-metallic material within a distance of 3mm of such connections,		N/A
	subjected to the glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		N/A
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10 .....:		N/A
	Glow-wire test not applicable to conditions as specified .....:		N/A
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	Unattended	P
	The tests are not applicable to conditions as specified .....:		P
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	Rated current 7A	P
	parts of non-metallic material, other than small parts, within a distance of 3 mm,	Within 3mm	P

IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	Test temperature of 850°C and no ignition	P
	Glow-wire applied to an interposed shielding material, if relevant	No interposed shielding material	P
	The glow-wire test is not carried out on parts of material classified as having a glow-wire flammability index according to IEC 60695-2-12 of at least 850 °C		N/A
30.2.3.2	Parts of non-metallic material supporting connections, and		N/A
	parts of non-metallic material within a distance of 3mm,		N/A
	subjected to glow-wire test of IEC 60695-2-11		N/A
	The test severity is:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	Glow-wire applied to an interposed shielding material, if relevant		N/A
	However, the glow-wire test of 750 °C or 650 °C as appropriate, is not carried out on parts of material fulfilling both or either of the following classifications:		N/A
	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:		N/A
	• 775 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	• 675 °C, for other connections		N/A
	- a glow-wire flammability index according to IEC 60695-2-12 of at least:		N/A
	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation		N/A
	- 650 °C, for other connections		N/A
	The glow-wire test is also not carried out on small parts. These parts are to:		N/A
	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- comply with the needle-flame test of Annex E, or		N/A
	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10		N/A

IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
	The consequential needle-flame test of Annex E applied to non-metallic parts that encroach within the vertical cylinder placed above the centre of the connection zone and on top of the non-metallic parts supporting current-carrying connections, and parts of non-metallic material within a distance of 3 mm of such connections if these parts are those:		N/A
	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or		N/A
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or		N/A
	- small parts for which the needle-flame test of Annex E was applied, or		N/A
	- small parts for which a material classification of V-0 or V-1 was applied		N/A
	However, the consequential needle-flame test is not carried out on non-metallic parts, including small parts, within the cylinder that are:		N/A
	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or		N/A
	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or		N/A
	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10		N/A
30.2.4	Base material of printed circuit boards subjected to the needle-flame test of Annex E		N/A
	Test not applicable to conditions as specified .....:		N/A