

CTS (NINGBO) TESTING SERVICE TECHNOLOGY INTERNATIONAL

OPERATE ACCORDING TO ISO/IEC 17025

EMC TEST REPORT

TEST REPORT NUMBER: CNB3130417-00612-E





CTS (Ningbo) Testing Service Technology Co., Ltd. 2/F., South Tower, Huoju Building, No.181, Canghai Road, Jiangdong Science and Technology Park, Ningbo, Zhejiang, China





TEST REPORT				
EN 50262:1998+A2:2004				
	ABLE GLAND for electrical installations			
Report Reference No				
Date of issue	22 April 2013			
Testing Laboratory Name	CTS (Ningbo) Testing Service Technology Co., Ltd.			
	GZ test site;Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China.			
Testing location/ procedure	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □			
Applicant's name	YUEQING JIXIANG CONNECTOR CO., LTD.			
Address	DAHEYAN INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING, ZHEJIANG.			
Test specification:				
Standard	EN 50262:1998+A2:2004			
Test Report Form No	CTSEMC-1.0			
TRF Originator	CTS (Ningbo) Testing Service Technology Co., Ltd.			
Master TRF	Dated 2009-01			
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Test item description	STUFFING BOX			
Trade Mark	<i>I</i>			
Manufacturer	YUEQING JIXIANG CONNECTOR CO., LTD.			
Model/Type reference	JIS			
Ratings	N/A			
Result	PASSED			

Compiled by:

Supervised by:

Approved by:

Kate zhang /File administrators

Duke yang / Technique principal

Vincent yao / Manager

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EMC -- TEST REPORT

Test Report No. : CNB3130417-00612-E 22 April 2013 Date of issue

Type / Model	JIS
EUT	STUFFING BOX
Applicant	YUEQING JIXIANG CONNECTOR CO., LTD.
Address	DAHEYAN INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING, ZHEJIANG.
Telephone	1
Fax	1
Contact	1
Manufacturer	YUEQING JIXIANG CONNECTOR CO., LTD.
Address	DAHEYAN INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING, ZHEJIANG.
Telephone	1
Fax	1
Contact	1
Factory	YUEQING JIXIANG CONNECTOR CO., LTD.
Address	DAHEYAN INDUSTRIAL ZONE, LIUSHI TOWN, YUEQING, ZHEJIANG.
Telephone	1
Fax	1
Contact	1

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1 TEST STANDARDS

The tests were performed according to following standards:

EN 50262:1998+A2:2004 Low-voltage switchgear and controlgear Part 1: General rules Only for EMC

2 SUMMARY

2.1 GENERAL REMARKS

Date of receipt of test sample	19 April 2013
Testing commenced on	19~20 April 2013
Testing concluded on	22 April 2013

2.2 FINAL ASSESSMENT

The EMC requirements pertaining to the technical standards and tested operation modes are

_	fu	lfil	led.

□ - **not** fulfilled.

The equipment under test

- fulfils the EMC requirements cited on page 1.
- **does not** fulfil the EMC requirements cited on page 1.

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3 EQUIPMENT UNDER TEST

3.1 Power supply system utilised

Power supply voltage: ■ N/A

☐ Other (Specified blank below)

3.2 Short description of the Equipment under Test (EUT)

Number of tested samples: Serial number: Prototype

3.3 EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

Normal

Operating Mode:	Normal
Emissions tests	: According to EN 50262, searching for the highest disturbance.
Immunity tests	. : According to EN 50262, searching for the highest susceptivity.

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3.4 EUT configuration

(The CDF filled by the applicant can be viewed at the test laboratory.)

The following peripheral devices and interface cables were connected during the measurement:

Not Applicable

3.5 Performance level

The test results shall be classified in terms of the loss of function or degradation of performance of the equipment under test, relative to a performance level defined by its manufacturer or the requestor of the test, or agreed between the manufacturer and the purchaser of the product.

3.6 Definition related to the performance level

- based on the used product standard
- ☐ based on the declaration of the manufacturer, requestor or purchaser

Criterion A:

Definition: normal performance within limits specified by the manufacturer, requestor or purchaser:

Criterion B:

Definition: temporary loss of function or degradation of performance which ceases after the disturbance ceases, and from which the equipment under test recovers its normal performance, without operator intervention:

Criterion C:

Definition: temporary loss of function or degradation of performance, the correction of which requires operator intervention:

Criterion D:

Definition: loss of function or degradation of performance, which is not recoverable, owing to damage to hardware or software, or loss of data:

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4 TEST ENVIRONMENT

4.1 Address of the test laboratory

GZ test site; Building F, Dachuang industrial park, No.379, Zhongshan Dadao, Guangzhou, China

Tel: +86-20-85543113 (32 lines) Fax: +86-20-38780406

4.2 Test facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L3394

CTS (Ningbo) Testing Service Technology Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01: 2006 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

IC-Registration No.: 8374A

The 3m Alternate Test Site of CTS (Ningbo) Testing Service Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 8374 on June 06, 2011.

FCC-Registration No.: 971995

CTS (Ningbo) Testing Service Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration No.971995, July 13, 2012.

4.3 Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35 ° C
Humidity:	25~75 %
Atmospheric pressure:	86~106 kPa

4.4 Definitions of symbols used in this test report

- The black square indicates that the listed condition, standard or equipment is applicable for this report.
- The empty square indicates that the listed condition, standard or equipment is **not** applicable for this report.

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the CTS quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Dadiation emission (2m)	30MHz~300MHz	±3.14dB	(1)
Radiation emission (3m)	300MHz~1000MHz	±3.18dB	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Description

4.7.1 Description of Standards and Results

	EMISSION					
Description of Test Item		Standard		Limits	Results	
Conducted disturbance at mains terminals		EN 50262:1998+A2:2004		Class B	N/A	
Conducted disturbance at telecommunication port		EN 50262:1998+A2:2004		Class B	N/A	
Radiated disturbance		EN 50262:1998+A2:2004		Class B	PASS	
Harmonic current emissions	El	N 61000-3-2:2006+A2:2009		Class A	N/A	
Voltage fluctuations & flicker		EN 61000-3-3:2008 IEC 61000-3-3-2008			N/A	
		IMMUNITY				
Description of Test Item		Basic Standard	_	rformance Criteria	Results	
Electrostatic discharge (ESD)		IEC 61000-4-2: 2008		В	PASS	
Radio-frequency, Continuous radiated disturbance		IEC 61000-4-3:2006 +A1:2007+A2:2010		Α	PASS	
Electrical fast transient (EFT)		IEC 61000-4-4:2012		В	N/A	
Surge (Input a.c. power ports)		IEC 61000-4-5: 2005		В	N/A	
Surge (Telecommunication ports)	IEC 61000-4-6: 2008		В	N/A	
Radio-frequency, Continuous conducted disturban	ce	IEC 61000-4-8: 2009		Α	N/A	
Power frequency magnetic field		IEC 61000-4-11: 2004		Α	PASS	
Voltage dips, >95% reduction		IEC 61000-4-4: 2004		В	N/A	
Voltage dips, 30% reduction				В	N/A	
Voltage interruptions	Voltage interruptions			С	N/A	
N/A is an abbreviation for Not Ap	plicable	e.				

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5 TEST CONDITIONS AND RESULTS

5.1 Radiated disturbance (electric field)

For test instruments and accessories used see section 6 part 6.1.

5.1.1 Description of the test location

Test location : Semi-Anechoic chamber

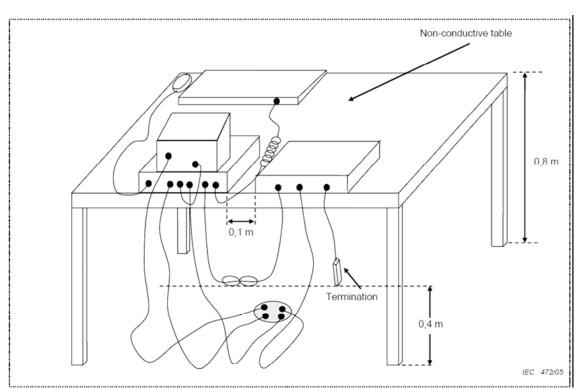
Test disturbance: 3 Meter

5.1.2 Description of the test set-up

5.1.2.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.1.2.2 Block Diagram of Test Setup



5.1.3 Limits of disturbance (Class B)

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBµV/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

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5.1.4 Test result

Frequency Range / Polarization	Passed	Failed	Number of rechecks
30 MHz - 200 MHz / vertical	X		0
30 MHz - 200 MHz / horizontal	X		0
200 MHz - 1000 MHz /vertical	X		0
200 MHz - 1000 MHz / horizontal	X		0

Test by: Wade Test date: 2013-04-19

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5.2 Electrostatic discharge

For test instruments and accessories used see section 6 part 6.2.

5.2.1 Description of the test location

Test location:	Test location no. 2
Power supply:	N/A
Test condition:	Ambient Temperature: 24℃, Humidity:56%
Date of test :	19~20 April 2013
Operator :	Wade

5.2.2 Severity of levels electrostatic discharge

5.2.2.1 Severity level: Contact discharge at \pm 4KV air discharge at \pm 8KV

Level	Test Voltage Contact Discharge (kV)	Test Voltage Air Discharge (kV)	
1	2	2	
2	4	4	
3	6	8	
4	8	15	
Х	Special	Special	

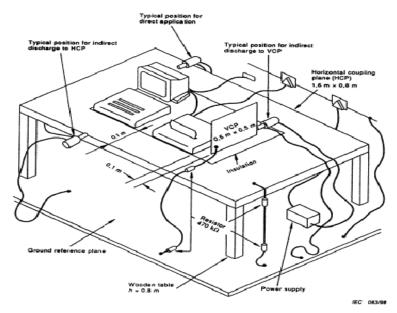
5.2.2.2 Performance criterion: B

5.2.3 Description of the test set-up

5.2.3.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.2.3.2 Block Diagram of Test Setup



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5.2.4 Test specification:

Contact discharge voltage:	■ 2 kV	l kV
Air discharge voltage:	■ 2 kV ■ 4	1 kV ■ 8 kV
Discharge impedance:	■ 330 Ω / 150 pF	
Discharge factor:	■ ≥1 sec.	
Number of discharges:	■ ≥ 10	
Type of discharge:	Direct discharge	■ Air discharge
	Indirect discharge	■ Contact discharge■ Contact discharge
		- Contact disortaries
Polarity:	■ Positive	■ Negative
Discharge location:	■see photo docume	ntation of the test set-up
	■all external location	ns accessible by hand
	■horizontal plate (H	CP)
	■vertical coupling pl	ate (VCP)

5.2.5 Test result

The requirements are **Fulfilled** Performance Criterion: **B**

Remarks: During the test no deviation was detected to the selected operation mode(s).

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5.3 Radiated, radio-frequency, electromagnetic field

For test instruments and accessories used see section 6 part 6.3.

5.3.1 Description of the test location

Test location:	GTEM chamber
Power supply:	N/A
Test condition:	Ambient Temperature: 24 ℃, Humidity:56%
Date of test :	19~20 April 2013
Operator :	Wade

5.3.2 Severity levels of radiated, Radio-frequency, electromagnetic field

5.3.2.1 Severity level: 3V/m

Level	Field strenght(V/m)	
1	1	
2	3	
3	10	
X	Special	

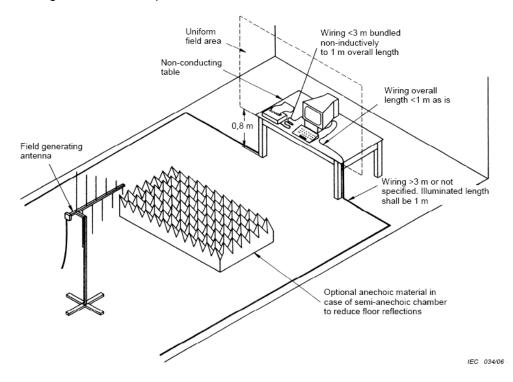
5.3.2.2 Performance criterion: A

5.3.3 Description of the test set-up

5.3.3.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.3.3.2 Block Diagram of Test Setup



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5.3.4 Test specification:

Frequency range:	■ 80 MHz to 1000 MHz
Field strength:	■ 3 V/m
EUT - antenna separation:	■ 3 m
Madulation	■ AM: 80 %
Modulation:	■ sinusoidal 1000Hz
Frequency step:	■ 1 % with 3 s dwell time
Antenna polarisation:	■ horizontal ■ vertical

5.3.5 Test result

The requirements are **Fulfilled** Performance Criterion: **A**

Remarks: During the test no deviation was detected to the selected operation mode(s).

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5.4 Power frequency magnetic field

For test instruments and accessories used see section 6 part 6.4.

5.4.1 Description of the test location

Test location:	Test location no. 2
Power supply:	N/A
Test condition:	Ambient Temperature: 24℃, Humidity:56%
Date of test :	19~20 April 2013
Operator :	Wade

5.4.2 Severity levels of magnetic field immunity

5.4.2.1 Severity Level: 3A/m

Level	Magnetic Field Strength (A/m)
1	1
2	3
3	10
4	30
5 100	
X	Special

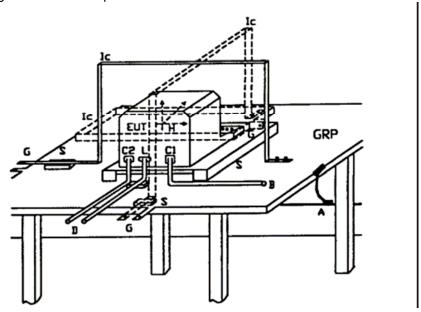
5.4.2.2 Performance Criterion: A

5.4.3 Description of the test set-up

5.4.3.1 Operating Condition

The EUT is engraving during the test, and the results of the maximum emanation are recorded

5.4.3.2 Block Diagram of Test Setup



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5.4.4 Test specification:

Test frequency:	■ 50 Hz
Continuous field:	■ 3 A/m
Duration (Continuous field):	■ 60 s each Axis
Short duration (1-3s):	■ 3S
Axis:	■ x-axis ■ y-axis ■ z-axis

5.4.5 Test result

The requirements are **Fulfilled** Performance Criterion: **A**

Remarks: During the test no deviation was detected to the selected operation mode(s).

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6 USED TEST EQUIPMENT

6.1

Radia	Radiated disturbance (electric field)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2012/03/20
2	EMI Test Receiver	ROHDE & SCHWARZ	ESVS 10	842885/001	2012/11/06
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2012/03/24
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2012/03/24
5	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2012/03/24
6	EMI Test Software	Farad	EZ-EMC	N/A	N/A

6.2

Electi	rostatic Discharge				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	Schlöder	SESD 200	0302016	2012/03/19

6.3

RF Fi	RF Field Strength Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	
1	Signal Generator	ROHDE & SCHWARZ	SMY 01	843215/014	2012/11/06	
2	Signal Generator	ROHDE & SCHWARZ	SML03	102986	2012/11/06	
3	Amplifier	KALMUS	713FC	7385-1	2012/11/06	
4	Power Meter	ROHDE & SCHWARZ	NRVS	842856/049	2012/11/06	
5	Field Probe	ETS	HI-6005	00075047	2012/11/14	
7	RS Test Software	Farad	EZ-RS	N/A	N/A	

6.4

Р	Power Frequency Magnetic Field Susceptibility					
It	Item Test Equipment Manufacturer Model No. Serial No. Last C					Last Cal.
		Power frequency mag- field generator System		EMS61000-8K	409001	2012/11/20

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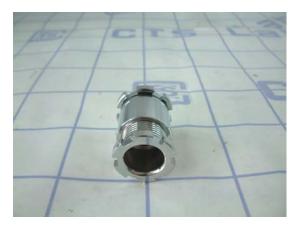
7 External and Internal Photos of the EUT



External view 1



External view 2



External view 3

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8 Manufacturer/ Approval holder Declaration

The following identical model(s):

TH_v TJ

Belong to the tested device:

Product description: **STUFFING BOX**Model name: **JIS**

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