



**CTS (NINGBO) TESTING SERVICE TECHNOLOGY  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **EMC TEST REPORT**

**TEST REPORT NUMBER : CNB3151221-00956-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



<b>TEST REPORT</b>	
<b>EN 50262:1998+A2:2004</b>	
Cable glands for electrical installations	
<b>Report Reference No.</b> .....	CNB3151221-00956-E
<b>Date of issue</b> .....	24 December 2015
<b>Testing Laboratory Name</b> .....	<b>CTS (Ningbo) Testing Service Technology Co., Ltd.</b>
<b>Address</b> .....	GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, China.
<b>Testing location/ procedure</b> .....	Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>
<b>Applicant's name</b> .....	Yueqing Jixiang Connector Co.,Ltd.
<b>Address</b> .....	Daheyan Industrial Zone,Xiangyang Town,Yueqing,China
<b>Test specification:</b>	
<b>Standard</b> .....	<b>EN 50262:1998+A2:2004</b> <b>EN 61000-6-3:2007+A1:2011+AC:2012, EN 61000-6-1:2007</b>
<b>Test Report Form No.</b> .....	CTSEMC-1.0
<b>TRF Originator</b> .....	CTS (Ningbo) Testing Service Technology Co., Ltd.
<b>Master TRF</b> .....	Dated 2009-01
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<b>Test item description.</b> .....	Cable gland
<b>Trade Mark</b> .....	/
<b>Manufacturer</b> .....	Yueqing Jixiang Connector Co.,Ltd.
<b>Model/Type reference</b> .....	PG
<b>Ratings</b> .....	N/A
<b>Result</b> .....	<b>PASSED</b>

**Compiled by:**

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## EMC -- TEST REPORT

<b>Test Report No. :</b> CNB3151221-00956-E	<u>24 December 2015</u> Date of issue
---	--

Type / Model.....	PG
EUT.....	Cable gland
<b>Applicant</b> .....	Yueqing Jixiang Connector Co.,Ltd.
Address.....	Daheyan Industrial Zone,Xiangyang Town,Yueqing,China
Telephone.....	/
Fax.....	/
Contact.....	/
<b>Manufacturer</b> .....	Yueqing Jixiang Connector Co.,Ltd.
Address.....	Daheyan Industrial Zone,Xiangyang Town,Yueqing,China
Telephone.....	/
Fax.....	/
Contact.....	/
<b>Factory</b> .....	Yueqing Jixiang Connector Co.,Ltd.
Address.....	Daheyan Industrial Zone,Xiangyang Town,Yueqing,China
Telephone.....	/
Fax.....	/
Contact.....	/

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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## TABLE OF CONTENTS

Description	Page
1 TEST STANDARDS.....	4
2 SUMMARY.....	4
2.1 GENERAL REMARKS .....	4
2.2 FINAL ASSESSMENT.....	4
3 EQUIPMENT UNDER TEST.....	5
3.1 Power supply system utilised.....	5
3.2 Short description of the Equipment under Test (EUT).....	5
3.3 EUT operation mode.....	5
3.4 EUT configuration .....	6
3.5 Performance level .....	6
3.6 Definition related to the performance level.....	6
4 TEST ENVIRONMENT .....	7
4.1 Address of the test laboratory.....	7
4.2 Test facility.....	7
4.3 Environmental conditions .....	7
4.4 Definitions of symbols used in this test report.....	7
4.5 Statement of the measurement uncertainty .....	7
4.6 Measurement Uncertainty .....	8
4.7 Test Description .....	8
5 TEST CONDITIONS AND RESULTS .....	9
5.1 Radiated disturbance (electric field).....	9
5.2 Electrostatic discharge.....	11
5.3 Radiated, radio-frequency, electromagnetic field .....	13
5.4 Power frequency magnetic field.....	15
6 USED TEST EQUIPMENT.....	17
7 External and Internal Photos of the EUT .....	18
8 Manufacturer/ Approval holder Declaration .....	19

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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

[EN 61000-6-3:2007+A1:2011+AC:2012](#) Electromagnetic compatibility (EMC) —Part 6-3: Generic standards — Emission standard for residential, commercial and light-industrial environments

[EN 61000-6-1:2007](#) Electromagnetic compatibility (EMC) —Part 6-1: Generic standards — Immunity for residential, commercial and light-industrial environments

## 2 SUMMARY

### 2.1 GENERAL REMARKS

Date of receipt of test sample	21 December 2015
Testing commenced on	21 ~ 24 December 2015
Testing concluded on	24 December 2015

### 2.2 FINAL ASSESSMENT

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

- fulfilled.

- **not** fulfilled.

The equipment under test

- fulfils the EMC requirements cited on page 1.

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



### 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: 1  
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/EN 61000-6-3, searching for the highest disturbance.

Immunity tests ..... : According to EN 50262/EN 61000-6-1, searching for the highest susceptibility.

### 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:

## 4 TEST ENVIRONMENT

### 4.1 Address of the test laboratory

GZ test site: A101, No.65, Zhuji Road, Tianhe District, Guangzhou, Guangdong, 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. 8374A on May 22, 2014.

#### **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.



## 4.6 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
Conduction disturbance	150kHz~30MHz	±1.22dB	(1)
Power disturbance	30MHz~300MHz	±1.38dB	(1)
Radiation emission (3m)	30MHz~300MHz	±3.14dB	(1)
	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	EN 61000-3-2:2006+A2:2009	Class A	N/A
Voltage fluctuations & flicker	EN 61000-3-3:2013 IEC 61000-3-3:2013	-----	N/A
IMMUNITY			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic discharge (ESD)	IEC 61000-4-2: 2008	B	PASS
Radio-frequency, Continuous radiated disturbance	IEC 61000-4-3:2006 +A1:2007+A2:2010	A	PASS
Electrical fast transient (EFT)	IEC 61000-4-4:2012	B	N/A
Surge (Input a.c. power ports)	IEC 61000-4-5: 2005 IEC 61000-4-6: 2008	B	N/A
Surge (Telecommunication ports)		B	N/A
Radio-frequency, Continuous conducted disturbance	IEC 61000-4-8: 2009	A	N/A
Power frequency magnetic field	IEC 61000-4-11: 2004	A	PASS
Voltage dips, >95% reduction	IEC 61000-4-4: 2004	B	N/A
Voltage dips, 30% reduction		B	N/A
Voltage interruptions		C	N/A
N/A is an abbreviation for Not Applicable.			

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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

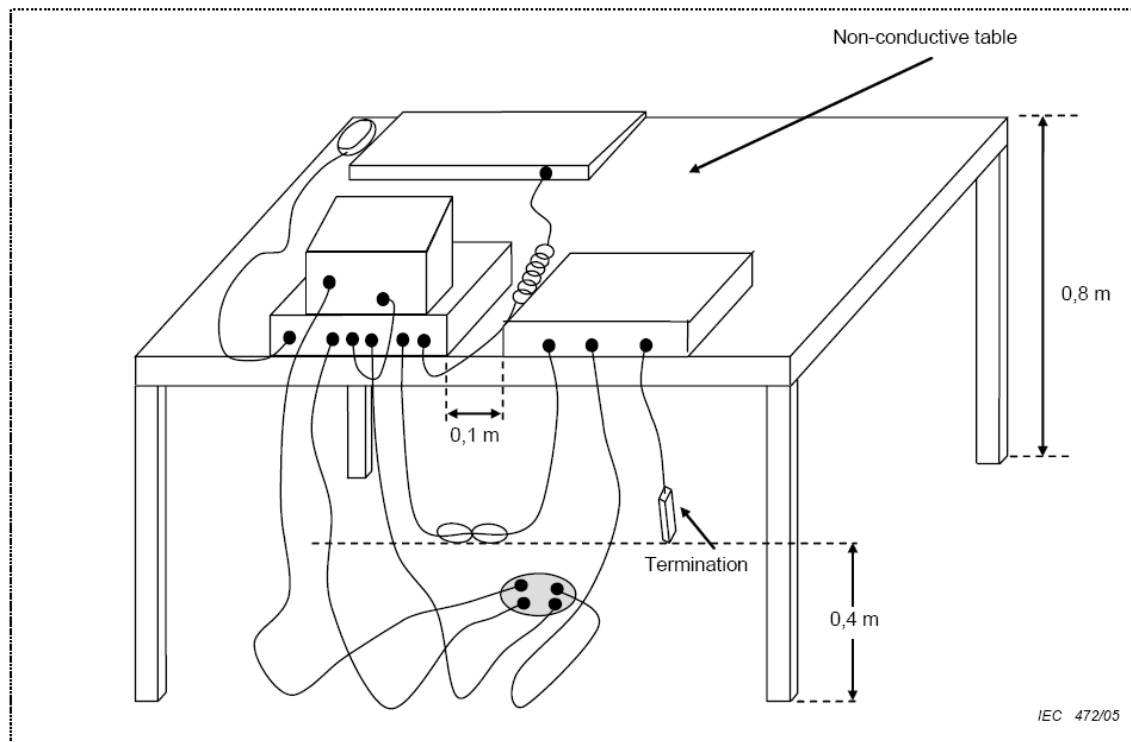
Test disturbance: 3 Meter

#### 5.1.2 Description of the test set-up

##### 5.1.2.1 Operating Condition

The EUT is normal 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 (dB $\mu$ V/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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
30 MHz - 200 MHz / horizontal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
200 MHz - 1000 MHz /vertical	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
200 MHz - 1000 MHz / horizontal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0

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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°C, Humidity:56%
Date of test :	21~24 December 2015
Operator :	Duke

### 5.2.2 Severity of levels electrostatic discharge

5.2.2.1 Severity level: Contact discharge at  $\pm 4\text{KV}$  air discharge at  $\pm 8\text{KV}$

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

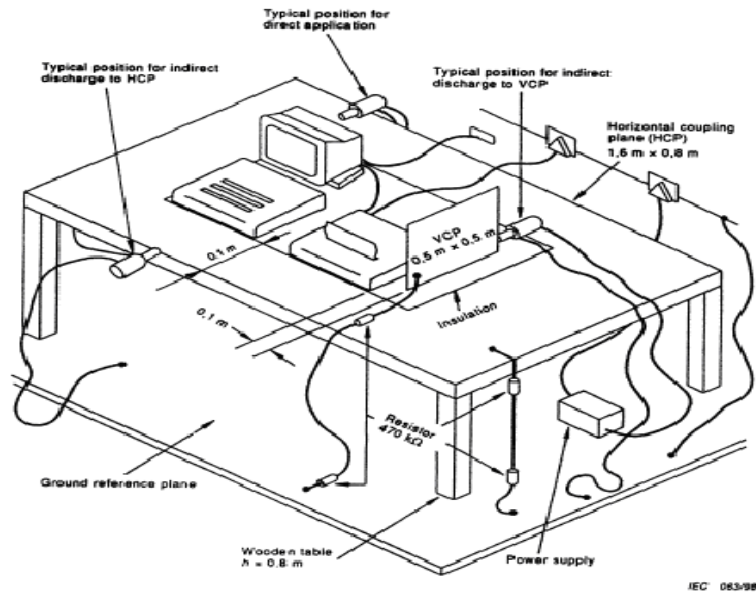
5.2.2.2 Performance criterion: B

### 5.2.3 Description of the test set-up

5.2.3.1 Operating Condition

The EUT is normal 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:	<input checked="" type="checkbox"/> 2 kV	<input checked="" type="checkbox"/> 4 kV	
Air discharge voltage:	<input checked="" type="checkbox"/> 2 kV	<input checked="" type="checkbox"/> 4 kV	<input checked="" type="checkbox"/> 8 kV
Discharge impedance:	<input checked="" type="checkbox"/> 330 $\Omega$ / 150 pF		
Discharge factor:	<input checked="" type="checkbox"/> $\geq 1$ sec.		
Number of discharges:	<input checked="" type="checkbox"/> $\geq 10$		
Type of discharge:	Direct discharge	<input checked="" type="checkbox"/> Air discharge	
		<input checked="" type="checkbox"/> Contact discharge	
	Indirect discharge	<input checked="" type="checkbox"/> Contact discharge	
Polarity:	<input checked="" type="checkbox"/> Positive	<input checked="" type="checkbox"/> Negative	
Discharge location:	<input checked="" type="checkbox"/> see photo documentation of the test set-up		
	<input checked="" type="checkbox"/> all external locations accessible by hand		
	<input checked="" type="checkbox"/> horizontal plate (HCP)		
	<input checked="" type="checkbox"/> vertical coupling plate (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).

### 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°C, Humidity:56%
Date of test :	21~24 December 2015
Operator :	Duke

#### 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

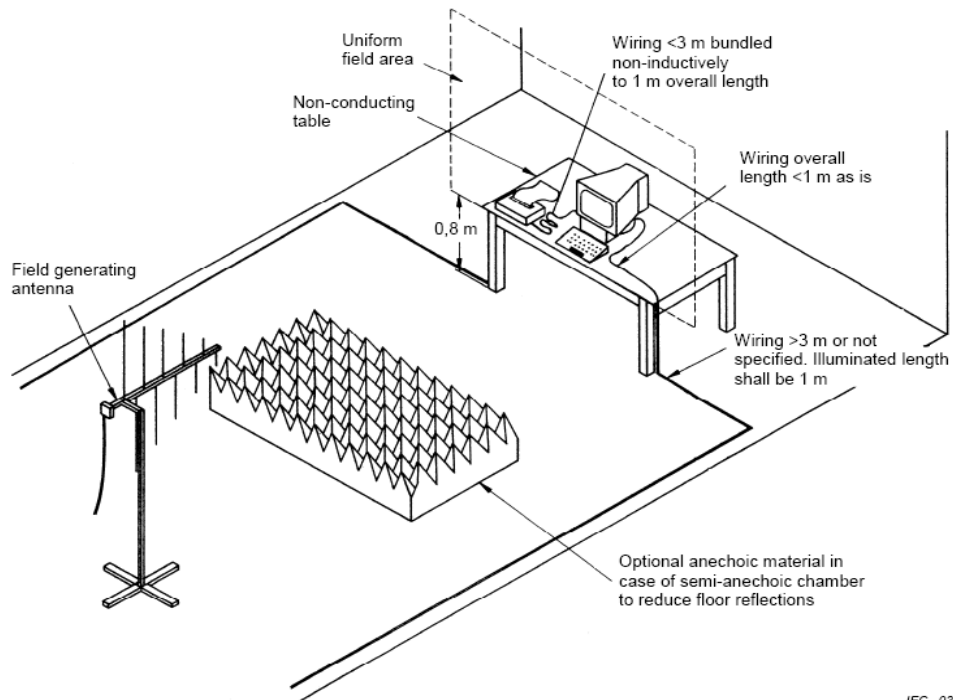
##### 5.3.2.2 Performance criterion: A

#### 5.3.3 Description of the test set-up

##### 5.3.3.1 Operating Condition

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

##### 5.3.3.2 Block Diagram of Test Setup



IEC 034/06

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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
Modulation:	■ AM: 80 % ■ 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).

### 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°C, Humidity:56%
Date of test :	21 December 2015
Operator :	<b>Duke</b>

#### 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

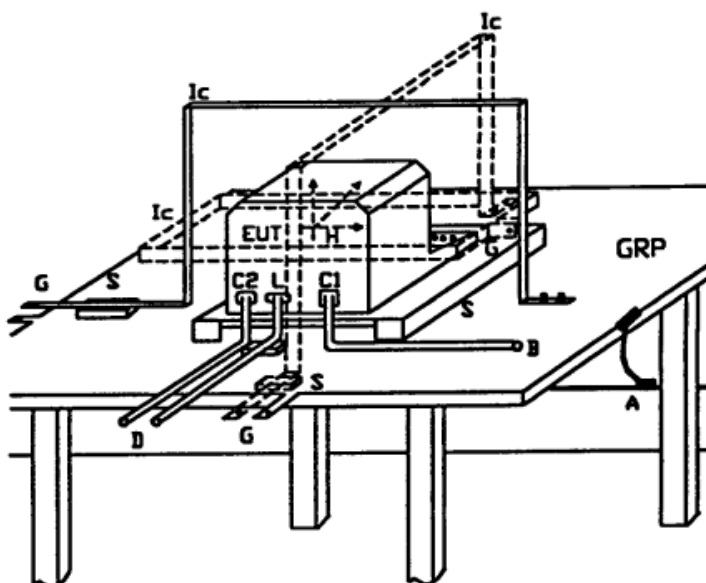
##### 5.4.2.2 Performance Criterion: A

#### 5.4.3 Description of the test set-up

##### 5.4.3.1 Operating Condition

The EUT is normal 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):	■ 3 S		
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).

## 6 USED TEST EQUIPMENT

### 6.1

Radiated disturbance (electric field)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal analyzer	ROHDE & SCHWARZ	FSIQ26	100311	2015/03/24
2	EMI Test Receiver	ROHDE & SCHWARZ	ESVS 10	842885/001	2015/10/30
3	Biconical Antenna	ROHDE & SCHWARZ	HK116	100221	2015/03/24
4	Log per Antenna	ROHDE & SCHWARZ	HL223	100226	2015/03/24
5	Log per Antenna	ROHDE & SCHWARZ	HL050	100186	2015/03/24
6	Pre-Amplifier	EMC	EMC330	980113	2015/03/24
7	Pre-Amplifier	EMC	EMC012645	980114	2015/03/24
8	EMI Test Software	Farad	EZ-EMC	N/A	N/A

### 6.2

Electrostatic Discharge					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ESD Simulator	Schlöder	SESD 200	0302016	2015/03/24

### 6.3

RF Field Strength Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Signal Generator	ROHDE & SCHWARZ	SMY 01	843215/014	2015/10/30
2	Signal Generator	ROHDE & SCHWARZ	SML03	102986	2015/10/30
3	Amplifier	KALMUS	713FC	7385-1	2015/10/30
4	Power Meter	ROHDE & SCHWARZ	NRVS	842856/049	2015/10/30
5	Field Probe	ETS	HI-6005	00075047	2015/11/10
7	RS Test Software	Farad	EZ-RS	N/A	N/A

### 6.4

Power Frequency Magnetic Field Susceptibility					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	Power frequency mag-field generator System	EM TEST	EMS61000-8K	409001	2015/10/30

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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):

**M**

Belong to the tested device:

Product description: **Cable gland**  
Model name: **PG**