



Reliability Laboratory

## TEST REPORT

Report No.: HCD0143/2009

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Date: December 22, 2009

UNICABLE CO., LTD.  
5F, NO. 111-33, SEC. 4, SAN HO ROAD,  
SAN CHUNG CITY, TAIPEI HSIEN,  
TAIWAN, R.O.C.

The following merchandise was submitted and identified by the vendor as:

Product Description: M8 Series  
Style / Item No.: UT-P209F/ UT-P205M / No.1  
Manufacturer/ Vendor: Unicable Co., Ltd.  
Country of Origin: Taiwan  
Quantity: Total 1 piece  
Testing Period: Dec. 22, 2009

We have tested the submitted sample(s) as requested and the following results were obtained:

Test Required: (According to client's test specification, please see following sheets in detail.)

1. Waterproof Test

Test Results: – PLEASE SEE ATTACHED SHEETS –

Terence Hsieh  
Manager - Operation

## 1. Waterproof Test:

### Test Equipment:

Name	Brand	Model	Serial No.
IPX7/IPX8 Immersion Tank	self-made	SGS-ETR-0201	000001
AC/DC Withstand Voltage/ Insulation Tester	EXTECH	7142	1340019

### Lab Environmental Conditions:

Ambient temperature: 25±3°C

Relative humidity: 55±20%RH

### Test Method/ Specification:

#### (1) Waterproof Test

Test method: According to IEC 60529 Edition 2.1:2001-02--IPX7

Test means: Completely immerse the specimen in water in its service position as specified by client.

Test condition: The lowest point of enclosures is located 1000 mm below the surface of the water

Test duration: 30 minutes

Test Device: As shown in photo 4, 5

- Examine the protection against ingress water of specimen and perform Dielectric Withstanding Voltage Test after this test.

#### (2) Dielectric Withstanding Voltage Test

Applied Voltage: 500 V<sub>AC</sub>

Frequency: 60 Hz

Duration time: 1 minute

Measuring position: As shown in photo 6, 7

Requirement: No flashover, no spark-over, no excess leakage and no break down between the two contacts of all test samples.

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**Specimen:**

Style / Item No.: UT-P209F/ UT-P205M / No.1

Quantity: Total 1 piece

**Test Result:**

1. Examination of product (Appearance check)

Check Item Style / Item No.	Provide protection against ingress water?
UT-P209F/ UT-P205M / No.1	Yes

2. Dielectric Withstanding Voltage Test

Test Item Style / Item No.	Dielectric Withstanding Voltage Test (500 V <sub>AC</sub> / 60 Hz, 1 minute)
UT-P209F/ UT-P205M / No.1	OK






Note: "OK" means no breakdown (leakage current < 0.5 mA)

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Test Photos:

	
<p>1. Appearance of specimen: UT-P209F/ UT-P205M</p>	
	
<p>2. Appearance of specimen: UT-P209F</p>	<p>3. Appearance of specimen: UT-P205M</p>
	
<p>4. Waterproof Test</p>	<p>5. Waterproof Test</p>

Test Photos--Continued:



6. Dielectric Withstanding Voltage Test



7. Dielectric Withstanding Voltage Test

— — — **The End of Test Report** — — —