



## Cable Harness Testers

### 8681 and 8687

- Up to 256 test points
- Fast automatic production testing
- Automatically learn the pin connections
- Statistical reports
- Hipot
- Insulation resistance
- Six standard measurement functions
- 4-wire testing with 8687
- Diagnostic meter mode with 8687

#### Learn the cable

This allows the user to connect to the cable under test and automatically identify the pin connections, saving a great deal of time by not having to enter the pin connections manually and reducing operator error.

#### Fast automatic testing

Once the cable pin connections have been identified up to six different measurements can be selected. The range of measurements includes open/short, conductance, resistance, capacitance, diode and hipot/insulation resistance. Having set-up the measurement parameters the cable harness tester is ready to test, providing a simple Pass/Fail banner for each cable tested. The range of tests available allow any cable to be completely tested for correct wiring and safe construction. It does this at great speed allowing fast throughput of manufactured cable assemblies.

#### Statistical reporting

Onboard statistical reporting allows the operator to gain up to date statistical information on the number of units tested and number of units that have Passed/Failed. In addition a more detailed fail analysis is available showing the number of failures per measurement.

#### 8687 diagnostic meter mode

For the purpose of debugging test sequences or fault finding a broken cable the 8687 provides a facility for individually testing all points on a cable with any of the available tests.

#### 8681

#### 8687

	8681	8687
Measurement functions	Open/Short, Conductance, Resistance, Capacitance, Zener, Intermittent O/S, Intermittent Conductance	Open/Short, Conductance, Resistance, Capacitance, Zener, Intermittent O/S, Intermittent Conductance
Hipot / insulation resistance	700V DC 500V AC (option)	1500V DC 1000V AC
Test Points	128 (256 option)	128
Interfaces	Remote control Printer, RS232	Remote control Printer, RS232
4-Wire testing	N/A	Yes
Meter mode	N/A	Yes
Instrument settings	62 setup files	56 setup files
Statistics report	Yes	Yes
Learn cable function	Yes	Yes
Sequence test	Yes	Yes

#### Print test results

The Cable Harness Testers have remote control, RS232 and printer interfaces as standard, offering a range of options to the user for controlling the instrument, uploading and downloading instrument settings and printing results.

#### Save instrument settings

In addition up to 56 instrument set-ups can be saved in the non-volatile memory in the instrument.

#### Accurate LCR measurements

Offering a higher degree of performance, the 8687 uses a 4-wire connection to the cable under test providing accurate and repeatable measurements of resistance, conductance and capacitance.

#### Complete cable harness test system

Providing high performance, wide range of measurements, fast production testing and simple straightforward operation, at an extremely low price, the 8681 and 8687 Cable Harness Testers provide excellent value to cable harness manufacturers worldwide.

## Test functions

	8681	8687
Resistance	Max. 1 MΩ	0.02 Ω to 10 MΩ
Conductance	Max. 50 Ω	0.001 Ω to 50 Ω
Capacitance	1 pF to 1 μF	10 pF to 1 μF
Zener	0 to 7 V	0 to 7 V
Insulation resistance	1 MΩ	0.1 MΩ to 1.5 GΩ
Hipot	Max 5 mA	Max 5 mA
Open/Short	2 kΩ to 50 kΩ	1 kΩ to 50 kΩ
Intermittent O/S test	2 kΩ to 50 kΩ	1 kΩ to 50 kΩ
Intermittent conductance	Max. 50 Ω	0.01 Ω to 50 Ω

## Advanced functions

- 4-wire measurement (8687 only)
- Programmable sequence test
- Auto pin search
- Self diagnostic
- Self calibration

## Basic accuracy

±5%

## Scanning mode

Auto / Short switchable

## Measurement speed

0.1s basic

## Test signal

Test signal level 5V ±5%

## Insulation / Hipot

8681  
200 - 700V DC  
100 - 500V AC (Option)  
8687  
50 - 1500V DC  
100 - 1000V AC

## Display & sound

320 x 240 graphic LCD Display.  
Pass/Fail LED indicator.  
Internal speaker

## Connections

128 test points  
256 points optional on 8681 only  
Hipot calibration +/- output  
Auto pin-search jack

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## Front panel control buttons

SysKey / FastKey / EditKey / SoftKey

## I/O interface

Parallel printer interface  
Remote control interface  
RS232 Interface

## Test Program Memory

62 setup files (8681)  
56 setup files (8687)

## Power Supply

115/230 V AC ±10%, 50/60 Hz

## Temperature & Humidity

15°C to 35°C, RH 75%

## Dimension (W x H x D)

425 x 190 x 350 mm

## Weight

Approx. 14 kg (without accessories)

## Cable Capacitance

1 μF max.

## Order codes

### Description

#### 8681 Cable Harness Tester

700 V DC 128 test points.  
Supplied with user manual  
power cord, auto pin-search probe  
and 2-in-1 64 pin DIN-to-horn converter

#### Options

256 test points /C2  
500 V AC hipot /H1  
Chinese language /N

#### 8687 4-Wire Cable Harness Tester

1500V DC IR & 1000V AC hipot, 128 test points  
Supplied with user manual  
power cord, auto pin-search probe  
and 2-in-1 64Pin DIN-to-horn converter.

#### Option

Chinese language /N

### Accessories 8681 and 8687

2 in one 64 Pin-to-Horn Converter AV-8685DH1  
Fixture Flat Cable (30cm) AK-8600F1  
Calibration Fixture Set KB-8685K1

### Order code

1J8681

1J8687