

# Automatic cable tester HCK 800M-6500

Model:



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**Low and High Voltage  
Power Supplies**

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**This special model  
has been developed  
and manufactured  
completely according  
to the customers  
specification.**

## Features / Application

Automatic cable tester with good/bad evaluation for test of multi conductor cables. Basis is a capacitor charger power supply. All tests may be carried out manually or as an automatic process controlled by a microcomputer.

## Two test modes

1. Continuity test (measurement of resistance 0 - 1000  $\Omega$ ) for cables with up to 5 wires. Measured resistance value out of an adjustable window for at least one of the wires will result in a "failure" signal.
2. Isolation test with 0 - 6.5 kV and max 250 mA between up to 5 wires. The ramping-up speed of the test voltage is selectable in 5 steps between 50V/sec and 3000V/sec. A timer allows to adjust the test duration. In case of a break through (current exceeds an adjustable trip level) a "failure" signal is generated and the unit will be switched off. The current trip may be bypassed by a switch, allowing a "burn" of the faulty place with up to 250 mA.

If all tests are completed, a "good" signal will be generated and indicated by a green lamp. A "failure" signal will be indicated by a red lamp. An additional indication shows, which of the wires is faulty and if it is the isolation test or the continuity test, which did fail.

## Control

All functions for the manual or automatic test may be carried out using the front-panel controls. Alternatively an external computer control by means of an IEEE488 interface is possible.

## Safety functions

Internal and external interlock loop for switching off the unit in case of a fault or a removal of safety precautions.

Built-in dump switch (relay and semiconductor) for a fast discharge of the output down to a safe voltage value.

A special indicator lamp shows when the output is safe (voltage less 50V).

## Technical data

Mains supply:	230 V $\pm 10\%$ ,	47 - 63 Hz
Isolation test:	0 - 6,5 kV,	0 - 250 mA
Continuity test:	0 - 1000 $\Omega$ ,	20 mA
Environment temperature:	0 to 40°C	
Dump switch:	U < 50 V in < 5 sec. for an external capacitance < 6 $\mu$ F	

## Design

Case:	19" slide-in unit, 12 HU (534 mm), 550 mm deep
Weight:	15 kg