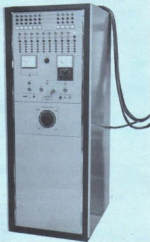


CABLE TEST SET

MODEL CTS -1

- CONTINUITY TESTS
- HIPOT TESTS (up to 3 kV)
- UP TO 4 WIRES PER CABLE
(plus ground and armour)
- UP TO 10 CABLES
- AUTOMATIC OPERATION
- INDIVIDUAL FAILURE
INDICATOR LAMPS



DESCRIPTION

Model CTS-1 Cable Test Set has been designed to test up to ten power cables each of up to four wires, plus a ground and an armoured covering. Continuity of all six circuits is checked first, followed by a dielectric strength (hipot) test of up to 3000 V. Operation is fully automatic; the operator merely presses the START button. If there is any

failure, the tester stops, indicator lights show the nature of the fault so it can be recorded. The operator then presses the CONTINUE button and the test proceeds. Lamps showing the GOOD or BAD state of each cable remain on until the entire sequence has been completed. Provision is made for adequate interlocks to ensure maximum safety.

SPECIFICATIONS

INPUT	240 V, 60 Hz, single phase, approx. 20 A maximum
CABLE UNDER TEST	Maximum 4 wires, plus ground, plus armour
NUMBER OF CABLES	Maximum 10
CONTINUITY TEST	1 to 6 tests, selectable
CURRENT	Approx. 1 A
HIPOT TEST	1 to 4 tests, selectable One wire (hv) to all others (ground)
VOLTAGE	0 - 3 kV ac
CURRENT	to 1 A
TRIP	95 - 1000 mA adjustable in 2 ranges
TIME	1 - 60 s adjustable (from inside back panel)
INDICATOR LAMPS	<div> Test Selected TEST ON GOOD or BAD for each test Cable Selected GOOD or BAD for each cable HV ON (individual wires — 40 lamps) READY MAIN POWER — ON — LINE FAULT CONTROL POWER — ON — SAFETY SWITCH OK </div> } for tests on an individual cable
OTHER PANEL CONTROLS	<div> START CONTINUE CABLE ADVANCE LAMP TEST SET HV CHECK LEAKAGE RESET (key switch) </div> } push buttons <div> Trip Current Sensitivity (2 ranges, with switch) ADJUST HIGH VOLTAGE Main power circuit breaker (plus 3-A fuse for control power) </div>
METERS	Voltmeter 0 - 3 kV ac Ammeter 0 - 1 A ac Accuracy $\pm 2\%$ of full scale
SPECIAL FEATURES	Safety interlock switch on rear door of cabinet. Provision for external safety interlock switches.
SIZE	75 W x 185 H x 71 D cm (approx.) (30 W x 73 H x 28 D in)

CABLE TEST SET

MODEL CTS-2

- CONTINUITY TESTS
- HIPOT TESTS (up to 5 kV)
- UP TO 4 WIRES PER CABLE
(plus ground and armour)
- AUTOMATIC OPERATION
- INDIVIDUAL FAILURE
INDICATOR LAMPS



DESCRIPTION

Model CTS-2 Cable Test Set has been designed to test power cables of up to four wires, plus a ground and an armoured covering. Continuity of all six circuits is checked first, followed by a dielectric strength (hipot) test of up to 5000 V. Operation is fully automatic; the operator merely presses the START button. If there is any failure, the tester

stops, indicator lights show the nature of the fault so it can be recorded. The operator then presses the CONTINUE button and the test proceeds. Lamps showing the GOOD and BAD state of each wire remain on until the entire sequence has been completed. Provision is made for adequate interlocks to ensure maximum safety.

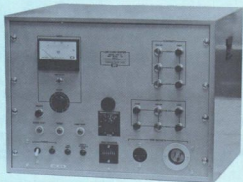
SPECIFICATIONS

INPUT	240 V, 60 Hz, single phase, approx. 25 A maximum
CABLE UNDER TEST	Maximum 4 wires, plus ground, plus armour
CONTINUITY TEST	1 to 6 tests, selectable
CURRENT	Approx. 1 A
HIPOT TEST	1 to 4 tests, selectable One wire (hv) to all others (ground)
VOLTAGE	0 - 5 kV ac
CURRENT	to 1 A
TRIP	95 - 1000 mA adjustable in 2 ranges
TIME	1 - 60 s adjustable (from inside back panel)
INDICATOR LAMPS	Test Selected TEST ON GOOD or BAD for each test HV ON (individual wires) READY MAIN POWER — ON — LINE FAULT CONTROL POWER — ON — SAFETY SWITCH OK
OTHER PANEL CONTROLS	START CONTINUE RESET LAMP TEST SET HV CHECK LEAKAGE Trip Current Sensitivity (2 ranges, with switch) ADJUST HIGH VOLTAGE Main power circuit breaker (plus 2-A fuses for control power)
METERS	Voltmeter 0 - 5 kV ac Ammeter 0 - 1 A ac Accuracy $\pm 2\%$ of full scale
SPECIAL FEATURES	Safety interlock switch on rear door of cabinet. Provision for external safety interlock switches.
SIZE	61 W x 185 H x 62 D cm (approx.) (24 W x 73 H x 24½ D in)

LINE-CORD TESTER

MODEL LCT-3

- CHECKS
CONTINUITY
POLARITY
DIELECTRIC
STRENGTH
- AUTOMATIC
OPERATION



DESCRIPTION

Model LCT-3 Line-Cord Tester is an automatic test set to check continuity, polarity and dielectric breakdown on three-wire line cords.

Continuity resistance is measured and compared to a pre-set value in the range 0.1 to 0.4 Ω . The test limits may be set individually for each wire.

Dielectric strength is tested for all wire combinations up to 2500 V ac.

Many variations are possible to suit your individual needs.

SPECIFICATIONS

INPUT	120 V, 60 Hz, single phase, 3 A (approx)
CONTINUITY TEST	<p>Ground (green), black and white wires are checked for continuity at about 15 A ac.</p> <p>The resistance limit for each (independently) may be set from about 0.1 to 0.4 Ω. The ground wire adjustment is made by a front-panel control. The other two are factory set at 0.4 Ω, but may be changed by an internal adjustment.</p> <p>Crossed wires are identified as a fault.</p>
HIPOT TEST	<p>0-2500 V ac</p> <p>5-95 mA trip current (internal adjustment)</p> <p>2 tests: hv on black wire while white and green are grounded; hv on white wire while black and green are grounded</p> <p>Duration: 1 s (each test)</p>
INDICATOR LAMPS	<p>Continuity: TEST ON & FAULT (3 of each)</p> <p>Hipot: HV ON, TEST ON & FAULT (2 of each)</p> <p>POWER ON, LINE FAULT, SAFETY INTERLOCK OPEN, READY</p>
TEST SOCKETS	<p>Front-panel mounted plug and receptacle. (standard 120-V, 25-A type)</p> <p>A separate test jig is required for production testing.</p>
SPECIAL FEATURES	<p>A START TEST button starts the test sequence when pressed. If there is a fault, the appropriate FAULT lamp lights and the test sequence stops.</p> <p>Audible and visual fault indication.</p> <p>A RESET button must be pressed before the next cable may be tested (if there has been a failure).</p> <p>A TEST COUNTER shows the total number of test operations. It cannot be reset to zero.</p> <p>The total test time is about 2.5 s.</p> <p>A LAMP TEST button checks all incandescent panel lamps.</p> <p>Provision for external safety interlock switches.</p>

The test sequencing circuitry is exclusively solid state for high reliability. Two reed relays are used for high-voltage isolation, but they are opened or closed only when hv test power is off.

Conventional relays are used only in conjunction with some fault circuitry, which presumably will be needed rarely.