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Authorized distributor of **b2 electronics** in the Kingdom of Saudi Arabia

B2 ELECTRONICS

CTL12

Cable Sheath Tester & Fault Locator — smartCFL®

The b2 electronics CTL12 is a cable sheath tester and fault locator, and the first member of b2's smartCFL® family for cable fault location. It combines DC testing, fault pre-location with a high-voltage bridge, and fault pinpointing in a single device, so one field kit covers the job from sheath testing to finding the exact fault position.

It delivers up to 12 kV DC (negative polarity) and up to 50 mA, with an output load of up to 25 µF and continuous operation with no thermal limit. Pre-location runs automatically using proven bridge techniques, and a guided step-by-step workflow leads to the most suitable fault location method. With the optional CPD1 pinpointing device, whose Pulse-Lock function suppresses interference by locking onto the CTL12 pulse frequency, and foldable step voltage probes, the system gives a complete workflow from testing to precise pinpointing. The integrated NiMH battery (80 Wh) and the IP67 housing (lid closed) make it suited to remote measurement locations.



OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT LOAD	WEIGHT
12 kV DC	**Up to 50 mA**	**Up to 25 µF**	**12.8 kg**

KEY FEATURES

- 3 in 1: DC/sheath testing, fault pre-location (HV bridge) and pinpointing
- Up to 12 kV DC (negative polarity), up to 50 mA adjustable
- Output load and discharge capacity up to 25 µF
- Automatic, high-accuracy fault pre-location
- Guided step-by-step fault location workflow
- One HV test lead and color-coded connectors
- Integrated 80 Wh NiMH battery or 100–240 V AC supply
- IP67 housing with lid closed, 12.8 kg
- Dual discharge device, PE interlock, external interlock, key switch
- Optional CPD1 pinpointing set with Pulse-Lock function

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TECHNICAL DATA — CTL12

Output voltage	DC test 0.1–12 kV; fault pre-location (HV bridge) 0.1–12 kV; pinpointing 0.1–12 kV (negative polarity)
Output current	DC test 1–50 mA; pre-location 1–25 mA; pinpointing 1–50 mA (adjustable)
Output load	Up to 25 µF
Duty cycle	Continuous, no thermal limitation
Test types	DC test, fault pre-location (HV bridge), pinpointing
Test modes	Manual mode, auto mode for fault pre-location
Arc management	Burn on arc, trip out on arc
Compliance	Sheath testing according to IEC 60502-2, IEC 60229, IEEE PS32
Metering	Voltage: 0.1 kV resolution, ±0.1 kV ±1% of reading; current: 1 / 10 / 100 µA resolution, ±10 µA ±1% of reading; resistance 0.1 MΩ–1 GΩ
Power	100–240 V AC, 50/60 Hz, max. 10 A; NiMH battery 80 Wh
Safety	Dual Discharge Device (max. 25 µF), PE interlock (no HV without PE), external interlock, key switch
Data	USB Type-C, built-in memory, reports to USB drive
Environment	Operating −20 to +55 °C, IP67 (lid closed)
Dimensions / weight	417 × 221 × 334 mm / 12.8 kg

SCOPE OF SUPPLY & OPTIONS

Included	CTL12 test set, 4 m HV test lead, grounding cable, jumper cables, colored dolphin clips, power cord, spare key, documentation on USB
Optional	CPD1 pinpointing device set, foldable step voltage probes, foldable A-frame step voltage receiver, 80 A clamps

Technical data from b2 electronics preliminary datasheet DHV1490 Rev00. Specifications are subject to change by the manufacturer without notice.

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