

# AUTOMATED CABLE TEST SYSTEM (ACTS) – COMMUNICATION VERSION



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Shop equipment

## PRODUCT OVERVIEW

The Ekyrail Automated Cable Test System (ACTS) – Communication Version is designed for railway maintenance facilities that require reliable testing combined with advanced data management. The system automatically tests MU 27-pin locomotive jumper cables, verifying continuity, dielectric isolation between conductors, and insulation to ground.

A fully automated test sequence scans every conductor combination to identify faults and wiring problems. A rapid pre-scan test can verify a functional cable in less than two minutes, while the advanced Deep-Scan feature automatically identifies the specific pins responsible for insulation breakdown or leakage.

The integrated computer and software interface display results in a clear PASS/FAIL format and store the test results in a database. The communication-enabled version allows test data to be exported and integrated into maintenance records, improving traceability and quality control for railway operations.

## PRODUCT SPECIFICATION

- Input supply: 110–120 VAC @ 0.75 A (fused)
- Output voltage for conductor-to-conductor dielectric tests: 250 VDC  $\pm 5\%$  @ 20 mA
- Output voltage for continuity tests: 12 V @ 150 mA
- Output voltage for conductor-to-ground dielectric tests: 250 VDC  $\pm 5\%$  @ 20 mA
- Continuity test accuracy:  $\pm 5\%$  impedance @ 150 mA
- Dielectric leakage threshold (pin-to-pin): 200 k $\Omega$   $\pm 5\%$  (>210 k $\Omega$  = PASS, <190 k $\Omega$  = FAIL)
- Dielectric leakage threshold (pin-to-ground): 150 k $\Omega$   $\pm 30\%$
- Operating temperature: 0°C to 40°C
- USB 2.0 connectivity
- Windows-based software for test control and report generation
- LED status indicators for "Power" and "Busy"

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