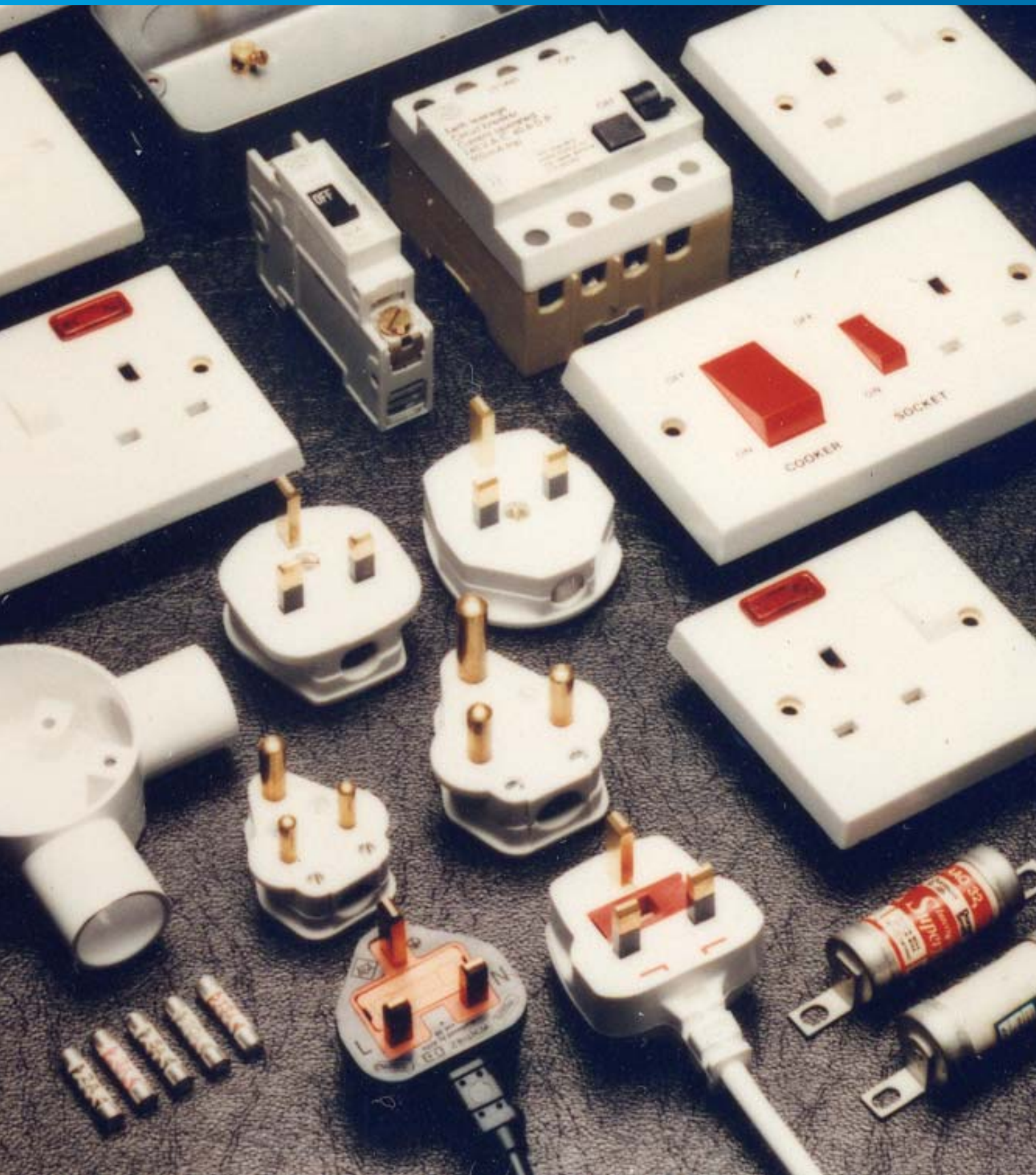


ERA Technology Electrical Testing

Cobham Technical Services
Engineering Consultancy Services

COBHAM

The most important thing we build is trust



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Conformance and Performance to ensure electrical protection devices conform to appropriate standards - with the option of independent assessment and design support.

Cobham Technical Services offers a comprehensive and independent medium power testing service that provides confidence that electrical protection devices conform to appropriate standards. In addition, where problems in conformance are identified, expert advice is available with any necessary design modifications.

With over 50 years' experience of helping customers design electrical protection devices correctly and safely; Cobham can develop and undertake bespoke testing to meet specific requirements. Cobham can also provide development testing and design validation to help speed products into the market place.

Lightning Protection Testing of Surge Protection Devices (SPD)

The most recent service added to the Cobham Protection Testing portfolio is Lightning Protection Surge Testing. This covers SPD's incorporated into electrical wiring accessories. These can now be tested at Cobham's electrical protection devices laboratory. The pulse shapes available are 8/20µs short-circuit at up to 4kA and 1.2/50µs open-circuit 200V-8kV.

Electrical Safety Testing

Cobham Technical Services also provides safety testing for manufacturers and organisations such as Trading Standards departments. This is to ensure quality and

safety of products after initial product testing and certification. It is important that electrical products conform to their relevant standards as failures of counterfeit products can lead to fatalities.

Brief Specification of Equipment

- single/three phase supplies 90V-1.1kV, 10A-6kA (1.1 MVA)
- single phase supply 42.5 kA @ 35V for < 2 seconds high and low speed data acquisition systems for recording voltages, currents and temperatures
- testing at "point-on-wave" using state-of-the-art electronic switching unit
- equipment for SPD testing: Schaffner Impulse Test Set 8/20µs short-circuit at up to 4kA and 1.2/50µs open-circuit 200V-8kV
- a comprehensive collection of UKAS calibrated Instrumentation is also available

Capability

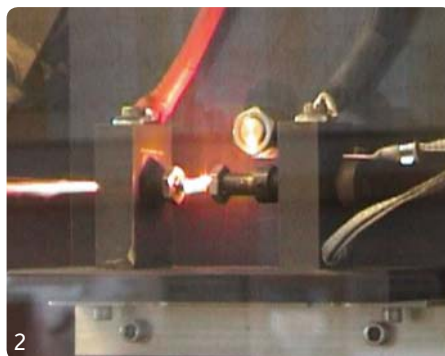
Complete compliance and type tests for the following standards and IEC equivalent standards:

- fuses BS 646, BS 6885, BS 1362, BS EN60127, BS EN 60269, BSEN60691
- switchgear BS EN 60439 and BS EN 60947
- circuit breakers BS EN 60898

- portable residual current devices (PRCD'S) BS 7071
- AC meters BSEN 62053
- earth clamps BS 951
- residual current circuit breakers (RCCB'S) BS EN 61008 and BS EN 61009
- thermal links BSEN 60691
- cut-outs BS 7657
- Surge Protection Devices (SPD) BS EN 61643-21, BS EN 61643-11, BS EN 60950-1, BS EN 60065, BS EN 60335-1, BS EN 60432-1, BS EN 61010-1, BS 1363

Quality Assurance

The need for confidence in the resulting data is paramount and Cobham addresses this by holding a company-wide BS EN ISO 9001 certification. In addition various technology specific certifications/accreditations are held, in particular the Medium Power Test facility holds BS EN ISO 17025, ISO Guide 25, and BS EN 45001 accreditations, is accredited by UKAS (registration 0512) and is also an ASTA and BSI approved laboratory.



- 1 Fuse failing a test to BS1362
- 2 Electrical arc puncturing a fuse endcap

For further information please contact:

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