

Batteries, Cables & Connectors

In complex platforms the latest capabilities often receive all the attention, but what if electrical power is lost or not available at the critical moment? When it's this important - **nothing should be left to chance**

QinetiQ Batteries, Cables & Connectors Group (BCC) has a broad range of expertise supported by in-house testing facilities to meet air, land and sea applications for military and commercial industries.

Our services include impartial advice with assurance of confidentiality. QinetiQ can interpret scientific trends and new technology solutions to satisfy customer enquiries on relevance, validity and quality. Our experts have a diverse knowledge base and using firm scientific principles are able to provide an intelligent and robust analysis of literature reports, electronic media and press releases on a variety of topics from primary and rechargeable batteries to emerging energy storage technologies.

Facilities include Hazard test capabilities with digital stills and video surveillance as required. Our hazard test facility can undertake independent product assurance and safety testing.



Controlled Cell Abuse Tests

Batteries

- Key provider of technical support to cover a wide range of battery chemistries and technologies.
- React to emergent in-service issues to support customers.

- Representations through NATO, BSI (British Standards Institute), IEC (International Electrotechnical Commission).
- Comprehensive laboratory facilities to undertake testing of all types of battery and associated equipment including fuel cells.
- Tests range from standard discharge cycles through to hazardous conditions including environmental and dynamic assessments.
- Destructive assessments under abuse conditions including bullet strike.
- Representing customers in technical assurance at National and International meetings to explore capabilities and support standardisation
- Provision of independent and impartial support



Vibration Facility

QinetiQ follows robust procedures for the management of qualified products. This includes:

- Periodic verification of products, as determined by its own procedures
- Supplier visits, contract reviews and audits, as required



Range of Battery Technologies

About QinetiQ BCC

QinetiQ's extensive experience in battery technology, energy generation & storage and portable power has been built through delivering services and solutions to a large number of customers across multiple applications for over 25 years.

QinetiQ's experts can provide technical advice on current commercial products and make independent, impartial recommendations on their suitability. This advice can cover many aspects such as technical performance, application and manufacturing supply chain. Our facilities can support independent, practical assessment of materials, components, cells and systems.

The combination of our highly experienced battery technologists, significant investment in battery specific facilities and working with the very latest equipment enables us to deliver a broad range of proven services, which include:

- Technical Consultancy
- Hazard Testing
- Cell & Battery Evaluation
- Investigation & Incident Support

Cables & Connectors

We have the capabilities to carry out independent testing of all cable types, including common military and civilian airborne, marine and land systems applications.

We provide independent advice and testing on cable and interconnect applications, in-service issues and ageing platform assessments. Our People Who Know How are Technical Specialists who are members of British Standards.

In our Independent Test Laboratory we have undertaken these tests for customers:

- Wet and dry arc tracking tests
- Qualification Approval
- Research and Development
- Environmental, Electrical, Mechanical Evaluation and Inspection
- Test Method Development
- Defect Investigation and Analysis
- Vibration, Shock, Temperature & Humidity
- Technical Specialists are members of British Standards
- Customers include UK MOD, Airbus, BAE, Leonardo, Rolls Royce as well as most cable and connector manufacturers in Europe and the USA

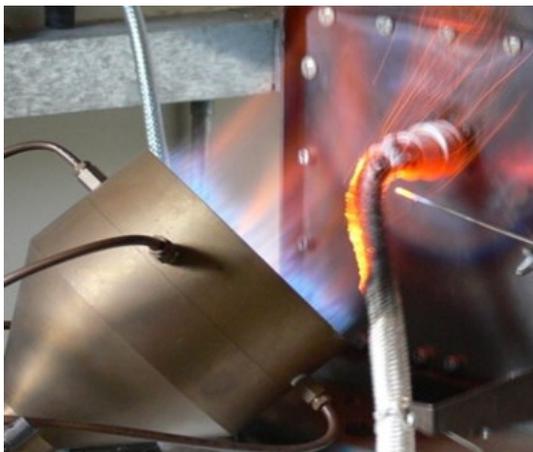
BCC operate under QinetiQ's ISO 9001, H&S Management 18001 Accredited and Environmental Accreditation to ISO14001.



Connectors



Dry Arc Tracking



Flame Resistance Test



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