

European leader in advanced technology solutions



consult. design. integrate.

About Acal BFi

Acal BFi are Europe's leading provider of advanced technology solutions, operating in 12 countries throughout Europe.

We offer products across specialist technology areas, each with a dedicated pan-European sales team. Customers use our design-led expertise and expert consultation services to find the best technology solutions for their design, prototype and production needs.

Part of the Acal Group

Key acquisitions strengthen our technical expertise

To expand our design and manufacturing expertise, our parent company Acal plc have acquired several design and manufacturing companies in the last several years. Products supplied by these manufacturers are a strong part of our offer.



Designer and manufacturer of customised magnetics



Designer and manufacturer of power and magnetics



Designer and manufacturer of customised fibre optic cabling



High-quality ESD shielding, EMC products and services



Specialist custom transformer manufacturer



Designer and manufacturer of embedded computers



Custom-made power supply specialist



Designer and manufacturer of custom cable assemblies and connectors

Technology expertise

- Cables and Connectors
- Electromechanical
- Embedded computing
- Fibre optics
- Imaging
- IoT and Wireless modules
- LEDs and Lighting
- Magnetic components
- Photonics
- Power
- Semiconductors, RF and Frequency control
- Sensors

Acal BFi – the complete solution provider

We are the complete solution provider for specialist electronic applications and components, offering strategic design consultancy advice, bespoke manufacturing, and custom products and solutions.

Regardless of your timescales, budget or expertise, we can provide the right solution for you.

We support every sector across Europe – including medical, military, defence, communications, and transportation, industrial and renewable energy – with our technical solutions and leading-edge products.

Consult

Our design consultancy supports you through every stage of the design development process. Our in-house technical experts have experience in all sectors and applications, with engrained product knowledge across our entire portfolio. They listen and understand your exact requirements before providing the strategic advice required to develop market-leading products and solutions.



Design

With dedicated assembly facilities, we provide in-house design, development and final assembly for a wide range of products and components. We offer unique, bespoke products and enhanced custom solutions that meet any requirement with all relevant approvals and accreditations. We can offer thousands of flexible configurations with all necessary accessories.



Integrate

Our partnerships with the world's leading suppliers enable us to deliver a product portfolio like no other. We provide access to exclusive, ground-breaking technology from niche, sector specialists and the latest products from top-tier suppliers with logistics solutions designed around your requirements.



Contact us

To find out how your design, product or solution can benefit from our expertise, experience and technology, contact your local office. Full details are available on the back of this brochure.

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Cables and Connectors



We are a specialist in industrial, harsh-environment and high-performance interconnect products, including military-grade bespoke solutions.

With dedicated assembly facilities, we offer in-house connector and fibre-optic design, development and assembly with all relevant approvals and accreditations, including ISO9001, ISO13485, MIL-DTL-38999, JN and PANAIA.

An established Amphenol Assembly Partner, we have produced over five million connections, supporting customers in harsh environment and ruggedised applications for over 50 years.

Key technologies

- Copper and fibre
- High density and hybrid
- Ruggedised and harsh environment
- PCB connectors
- High power / voltage
- RF and microwave
- High-speed data

Custom services

- Cable and connector assembly
- Amphenol connector assembly

Electromechanical



We offer a diverse range of HMI, thermal and passive components and solutions.

We provide every electromechanical component, from board / panel mount switches to EMC line filters and shielding products and from a specialist single component to a bespoke HMI interface.

We also offer IEC inlets, thermal circuit breakers and fuses, multiple thermal interface materials and can design and produce bespoke silicone rubber heater mats with full UL/VE approval.

Key technologies

- Switches and keypads
- Relays and circuit protection
- Thermal interface products
- EMC/EMI filters and shielding
- Fans
- Capacitors
- Buzzers and enclosures

Custom services

- Bespoke HMI solutions
- Custom silicone rubber heating elements

Embedded computing



We support a wealth of form factors and bus standards with a portfolio of products for all environmental conditions, including COM E, PCIe, cPCI, VPX, VME and aTCA.

With more than 30 years experience in embedded computing, our technical team will find the best solution for your specific requirements.

As part of our customer commitment, we provide full end-of-life support and advice on the best migration path for your situation or application, with complete support from our technical team.

Key technologies

- Single board computers
- Embedded computers
- Wide range of I/O solutions including avionics and FPGA
- Full custom (integrated) solutions

Custom services

- Assembly and integration
- Design and engineering
- Software installation and test

Fibre optics



Our range of standard and cutting-edge optical technology includes transceivers, sub-assemblies, photodetectors, gas-sensing solutions, laser modules and analogue communication components.

Our offer includes both standard and custom solutions, optimised to specific customer requirements and designed to comply with international standards and MSAs.

Our high-performance fibre is available with speciality coating, buffering and cabling material choices, perfectly suited to high temperature, harsh environment, fluid (including solvent and fuel), smoke and toxic environment applications.

Key technologies

- CATV
- Connectors
- Lasers / TOSA
- Parallel optics
- Passive optical devices
- Photodiodes / ROSA
- Plastic optical fibre
- Specialty fibre / cables
- Splitters
- Transceivers

Custom services

- Cable and connector assembly
- Connector terminations

Imaging



We provide world-class thermal imaging solutions for every sector, including security, CCTV, machine vision, metrology, maintenance, scientific and life-science applications.

Our partnerships with class-leading, thermal-imaging manufacturers provide you with the latest, leading-edge technology.

Our team of technical experts will find the best solutions that meet your specific technical needs, supporting you throughout the design and test process. This includes equipment loans, field demonstrations and access to our Imaging Competence Centre (ICC).

Key technologies

- Cameras
- Hyperspectral imagers
- Shutters
- IP CCTV cameras
- Long-range night vision
- Thermal imagers

Custom services

- ICC
- OEM camera module integration
- Repairs and calibration

IoT and Wireless modules



We support all wireless applications with impartial, technical support and state-of-the-art solutions from the world's leading manufacturers.

Our comprehensive portfolio is provided with the expertise of an in-house technical team and access to our European Wireless Technical Competence Centre (EWTCC).

From standard components to complete customised packaged solutions, every aspect of IoT and wireless module communication is covered. We also support all air interface standards, including Bluetooth, WiFi, ISM, GPS and 2G / 3G / 4G cellular connectivity.

Key technologies

- Antennae
- Embedded networking
- GPS navigation/timing
- Licence-free radio solutions – GSM modules (2G / 3G / 4G / LTE), ISM modules, WiFi / Bluetooth
- Point-to-point and multipoint

Custom services

- EWTCC
- Wireless module design

LEDs and Lighting



We provide an extensive range of LED and solid state lighting solutions, including circuit board LEDs, panel-mount LEDs, UV LEDs, IR LEDs, lighting LEDs and light engines. Our specialist engineering team can also take your concept design and develop an LED assembly from an initial brief to suit any application.

We use our extensive knowledge of LEDs, PCB materials, thermal design, optics and LED driver techniques to achieve a bespoke LED design precisely matched to your application.

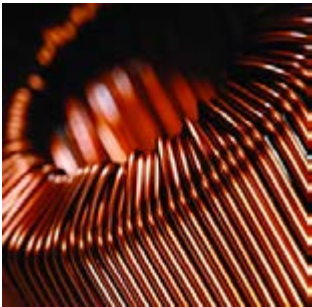
Key technologies

- Circuit boards
- Light engines
- Highways / hazardous areas
- Lighting LEDs
- Panel mount
- UV LEDs

Custom services

- Custom LED lighting solutions

Magnetic components



We provide a comprehensive range of soft magnetic cores and wound inductive components. With partnerships with world-class manufacturers and a family of specialist, industry-leading sister companies, we can source, customise, supply and integrate magnetic components for any project.

With expertise for all applications and technologies and access to all core materials, sizes and shapes, we also offer a complete customisation service, providing the best solution for any customer requirement.

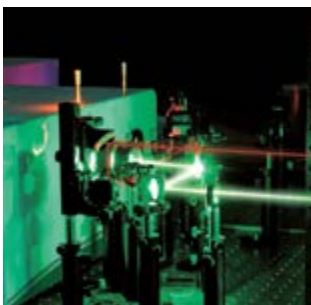
Key technologies

- Magnetic cores (Fe-powder, alloys, ferrite, amorphous, nanocrystalline)
- Wound inductive components (aircore coils, chokes, inductors, antennae, transformers)
- Accessories (baseplates, bobbins, housings, clamps)

Custom services

- Custom design / manufacturing of inductors and transformers
- All shapes and mounting technologies (toroid, E, U, I, pot, planar, SMT, THT, open-frame)

Photonics



As one of Europe's largest teams of photonics specialists we offer state-of-the-art components, tools, systems and resources for photonics design.

Since 1973 we have worked with leading photonics manufacturers to provide access to the latest developments and technology. Our combination of comprehensive technical experience, commercial strength and local support ensures we find the best solution at the best price for your specific needs.

We can also develop custom engineered laser solutions for specific requirements and provide specialist optical coating services.

Key technologies

- Lasers
- Laser optics
- Instrumentation for lasers
- Opto-mechanics
- Spectroscopy and photometry
- Control for lighting and display

Custom services

- Installation, calibration and repair service
- Custom precision optics
- Opto-mechanical sub-assemblies

Power supplies



With over 40 years of technical experience designing and providing leading solutions within the European market, we offer a comprehensive range of power supply and converter products and solutions.

We supply innovative power supply solutions from leading manufacturers, ranging from 0.25W to 25kW, in standard and customised units. We also provide exceptional power solutions with the full support and expertise of our in-house design and customisation centre.

Key technologies

- AC/DC internal, external and modular power supplies
- DC/DC converter modules
- AC/DC inverters

Custom services

- Full custom power supplies
- Modified standard power supplier
- Configuration service for modular power supplies

Semiconductors, RF and Frequency control



With the full support of an in-house technical team, we provide everything you need to develop RF systems. Our comprehensive portfolio includes the latest cutting-edge technology from world-class suppliers in semiconductors, RF and frequency control.

We manage a wide range of frequency control products, from cost-effective watch crystals to the most stable oscillators available in the world today. Included in our extensive portfolio are MEMS oscillators, micro controllers and some of the world's small chipset solutions, ideal for wearable technology.

All our solutions are fully customisable to your application and are provided with the expert knowledge to get the most from your design.

Key technologies

- Analogue and mixed signal
- Amplifiers
- Attenuators
- Ceramic resonators
- Couplers and dividers
- Crystals and oscillators
- Diodes
- Filters
- OCXOs, TCXOs, VCOs, VCXOs, VCTCXOs and PLLs
- RF passives and switches
- RF FEM and filter solutions
- Real-time clocks

Custom services

- Custom filters
- Custom VCOs, PLLs and VCXOs

Sensors



With our comprehensive portfolio of sensors you can detect, measure and monitor every possible parameter under any condition.

Our sensors range from the smallest, low-power MEMS devices for IoT applications to very high-accuracy sensors for industrial and harsh environment applications.

With strong supplier relationships and our expertise in sensor technology and products, we can help and support you with every stage of your design, from sensor selection, to providing a bespoke sensor-module solution.

Key technologies

- Motion
- Airflow and gas
- Pressure
- Temperature
- Humidity
- Dust / particle
- Combination (of factors)

Custom services

- Custom sensor solutions
- Bespoke solutions



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