acal bfi

Cables and Connectors

European leader in advanced technology solutions
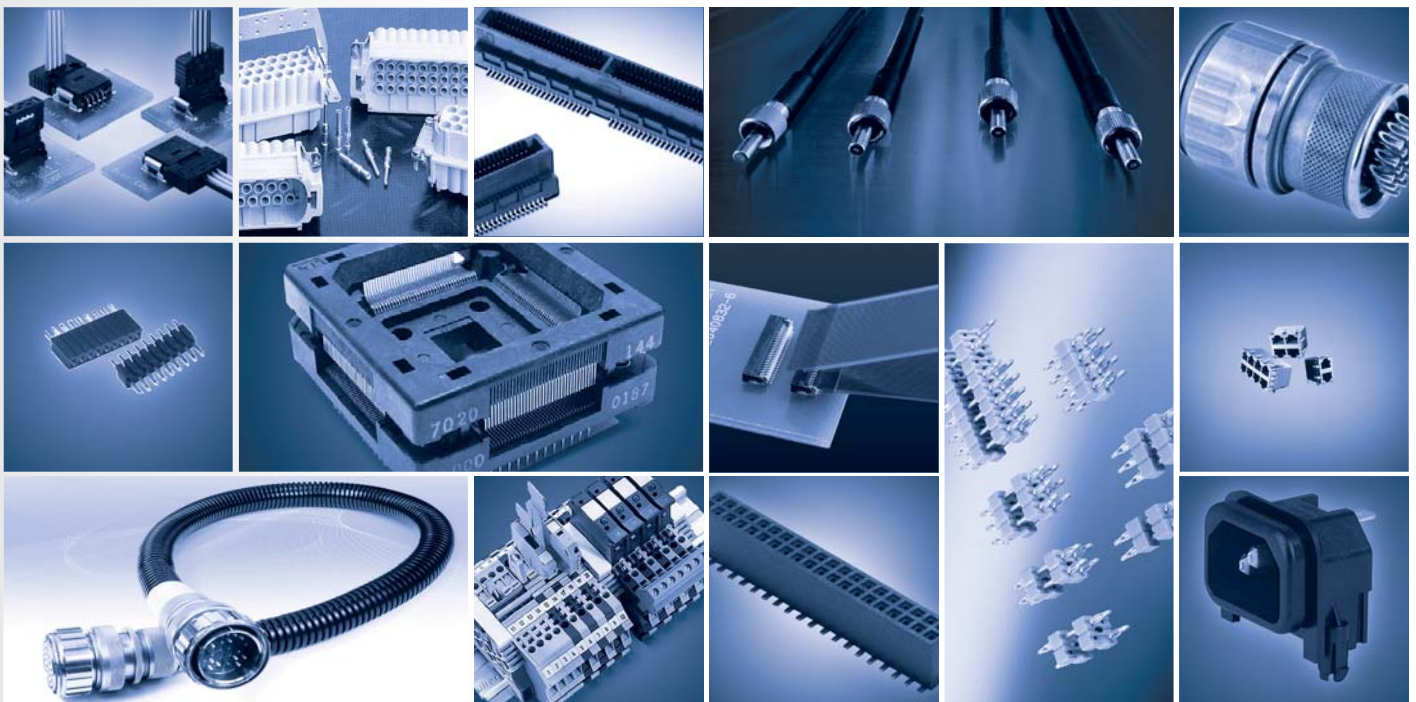
About Acal BFi

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.

Get in touch

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Products and support

Cables and Connectors	Electromechanical
Embedded computing	Fibre optics
Imaging	M2M and Wireless modules
Magnetic components	Photonics
Power	RF and Frequency control
Semiconductors	Sensors

Delivering cutting-edge solutions and expert services in cables and connectors

Our experience in the design and manufacture of cable assemblies, harnesses and flexes combined with our comprehensive portfolio of leading cable and connector technologies, means we can deliver the best interconnection systems for your application.

We provide assistance with all stages of your project, from sourcing the most cost-effective components via our long-established and close supplier relationships, to complete design and assembly services.

With an in-house, purpose-built, ISO9001 custom assembly centre, established capability and long-standing partnerships with leading suppliers, we have the resources and expertise to provide your custom cable and connector requirements.

We offer:

- **assembly of circular connectors** to manufacturers' specifications

- **a complete end-to-end service custom cable assembly** – application ready, standards compliant, tested and delivered

- **fibre optic connector expertise** – we provide a consultative design service which includes technical drawings, sample assemblies and fibre and copper cable assemblies, and

- **hybrid copper/fibre assemblies** – from board level to rail and military, we offer a complete solution.

Custom cable and connector service

Our partnerships with leading suppliers and our established in-house expertise, coupled with a purpose built custom assembly centre, means we have the resources and expertise to fulfil your custom cable and connector requirements. We have access to a full portfolio of cables and connectors, including IP69K-rated products for the harshest environments, Cabcon international power cords and we offer full technical, design, assembly and logistics services.

Range		MIL-C specification	UK MOD pattern	BS specification	Panavia specification	JN specification	48-hour assembly
	62GB	MIL-DTL-26482 (Series 1)	105				✓
	162GB	MIL-DTL-26482 (Series 1)	603				✓
	602GB	MIL-DTL-26482 (Series 2)	602		PAN6432-1 PAN6432-4		✓
	608		608				✓
	LJT (38999)	MIL-DTL-38999 (Series 1)	616	BS9520 G0001			✓
	SJT (38999)	MIL-DTL-38999 (Series 1)	615		PAN6433-2	JN1003	✓
	D38999/TV	MIL-DTL-38999 (Series 3)		BS9520 G0003		JN1034	✓
	97/AMS	MIL-C-5015					✓
	711	MIL-STD-1553B			PAN6484		✓

We are an assembling distributor of circular connectors with a 50-year pedigree in supplying industrial and mil/aero markets with outstanding service.

We hold a comprehensive stock profile for all component parts, and are able to offer a 48-hour assembly turnaround on circular connectors with no minimum order quantity.

We work with the widest range of Amphenol connectors in the UK, with an output of over 250,000 units a year.

Our dedicated UK facility allows us to provide a superior service, and we are able to work to a wide range of technical and regulatory approvals.

Key partners overview

Acal BFi work with the leading manufacturers in their field, offering you a complete solution for all your connectivity needs.

Amphenol are one of the largest manufacturers of interconnect products, manufacturing a variety of electrical, electronic and fibre optic connectors, coaxial and flat-ribbon cable, and interconnect systems for use in military, aerospace and industrial markets.

ATI Interco, formerly ATI électronique and Interconnexions, produce connectors for printed circuit boards, modular miniature connectors, RF connectors, filtered and shielded connectors.

Bulgin, part of Elektron Technology, are a globally recognised manufacturer of connector products for power and data. The range incorporates USB, Ethernet, Firewire and ruggedised connectors for harsh environments. Complementing the range are a variety of tooling products designed to ensure the perfect assembly every time.

Cabcon produce an wide range of international power cord sets with global approvals. Exclusive to Acal BFi and held in stock. Custom solutions are also available.

Enplas are one of the world's largest producers of reliable and accurate test and burn-in sockets.

ERNI are an international leading supplier of interconnect products delivering solutions for telecommunications, data communications, medical and industrial applications. ERNI's portfolio includes circular, I/O and modular connectors, board-to-board, wire-to-board, terminals and splices.

Harting are a specialist in electrical, electronic and optical connection, developing customised solutions for energy and data transmission for use in applications from rail technology to factory automation.

Hellermann Tyton lead the way in solutions for fastening, fixing and protecting cables and their connecting components. Key elements of the range are heat-shrink insulation products, tubing and moulded, and constant force spring adaptors.

Huber & Suhner develop and produce high-quality, innovative RF connectors and cables, providing excellence in connectivity solutions.

Hypertac are a world-leading provider of superior quality electrical connectors and interconnect solutions, that are used in applications that require high performance and reliability.

JST provide electronic and electrical connectors with a strong focus on quality and rapid product development. The portfolio ranges from surface mount to IC memory card connectors.

Metz specialise on PCB board, network components and connectors for structured cabling systems.

OFS's Photonics Division develop specialised fibre solutions including cables and other optical fibre products to meet the needs of established and growing industries, including products suitable for harsh environments.

Polamco are an innovative designer and manufacturer of backshells and interconnect accessories designed for the aerospace, defence, communication and medical industries.

Schurter are a leading international supplier of power-supply products that are fully compliant with the latest electrical safety standards, including IEC 60950. The range includes connectors and cables, fuses and fuse holders, and push-button switches.

Sensata Technologies, formerly Wells CTI, have a Test and Burn-in Division which is an established global provider of burn-in and test sockets to the IC industry. The broad range of innovative solutions provides a greater choice of form factors and superior performance, and includes the latest in 'single-site' burn-in products.

Sterling provide structured cabling systems, delivering exceptional levels of performance with proven interconnection compatibility.

TE Connectivity are one of the world's largest suppliers of connector, relay, switch, wire and cable solutions. They connect power and data throughout the automotive, aerospace, industrial and telecommunications markets.

Weidmüller provide innovative, sustainable connectivity solutions for data, power and signal transmission in industrial automation.

3M have developped the Textool™ range, which is a portfolio of innovative and reliable test and burn-in sockets. The range features sockets for most common types of BGA or LGA packages in a variety of pitches.
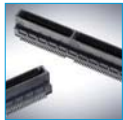
Key technologies and suppliers

The Acal BFi cables and connectors portfolio

Board-to-board
- 10 to 308 way
- Parallel / perpendicular
- Stack heights 1mm to 38mm

ATI·INTERCO ERNI JST HARTING smiths connectors TE connectivity

Card edge
- Generic 36 to 100 way
- PCIe (X1, X4, X8, X16)

ERNI HARTING TE connectivity

Circular
- Backshell and accessory
- Connector
- Filtered
- Connector assembly
- Sleeving / heatshrink
- High voltage
- High current (1000 amps)

Amphenol ATI·INTERCO bulgin ERNI HellermannTyton smiths connectors Polamco TE connectivity

FFC / FPC / flat flex
- 10 way to 64 way
- Cables
- Receptacles

JST TE connectivity

Fibre optic
- Commercial
- Ruggedised
- Cable assemblies
- On-site termination

Amphenol HARTING METZ CONNECT ofs smiths connectors STERLING Weidmüller

I/O connectors
- D-Sub / D-Micro
- Firewire / IEEE 1394
- DVI / HDMI
- Industrial rectangular
- MDR
- SAS and Mini-SAS
- SATA and eSATA
- SFP / SFP+
- USB

Amphenol ATI·INTERCO bulgin ERNI HARTING smiths connectors Polamco SCHURTER STERLING TE connectivity Weidmüller

Modular / networking
- RJ 11
- RJ 12
- RJ 45 (filtered and unfiltered)
- Cat5e
- Cat6 and Cat6a
- PoE

Amphenol ERNI HARTING METZ CONNECT smiths connectors JST STERLING TE connectivity Weidmüller

Pin header
- Pitches from 0.3-5.08mm
- Single / double row

METZ CONNECT JST TE connectivity

Power supply
- Battery
- DC jack
- Power cords
- Filtered inlets

Amphenol ATI·INTERCO bulgin Cabcon HARTING smiths connectors JST SCHURTER TE connectivity Weidmüller

RF and coax
- BNC
- Frequencies up to 18GHz
- MMCX / MCX
- N
- SMA, SMB, SMC

Amphenol bulgin HUBER+SUHNER smiths connectors TE connectivity Weidmüller
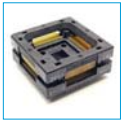
Socket and card

- IC sockets
- Memory cards
- SIMM and DIMM modules
- Smart card and SIM
- Test and burn-in

Amphenol · Enplas · smiths connectors · JST · Sensata Technologies · TE connectivity · 3M

Terminal blocks and strips

- Barrier strip
- Terminal block
- Din rail mounted

Weidmüller

Terminals and splices

- Ferrules and splices
- PCB terminals
- Ring, spade and push-on

ERNI · JST · TE connectivity

Tooling

- Crimp tools
- Die
- Pin insertion / extraction tools

Amphenol · ATI INTERCO · bulgin · HARTING · smiths connectors · JST · Polamco · TE connectivity · Weidmüller

Wire-to-board

- Power connectors
- Signal level connectors

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Wire-to-wire

- Crimp / IDC / solder
- Up to IP67
- Up to 300A / contact

Amphenol · ATI·INTERCO · ERNI · HARTING · smiths connectors · JST · TE connectivity · Weidmüller

	Board-to-board	Card edge	Circular	FFC / FPC / flat flex	Fibre optic	I/O connectors	Modular / Networking	Pin header	Power supply	RF and coax	Socket and card	Terminal blocks and strips	Terminals and splices	Tooling	Wire-to-board	Wire-to-wire
Amphenol			●		●	●	●		●	●	●			●	●	●
ATI Interco	●		●			●			●					●	●	●
Bulgin			●			●			●	●				●		
Cabcon							●		●							
Enplas											●					
ERNI	●	●	●			●	●						●		●	●
Harting	●	●			●	●	●		●						●	●
Hellerman Tyton			●				●									
Huber & Suhner										●						
Hypertac	●		●		●	●	●		●	●	●				●	●
JST	●			●		●	●	●	●		●		●	●	●	●
Metz					●		●	●								
OFS					●											
Polamco			●				●	●						●		
Schurter							●		●							
Sensata Technologies including Wells CTI Burn-in sockets											●					
Sterling					●	●	●									
TE Connectivity	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Weidmuller					●	●	●		●	●		●		●	●	●
3M											●					

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