



ELECTROUSTIC
DISTRIBUTION OF CONNECTIVITY SOLUTIONS

Brands

INDUSTRIAL CONNECTIVITY SOLUTIONS

- * INDUSTRIAL
- * MILITARY
- * FACTORY AUTOMATION
- * INDUSTRIAL ETHERNET



Electroustic is a specialist distributor of industrial connectivity solutions based in Milton Keynes. A franchised distributor for globally recognised brands including Amphenol Industrial, Bulgin, Hirschmann and Lumberg Automation.

With over 50 years history, Electroustic is a family-owned business with a background in distribution, manufacturing, engineering and project management. We pride ourselves on our excellent customer service,

our technical knowledge and our ability to provide total solutions for technical issues.

This brochure is intended to give you a brief overview on our top brand manufacturers for whom we are a franchised partner and to highlight the applications and sectors we serve with our comprehensive product portfolio.



Amphenol Industrial offer interconnect solutions for almost every industrial field including Energy Generation & Distribution, Transportation, Machine Building, Industrial Automation, Harsh Environment, Automotive, Audio, Marine, Chip Card Readers, Lighting and Security.

Their wide and varied portfolio enable smarter, faster and better technologies to connect products to customer solutions.

Product Range:

Rectangular - AT & ATM Series, Heavymate
Circular - Ecomate, RT360 and C091 Series
M12, RJ45

Audio/Data – XLR AX series, AC series, XLR
Cable connectors, XLR-RJ45, D-Sub, DVI,
HDMI



**bulgin**

a brand of Elektron Technology

Product Range:

Buccaneer Mini, 900, 400, Mini
USB, Ethernet, 6000 & 7000
series, SMB

EXPlora – ATEX Zone 2/Zone 22
IP67, IP68, IP69k

IEC Connectors

Fuse Holders

Switches

Bulgin is a leader in waterproof connector technology and a trusted name worldwide. They design and manufacture internationally recognised connectors, fuseholders and switches.

Electroustic, in partnership with Bulgin offer customised cable assembly and box build solutions. We are able to offer bespoke solutions for a multitude of applications.

Bulgin connectors are used in the following applications; Industrial Automation, Harsh Environment, Machine Building, Transportation, Energy Generation & Distribution, Lighting, Data Transmission, Audio, Automotive & Marine and Security.





HIRSCHMANN

A **BELDEN** BRAND

With Hirschmann's connectors and cables, your operations can continue uninterrupted even under the most adverse conditions such as contamination, moisture or vibration.

Used in a number of industrial applications such as Building Management, Factory Automation, Machine Building, Transportation, Energy, Audio, Security and Process Control with total reliability.

Product Range:

Rectangular – GDM (DIN 43650), ST Series, G Series

Circular – CA/CM Series, NR Series, M8, M12, MAS/MAK





HIRSCHMANN

A **BELDEN** BRAND

As a specialist in industrial networking, Hirschmann offer a complete, integrated Industrial Ethernet infrastructure for data communication throughout manufacturing operations.

Systems for Control, Monitoring, Load Measuring & Load Moment Limitation. Hirschmann also offers leading-edge solutions in the field of Industrial Automation, Security, Process Control and Traffic Routing as well as for the Energy sector.

Product Range:

Managed switches; RS20/RS30/
RS40/RSB20/MS20/MS30/RSR/RSP/
GECKO 4TX/DIN Rail

Unmanaged switches; Spider/PoE/
RS2/RS20

Wireless LAN; BAT series
IP67/IP65; OCTOPUS PoE managed &
unmanaged Switches

Industrial Firewall; EAGLE & Tofino

Backbone switches; MACH 4000
Software; HiVision, Tofino, HiOS,
HiLCOS





International Network Connectors

INC (International Network Connectors) is a manufacturer of MIL Spec connectors. INC is both ISO 9001 and ISO 4001 certified.

Established in 2005, they now trade internationally to the USA, China, Thailand, Australia, Israel and most recently the UK.

INC offer quality MIL Spec connectors at competitive rates with short lead times. Typically used in Harsh Environment and Industrial applications.

Product Range:

MIL-C- 5015 Series,
MIL – DTL 26482 Series,
INB Series –VG95234.

All available in various finishes including Black Zinc, RoHS & Nickel.



Lumberg

passion for connections

Lumberg engineer and produce connectors and contact systems, electromechanical elements and mechatronic components with an emphasis on quality and development.

Typical sectors where the Lumberg product portfolio is used are Medical Instrumentation, Measurement & Control Engineering, Computer Technology, Audio, Automation, Communication Systems and Industrial Engineering amongst others.

Product Range:

Series 03 circular connectors IP40/IP68
Series 24 USB
Series 15 Audio
Series 16 Power Supply connectors
System LC4
Photovoltaics
Series 01 Miniature & DIN Connectors



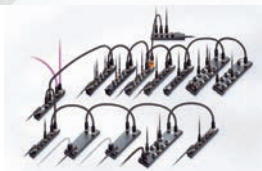
A **BELDEN** BRAND

Connectivity Solutions for Automation Technology:
Lumberg Automation is synonymous with high-quality connectors and innovative wiring solutions for use in almost all areas of automation.

Lumberg Automation products have a thoroughly deserved reputation for impervious design, high loading capacity and chemical resistance. Widely used in Industrial Automation, Harsh Environment, Machine Building, Transportation, Data Transmission, Automotive and Security applications.

Product Range:

Circular; M8, M12, M23, 7/8", Single & Double ended cordsets, T-connectors/Adaptors I/O Modules; AS Interface, Profibus, Interbus, CANopen, DeviceNet, Industrial Ethernet
Modular I/O Systems; Lion-Link series
Actuator/Sensor distribution boxes; M8 & M12 sockets



Products by Brand

A brief overview of the products available from Electroustic, categorised by brand for your quick reference.

Product	Rectangular	Circular	IP67 or Higher	M8, M12 Sensor Actuator	ATEX Approved	Data: USB, Ethernet, Profibus, D-Sub, HDMI	Power Connectors	Mil-spec	Multipole	IEC: C13, C14, C15, C16, C17, C18, C19 & C20	Metal	Plastic	I/O Distribution	Managed & Unmanaged switches	Industrial Firewall	Audio/Video/XLR
Brand																
Amphenol	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			✓
Bulgin		✓	✓		✓	✓	✓		✓	✓	✓	✓				✓
Hirschmann	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	✓
INC		✓	✓			✓	✓	✓	✓		✓					
Lumberg	✓	✓	✓			✓	✓		✓		✓	✓				✓
Lumberg Automation		✓	✓	✓		✓	✓		✓		✓	✓	✓			
Other Brands	✓	✓	✓	✓		✓	✓		✓		✓	✓				✓



Applications



Applications

With such a wide and varied product portfolio, Electrooustic offer connectivity solutions for a broad spectrum of applications from Industrial Automation & Machine Building to Entertainment and Broadcasting.

Our extensive product range enables us to deliver complete solutions backed up by comprehensive technical services. We can provide consultation and assist with development and design allowing you to achieve your goals and requirements within project timeframes.

Whether the application is for a new factory line or an offshore project, our technical expertise combined with our portfolio means we can deliver the connectivity solution required.

An example of the most common applications for which we offer connectivity solutions are as follows;



Automotive & Marine

Automotive applications cover a wide and demanding market which include heavy equipment such as agricultural vehicles, construction equipment and commercial vehicles in addition to mass transit and hybrid vehicles.

Marine, meaning any application exposed to sea, subsea or salt rich environments can cover leisure craft, submersible applications or coastal installations.

Whether your application is within either of these sectors, our product portfolio offers a number of connectivity solutions.

Automotive:

- Circular connectors
- Rectangular connectors
- Sensor / Actuator
- IP rated connectors
- Power connectors
- MIL Spec connectors
- Multipole connectors

Marine:

- MIL Spec connectors
- Circular
- Multipole
- IP rated connectors
- Metal connectors
- Plastic connectors
- Rectangular connectors

Data Transmission

However you need to transfer your data, whether it be by Ethernet using machine protocols such as Fieldbus, Interbus, AS, CANopen, DeviceNet & Profibus or via USB, SMB or wireless, we have both the cable and connections required.

With transmission solutions available for harsh environments, industrial applications and mission critical applications we are sure to be able to assist with your data transmission requirements.

Typical connectivity solutions used in transmission applications;

Connectors:

- Fieldbus systems
- Circular M8, M12, 7/8, M23
- IP65, IP67
- Rectangular Connectors
- FibreOptic
- Ethernet
- Multipole

Industrial Ethernet:

- WLAN
- Unmanaged Switches
- Managed Switches
- Industrial Firewall
- Tofino Security

Energy Generation & Distribution

With the growing diversity of energy generation technologies and their integration into the distribution network, connector and monitoring systems have become increasingly critical to the reliability of the energy supply network.

Connectivity solutions need to be ruggedised and able to withstand the most harshest of environments. From fields of photovoltaic panels to onshore and offshore wind farms, conditions can be extremely challenging.

Our versatile portfolio of products from market leaders in interconnectivity solutions ensures we have the right solution for you.

Connectors:

- Circular
- Multipole
- MIL Spec
- Rectangular
- IP67, IP68
- M8, M12, M23 & 7/8"
- Valve Connectors A, B & C
- Harsh Environment
- Photovoltaic

Industrial Ethernet:

- Wireless LAN
- Unmanaged Switches
- Fieldbus Systems
- Control & Backbone Switches
- Industrial Firewall

Harsh Environment

Connectors suitable for harsh or hostile environments may need to withstand extreme temperatures and temperature cycles, ingress of particulates or water, electrostatic discharge (ESD), electromagnetic interference (EMI), vibrations, and physical impact.

These harsh environments can be underground as with mining or the oil and gas industry, on a train out in all weathers, or in a factory where wash downs occur.

Standard such as ATEX, NEMA and IP ratings (IEC 60529) cover the degree to which a connector can withstand different harsh environments.

Connectors:

- Circular
- Multipole
- Harsh Environment
- IP65/67/68/69K
- MIL Spec
- ATEX Approved
- Rectangular
- Power & Control
- M8, M12
- I/O Modules

Industrial Ethernet:

- Ethernet
- Ruggedised managed switches
- IP67 switches
- Industrial firewall

Industrial Automation

Industrial Automation covers a wide array of applications from robotics and smart factories to motion control and conveyor systems. Each of our top brands manufacture connectors and connectivity solutions for this field.

Typical connector series used within industrial automation are;

Connectors

- Circular; M8, M12, M23, M40, 7/8
- Multipole
- Power & Control
- Mini/High Density
- Rectangular
- IP67, IP68, IP69K
- Buccaneer
- Ethernet
- I/O Modules & Distribution Boxes
- Switches

Industrial Ethernet:

- Managed/Unmanaged switches & PoE
- Wireless Lan
- Industrial Firewall
- Actuator/Sensor Distributors

Lighting/LED Lighting

Lighting/LED lighting applications require long life, minimal maintenance and extreme energy efficiency – often times in harsh outdoor environments. Our top brand manufacturers offer connectors and cable assemblies for use in LED lighting applications that are engineered to work in any environment whilst adhering to the strictest international requirements.

With IP65 to IP69K waterproof ratings, EMI resistance, UV resistance and UL and/or TUV approvals, Electroustics' product portfolio has the right interconnect solution for your LED lighting application.

Connectors:

- Circular/Multipole
- M12
- RJ45
- Rectangular
- XLR
- IP65/IP68/IP69k
- USB
- MIL Spec
- D-Sub

Industrial Ethernet:

- Managed Switches
- IP67 Switches
- Control & Backbone Switches
- Ruggedised Switches

Machine Building

Machine builders need a connector system that offers quick and easy assembly and helps cut build costs. These connectors have to be reliable, robust and able to carry all types of power, signal and data.

From Sensor/Actuator connectors to Modular I/O Systems and power connectors (up to 1000V) to data connections and safety controls, we have the connector and cordset solutions available to improve efficiency when machine building.

Typical Connector & Cordsets:

- Circular M8, M12 M23
- Multipole
- MIL Spec
- Power & Control
- Rectangular
- IP40, 65, 67, 68, 69K
- IEC Connectors
- Data

I/O Module Systems:

- AS Interface
- Interbus
- Profibus
- CANopen®
- DeviceNet
- Industrial Ethernet
- Lion-Link
- Actuator/Sensor Distributors

Professional Audio/Video

The XLR connectors are the industry standard when it comes to professional audio, stage lighting and video applications. These connectors are designed to carry high capacity currents, provide shielding for contacts and are most commonly associated with balanced audio interconnections. Conforming to the international standard IEC 61076-2-103 these connectors are also used for low voltage power supplies in the industrial sector. The AC series cable connector range complies with IEC268-12 and AES 14-1992 standards.

Also available in the XLR range from our manufacturers is the Insulation Displacement Contact (IDC) XLR connector. The IDC connector is ideal for Original Equipment Manufacturers and end users alike and offers a 'quick connect' alternative to the standard solder connector.

Connectors:

- XLR
- IDC
- Speaker & Power plugs
- IP67, IP68 Power connectors
- IP67/IP68 Data/Ethernet/HDMI
- Circular DIN

Industrial Ethernet:

- Backbone switches
- Managed PoE Switches

Security

Security whether it be video surveillance, traffic control, security for industrial Ethernet networks or communication networks has become increasingly employed in this digital age.

Total reliability is a fundamental attribute of any security system and our world leading brands are proven for their reliability in the harshest of environments.

Typical connectivity solutions used in security applications;

Connectors:

- Circular, M8, M12, M23, 7/8
- Multipole
- MIL Spec
- Harsh Environment
- Waterproof IP67, IP68
- Power
- Rectangular
- Ethernet/RJ45
- Fibre Optic

Industrial Ethernet:

- Wireless LAN
- Ruggedised Switches
- Managed Switches
- Industrial Firewall
- Tofino

Transportation

The transportation sector covers everything from rail to road and everything in between.

Whether your application is traffic control, agricultural/commercial vehicles, tunnel lighting, surveillance or communication on rail or on road, our product portfolio offers connectivity solutions for all.

Connectors:

- Circular, M8, M12, M23, 7/8
- Multipole
- MIL Spec
- Harsh Environment
- Waterproof IP67, IP68
- Power
- Rectangular
- Ethernet/RJ45
- Fieldbus distributors

Industrial Ethernet:

- Wireless LAN
- Ruggedised Switches
- Managed Switches
- Industrial Firewall
- DIN Rail mounted switches

Value Added Services

Should you require assistance in launching a new product, designing and specifying a new project or just an outsourced manufacturing resource, Electroustic are able to offer the following services and more;

Connectors:

- Design of bespoke connectors tailored to specific customer projects
- Cable assembly/harnessing including connector Over-Moulding
- PCB population of both rigid and flexible circuits
- Box Builds
- 3D modelling and printing

R & D Capabilities include:-

- Product Design
- Mechanical Design
- Software Design
- Electronics Design
- Ergonomic Design
- Process Engineering

Other Services available include:-

- PCB Layout
- CAD/CAM
- Prototyping
- Testing
- Q&A
- ISO 13485 Medical Devices Standard

If you would like to receive further information on our additional services, please contact us at

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