

ADDED-VALUE services

More than just a connector



CIVIL AVIONICS



MILITARY AVIONICS

SHIPS/NAVAL



MASS TRANSIT

AUTOSPORT



MILITARY VEHICLES



ADDED-VALUE services



Amphenol is the world leader in the design, manufacture and supply of high-performance interconnect systems for military, commercial and industrial applications. Amphenol offers an extensive global portfolio of interconnect solutions for demanding and harsh environments which includes added-value services.

Amphenol Ltd has an extensive design and manufacturing facility with the capability to offer customers added value services from cable systems to complete box build. Amphenol offers these services via its vertically integrated facility, design and prototyping cell and through commercially competitive partnerships with other Amphenol business units located in low cost geographies such as Estonia, India, China and Mexico.

Amphenol UK capabilities include:

- Applications Engineering Team with extensive industry and interconnect knowledge
- Full end to end design service
- Proposal drawings and wiring schematics
- 3D CAD modelling
- High resolution 3D printing facilities
- High speed data modelling, simulation and network analysis
- PCB and flex design
- Skilled fabrication and box build
- Prototyping and model shop
- Temperature controlled clean room
- Toolroom for tool design and manufacture
- Low and high pressure overmoulding
- Independent testhouse facility
- Automated cut, strip and crimping
- KANBAN, stocking and logistics support
- Automated in-process testing and certification

Amphenol Ltd has an unrivalled pedigree and wealth of experience being one of the first UK companies to offer military overmoulded cable assemblies. Examples of current projects include; Head-up display units for military aircraft, Jumper assemblies for train carriages, Fibre optic cable assemblies for the Type 23 Frigate upgrade, complex flex assemblies for aero-engine management systems and overmoulded headset cables.

Amphenol Ltd holds accreditation to BS EN ISO9001 and AS9100 and is also an active participant in the global IPC committee with involvement in the upkeep of existing standards and contributing to the writing of new standards. Operators are trained by an onsite IPC committee member and trainer to IPC-A-610, IPC/WHMAA-A-620, IPC J-Standard 001 and IPC-A-7711/7722.



Connector Accessories

- Full range of environmentally sealed and EMC screened backshells and cable strain relief adaptors
- Extensive selection of metal, plastic and rubber protective caps for sealing and EMC protection
- Dummy receptacles for stowage of bayonet and threaded coupling connectors



Customised Connector Assemblies

- Additional filter protection and transient suppression
- Connectors and accessories with tailored geometry
- Specialist materials including Aluminium Bronze, Composite, Titanium and Stainless Steel



Cable Looms

- Design and manufacture of wiring and woven looms
- Interconnection with active webbing
- Databus assemblies



Conventional Boot & Backshell Harnessing

- Design, development, build to print and prototyping facility
- Harness assembly drawings and wiring schematics
- Domestic and low cost offshore manufacturing facilities



Overmoulded Harnessing

- Ruggedised for increased reliability and tamper proofing
- Custom designs to suit specific applications
- Potential cost savings over conventional boot and backshell assemblies



Power Harnesses & Assemblies

- High power cable harnesses to carry up to 1000A
- IP2X safety features
- Connection to busbar and flexible busbar assemblies



Connector Flexi Assemblies

- Flexible and flex rigid assembly design and build
- Specialist interconnect to join multiple flex assemblies
- Single side, double sided and multi layer assemblies



Electro Mechanical Assemblies

- Design and manufacture of distribution and junction boxes
- Design and manufacture of digital control and display boxes
- Supply of ruggedised switches and routing equipment

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