



High integrity harnessing

Bespoke harness design solutions

CAPABILITIES

- Full design support
- Build to print
- Digital, analogue, discrete signal, power and fibre optic harnesses solutions
- Complex low loss switchboxes
- Multi layer screening
- On-site braiding
- Box and panel build
- Knitted braid screening to JSF specifications

Our on-site electrical harness production facility provides a wide range of services to suit the wiring needs of many large aerospace companies worldwide. Our experience of building complex interconnect cables is derived from a background of designing ruggedised electrical sub-systems for military applications. Many of our harnesses are hand assembled, using high grade materials to ensure product reliability in the toughest of environments.

Our services range from providing a simple point to point power harness, through to full design support for more complex harness systems. We can design and integrate switchboxes to more complex systems, and multi layered screening can be used for EMI filtering where required.

Harnessing solutions are provided for a large range of applications, from aircraft fuel system measurement and gauging, Mil-Std

1553 physical layer testing, CANbus, ARINC-429 and Ethernet data buses. In addition, harnesses for digital and analogue video, discrete signal, power and fibre optics can also be provided.

Benefits

- Hand built harness systems ensure excellent build quality
- All products UK sourced and assembled
- ATEX approved where required
- Use the latest Raychem *HarnWare* software
- Working to IPC-620A and Tyco codes of practice
- Mil Std 461 EMC compliance
- Complete, tailored service, from concept to platform integration

Extensive range of applications within many industry sectors...

With high build quality, and techniques used for increased EMI protection, our products are ideally suited for interconnecting systems operating in extreme temperate, high vibration, humid and dusty environments typically experienced by the military. However, with increasing pressures on the safety of commercial aircraft, we are seeing demand for such 'ruggedized' harness solutions for this industry becoming increasingly popular.

High-integrity Switch Boxes

Some applications such as systems testing, requires changes to the interconnections within a harness. To enable this, low loss switch boxes can be designed and produced either as an integral part of the harness or as a 'plug-in' adapter module. This will reduce the risk of damage to the aircraft during re-configuration, and rapidly reduces test time as it means that the cables are only physically connected once, with the switch box controlling signal routing during testing.

Box and Panel Build

We can also provide flat plate control panels, enclosed boxes and bespoke interface control units to suit any specification.

Major Customers

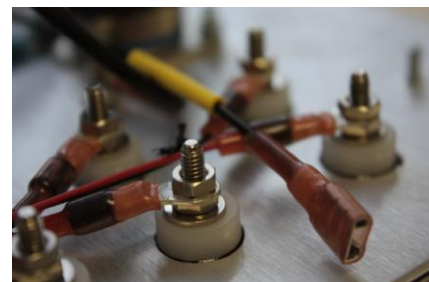
We are proud to have worked with many of the key OEMs and operators in the industry to date, including:

- UK MoD
- US DoD
- Airbus
- BAE Systems
- Fokker
- KLM
- Raytheon Systems Ltd
- Thales

Quality and Standards

- ISO9001/AS9100
- Mil Std 461
- ATEX Zone 2
- CE / COSHH / ROHS / WEEE
- Low Voltage Directive
- IPC-620A

Please contact us to discuss requirements for specific applications



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