



# TELEDYNE REYNOLDS UK

Everywhereyoulook™

A worldwide provider in the design, development and manufacture of engineered solutions and system integration for both military and commercial applications



Delivering products of superior performance and reliability.

We support a number of industries, including: Oil and Gas, Aviation, Military, Medical, Space, Instrumentation and Communications.

## Key capabilities include:

**High voltage cable supply**  
**High voltage cable assembly design and manufacture**  
**Harness and loom design and manufacture**  
**Design and rapid prototyping**  
**Coiled cable assemblies**  
**RF cable assemblies**  
**Fibre optic cable assemblies**  
**Cable assembly repair & overhaul**  
**Programme management – production, development and box build design**  
**Electro-mechanical assemblies**  
**Electronic assembly wiring and test**  
**On-site Installations**  
**PCB population and wiring, soldering, vacuum potting and bonding**

## High Voltage (Military Cable Assembly, Connectors and Wires, components & electro-ceramics)

Cable assembly, custom design and manufacturing capability with a range of specialist connectors and wires. We also offer spark gaps, high voltage mica capacitors and specialised electro-ceramic products. Applications include medical, industrial, armoured vehicles, commercial and military unmanned platform and ordnance management.



## Custom Products (flexible, semi-rigid, custom)

A highly specialised design, manufacture and test capability, which incorporates high and low voltage, fibre optics, data, RF and video links in any combination to meet exact interconnect requirements without compromise.

Should a customised connector be required, we have the necessary design skills and many years of experience to produce the exact solution needed. If you only need our manufacture and test capabilities, please do approach us for a build-to-print solution. For the military market we offer a UOR capability for fast turn round programmes. In addition to the production of cable assemblies, Teledyne Reynolds offers next level integration of cables into sub-assemblies to provide a fully tested product. This capability is also custom design, manufacture and test or build-to-print.

## RF & Microwave Cable Assemblies (flexible, semi-rigid, rigid, custom)



A range of custom and catalogue specified RF and microwave cable assemblies operating to a maximum of 50GHz. Our high performance flexible cable assemblies are designed to meet the electrical and mechanical performance demanded by System or Test & Measurement applications. The semi-rigid cable range is often selected for its superior shielding and insertion loss – with trained technicians using CAD and automated bending equipment to ensure precision-formed assemblies. Custom cable products are also available, including the addition of soft or hard armouring, environmental hardening and specific RF characterisation.





## Initiation and Ordnance for Cable, Detonators, Fire Sets, Packaged Electronics

A highly specialised range of initiation and ordnance capabilities and products. A reliable high voltage wire and cable range, which are essential components of every explosive initiation system where EBW or EFI initiators are used. An extensive range of EBW and EFI detonators are also available, and we are able to develop special devices to your specific requirements. We manufacture a complete line of EBW and EFI Firing Systems – designed to allow remote arming and firing of initiators.

## Electronic Safing, Arming and Firing Units

We also design, develop and produce an extensive range of EBW & EFI based electronic safing, arming and firing units.

## Applications include:

- Mining**
- Sub-sea exploration & production**
- Research & development programmes**
- Geophysical applications**
- Military programmes (such as ordnance disposal)**
- Commercial uses (such as demolition)**

## Connectors and Wire for Payload and Launcher Applications

We offer custom designed and catalogue specified high voltage cable assemblies, connectors and wire for payload and launcher applications.

Payload specific interconnect solutions, manufactured in our own clean room, are designed in conjunction with payload integrators to meet the most highly specified performance and environmental demands. Catalogue products, such as the 600SQ Series, are provided as specified in their data or in accordance with an agreed Acceptance Test Procedure (ATP). There is also a facility for lot sample retention. We have also supplied cable assembly products to a number of major programmes including: The International Space Station, BEPI Columbo and Arianne V.

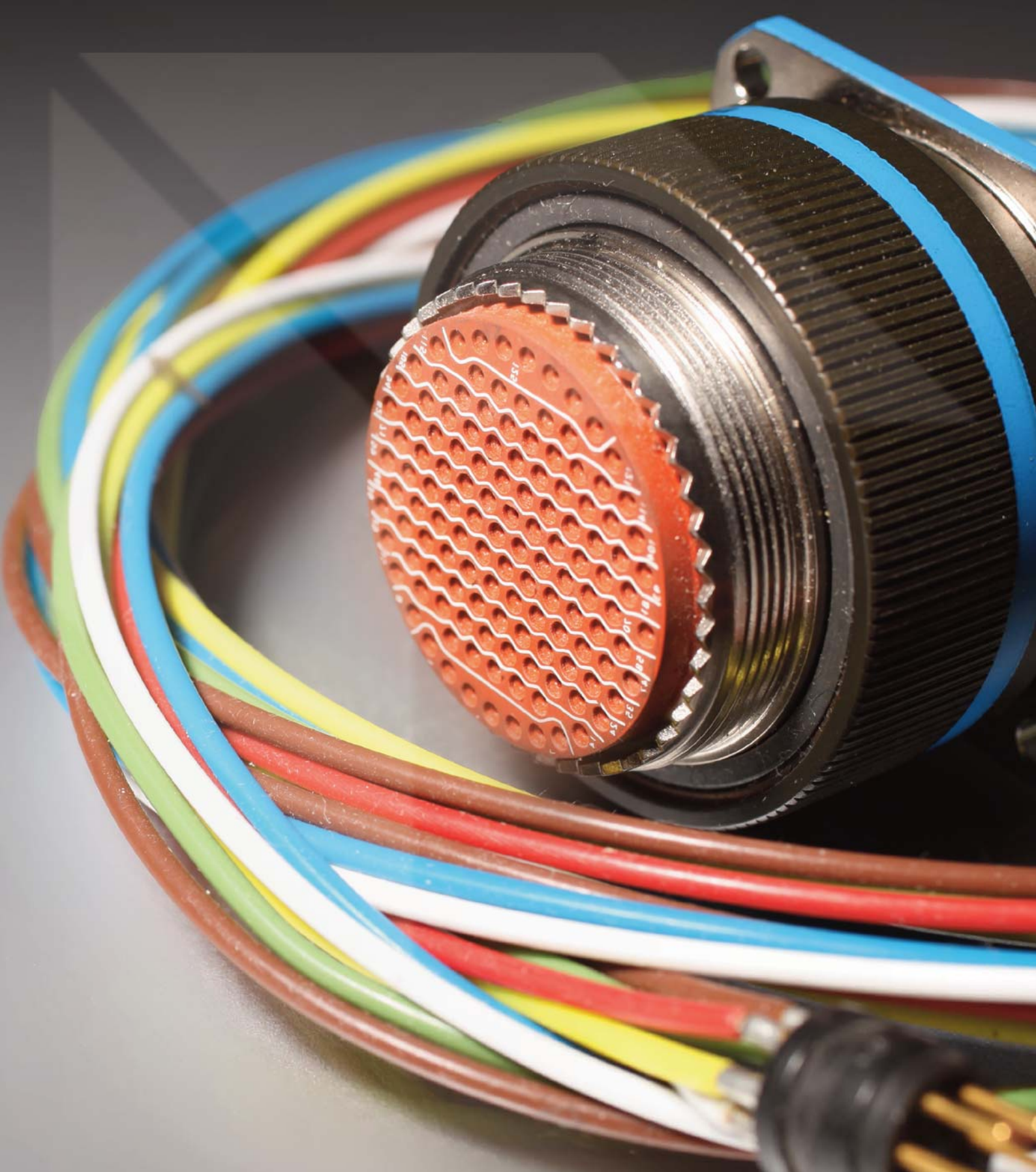
## Avionics Interconnect Solutions - High and Low Voltage, Fibre Optics, Data, RF and Video Links

Our highly specialised design, manufacture and test capability, incorporates high and low voltage, fibre optics, data, RF and video links in any combination to meet exact interconnect requirements. Avionics interconnect often requires us to work with programme designers on platform specific solutions. In addition to the production of cable assemblies, we offer next level integration of cables into sub-assemblies to provide a fully tested product. Customers who only need the manufacture and test capabilities are very welcome to approach us for a build-to-print solution. For the military market Teledyne Reynolds offers a programme managed UOR capability for fast turn round programmes. The introduction of fibre optics into our avionics capabilities reduces mass and size, and enhances performance by comparison with an equivalent assembly, using only copper wires. Teledyne Reynolds can design, manufacture and test fibre optic cable assemblies as standalone products.

As an addition to the fibre optic capability, by using fibre optic cable terminated with the Teledyne Reynolds Hyperion connector, which incorporates 4.25Gbps fibre/digital transceivers, we can provide solutions to upgrade design issues where the interconnect is required to provide more capacity, enhanced bandwidth and higher data rate capability between existing equipment, but where space and mass are critical considerations.







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