



Speciality Cabling Solutions



ABOUT BRAND-REX

Brand-Rex Limited was established in the UK in 1972, whilst the company's roots stretch back to 1942 in the United States when the original Brand Corp and Rex Corp cable companies merged to support an increased demand for aircraft cabling. Since this time, the company has gained both the experience and credibility that has ensured our reputation as one of the most respected and trusted voices in the market today. Although the company's Headquarters have remained in Scotland; the manufacturing base for our data communications business, Brand-Rex has a considerable global reach through our regional offices. These offices, combined with other locally based sales teams, give Brand-Rex a presence in over 50 countries world-wide.

Brand-Rex Speciality Cabling Solutions

Speciality cabling solutions have long formed an integral part of the Brand-Rex portfolio. The Speciality Cabling business based in Leigh near Manchester, is a leading supplier of copper and optic cabling products for demanding environments. Brand-Rex has an extensive heritage as a bespoke cable manufacturer in high performance markets. Over the years we have invested heavily in the business, placing particular emphasis on both our product capabilities and our quality and process systems. In 2005 our Leigh facility was established as the 'Centre of Excellence' for our Speciality cabling business and the capability of the plant extensively expanded.

Our experience covers markets such as Aerospace, Automotive, Rail, Defence, Marine and Industrial. We pride ourselves in maintaining 'blue chip' customers across these areas.

Our materials and cabling capability are extensive. In our Leigh facility we use high performance thermoplastic, elastomer and thermo-polymer insulations and sheathing materials, conductors and other components such as metallic and textile braids and armours. Our processing capability covers extruding, taping and radiation cross-linking.

Quality Ethos

Brand-Rex's Speciality Cabling Solutions division recognises quality as key in achieving total customer focus.

Accreditation to the ISO/EN 9001-2000 quality standard is held along with ISO - TS 16949 (Automotive) and ISO - AS9100 (Aerospace)

In addition many specific customer approvals are held across our broad market base.

The company is committed to a 'business excellence' programme covering all aspects of its operations.



Environment

The environmental impacts of our products are a key business concern and Brand-Rex is compliant to ROHS for all relevant products and the European automotive 'End of Life' requirements.

Our products are designed to comply with ISO/EN 14001 and the company has an established and accredited environmental management system.

Customers and Markets

Through close customer relationships, spanning decades Brand-Rex has a wealth of experience, knowledge and capability to provide system solutions for applications in such diverse market sectors as:

- Aerospace
- Automotive
- Defence and Marine
- Harsh environment Industrial
- Rail
- Harsh environment fibre optics

Cabling solutions are designed not only to save lives but to preserve operational integrity of equipment in specialised and mission critical situations

Needs and Solutions

Today's system requirements are extremely complex with even greater emphasis on size and weight constraints in cabling solutions.

As Industrial technologies advance, so the

performance requirements of associated cabling grow ever more demanding.

The Xtreme range of speciality cables is continuously evaluated and improved to meet these increasing demands. Brand-Rex has a proven track record of design, development and manufacture of specialist wire and cabling solutions, particularly those requiring:

- Low weight/volume
- Excellent fire resistance
- Zero halogen sheathing
- Low smoke and fume properties
- Resistance to oils and solvents
- Excellent physical performance and ageing properties

- High and Low temperature extremes
- Resistance to specific animal threats
- High data and signal transmission rates
- Low and medium voltage

Material capability

Mica tape / MFA / PTFE / ETFE/PFA (Linear and cross linked) / FEP PEEK / PVC / Polyolifins (PE, PP) LSZG, PU etc.

Conductor capability

Single core (0.035 mm² to 240 mm²)
Cu / NPC / SPC / TPC / NPCA / SPCA
Duratherm / Others on request





AEROSPACE

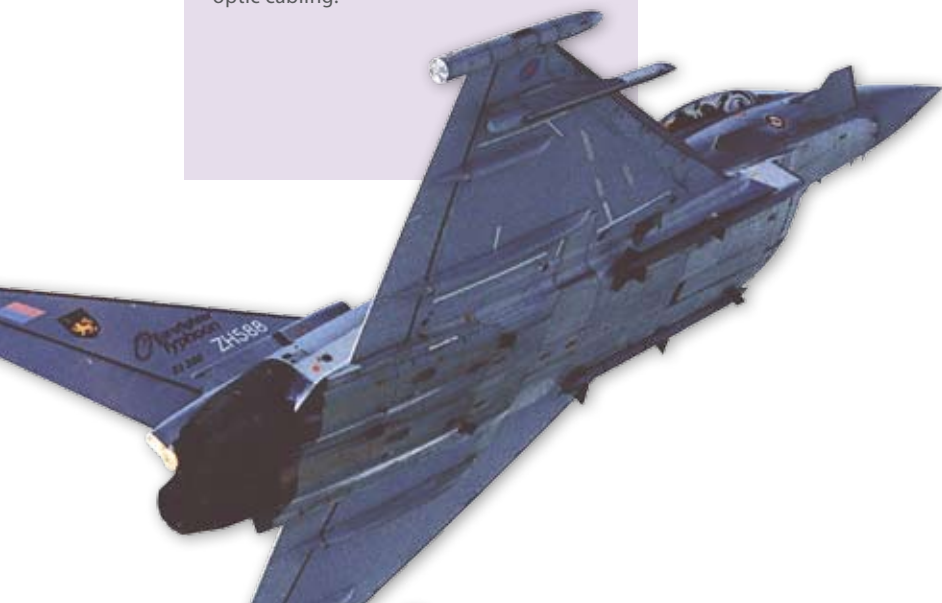
With a history in the Aerospace industry spanning 50 years, Brand-Rex has a thorough understanding of high technology materials, advanced manufacturing processes and a quality culture embodied by the certification to ISO AS9100 that makes it the perfect partner for mission critical metallic and fibre optic cabling.

Aerospace Applications:

- Fuselage harness wiring
- Wing harness wiring
- Landing gear wiring
- Engine fire zone wiring
- Databus cables
- Optical fibre cables
- Missile and electronic systems wiring

Product Lines

- PTFE extruded products
- Tape wrapped hook-up wire
- Extruded high temperature hook-up wire
- Arc track resistant composite hook-up wire
- Multicore cable constructions
- Screened multicore cable
- Databus constructions
- High temperature textile braided cables
- Coaxial cables
- Efwrap cable protection





RAIL

Brand-Rex has extensive experience of products and materials used in the rail industry. Over many years we have developed a comprehensive range of cabling products used in rolling stock and particularly signalling and communications. Brand-Rex holds amongst others approval for many of London Underground's demanding specifications.

Rail Applications

- Inductive loop systems
- Communication systems
- Signalling systems
- Track crossing
- Rolling stock
- Jumper cable/assemblies

Product lines

- Inductive loop cables
- Coaxial cables
- Data communication cables
- Rolling stock wire and cables
- Earth wire and cable
- Polyrad cables
- RSE cables

- Fibre optic cables
- Multi-conductor cables
- Armoured
- Rodent/Termite resistant
- Concentric constructions
- Highly flexible constructions
- Shielded constructions
- Track crossing constructions





DEFENCE AND MARINE

With an extensive pedigree in innovative designs, Brand-Rex has been involved in the development of many modern military cable constructions and has remained at the forefront of the material technologies used. Brand-Rex holds many UK defence approvals for both its copper and fibre ranges of products. In addition we have NATO codification for many of our products and remain at the forefront of 'field deployable' fibre optic cables.

Defence/Marine Applications

- Military ships
- Power
- Signalling
- Communications
- 'Copper' systems
- Fibre optic systems
- Blown fibre systems
- Lighting

Defence applications

- Optical field deployable cables
- Command and communication cables
- Detonator cables
- Field telephone cables
- Data communications cables

Defence/Marine Product lines

- Def Stan 61 - 12 Part 25
- Def Stan 61 - 12 Part 18
- Def Stan 60-1 Parts 1, 2 and 3 (optical cables)
- Def Stan 61 - 12 Part 9
- Def Stan 61 - 12 Part 12
- Def Stan 61 - 12 Part 17
- Def Stan 61 - 12 Part 31
- Def Stan 61 - 12 Part 8
- Def Stan 61 - 12 Part 33
- Mil C 17 Coaxial constructions





AUTOMOTIVE

Brand-Rex Ltd is a world leader in high temperature wiring solutions used in harsh environments in the automotive industry. Our state of the art PTFE facilities offer unrivalled capacity and quality levels. Our extensive materials technology means we can offer innovative solutions using a wide range of other polymers such as ETFE and FEP as well as many types of conductors and plating materials.

Automotive Applications

- Oxygen sensors
- Brake wear sensors
- Seat heating systems
- ABS braking systems

Product lines

- PTFE wire and cable
- FEP wire and cable
- ETFE wire and cable
- MFA wires
- PFA wires





INDUSTRIAL

For many years Brand-Rex Ltd have designed and produced cable solutions for a wide variety of high performance 'Industrial' applications. Extensive experience in high performance engineering materials and tough electrical parameters means we have been involved in designing cable solutions for the harshest of environments.

Our products are used by many world leading companies in a wide variety of applications.

Industrial Applications

- Marine camera systems
- Nuclear camera systems
- Oil and gas communication systems
- 'Downwell' sensors
- Underfloor heating systems
- Electrical switching systems
- High end Audio systems
- Gas ignition systems
- Geophysical sensors
- Lighting

Product lines

- Fibre optic cables
- Multi-conductor cables
- Armoured
- Rodent/Termite resistant
- Flexible and Highly flexible constructions
- Shielded constructions
- Wide variety of insulation and sheathing materials
- PTFE wire and cable
- FEP wire and cable
- ETFE wire and cables
- Multicore hybrid constructions
- Databus constructions
- HDTV fibre/copper constructions



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