

Applications

COMMERCIAL & CONTRACTING



Commercial & Contracting Overview

The variety of construction buildings and project requirements within the commercial market is indeed immense. But whatever the challenge you can be sure that Adaptaflex have a solution to meet those specific requirements.

In these environments there are ever increasing demands not only for quicker and easier to install solutions but also for increased safety and technical performances to meet the specific needs of municipal buildings. The ability to offer product ranges with enhanced low fire hazard properties for safety or overbraiding for security and EMI shielding. Where exposed interiors call for design consideration there is a choice such as conduit in different colours such as white or in different materials such as stainless steel to complement interior styling - Adaptaflex have a range to suit.

Typical Applications

- Office Buildings
- Schools
- Hospitals (EMC)
- Retail Developments
- Leisure Complexes/Sports Stadiums

Product Recommendation

- Low fire hazard PA conduit systems
- Adaptaflex systems
- LFH-SP Liquid resistant covered flexible steel conduit enhanced low fire hazard

Industry Approved

Adaptaflex products are approved by a range of recognised industry standards including.

- BSI Kitemark to EN50086/IEC61386
- CE marked to the Low Voltage Directive
- Fully compliant to BS7671 Wiring Regulations code of practice



IEC 61386



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Applications

MACHINE TOOLS



Machine Tools Overview

This market is driven by the needs to meet the best in lean manufacturing. To achieve this every piece of equipment in this sector is pushed for greater efficiency by working more intensely and faster. As a result any conduit installed in these applications will need to provide excellent mechanical strength, flexibility and abrasion resistance in order to supply the best possible solution to provide protection along the entire length of all the moving parts.

In this hardworking environment of both dynamic and static applications it is essential that any cable management products continue to deliver performance in areas where resistance to oils and chemicals is paramount. Any down time in manufacturing can be very costly so products that can offer high ingress protection are fundamental and Adaptaflex can offer a wide range of solutions to meet all of these needs.

Technology is increasingly being used in modern machine tools and the need to interface conduit to multipin-connectors is escalating. Nylon systems continue to gain popularity in this sector due to their excellent performance, flexibility and low installed cost benefits. For this reason Adaptaflex has developed a wide range of liquid tight connector interfaces in the Adaptalok range.

Typical Applications

- Metal Cutting and Fabrication
- Milling Machines
- CNC Machine Tool Technology
- Moulding Machinery
- Wood Turning Equipment
- Robotics

Product Recommendation

- SPL Liquid Tight conduit
- PA conduit systems
- SPUL for machinery USA export
- Overbraided conduit systems

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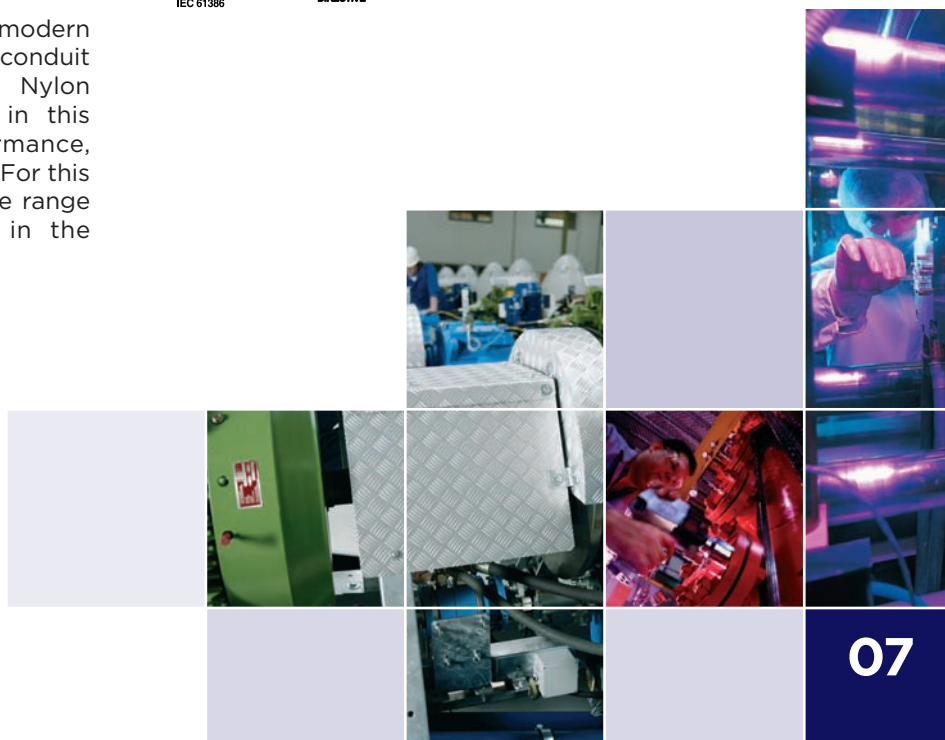
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- UL/CSA /UR



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RAIL



Rail Overview

We work with some of the foremost manufacturers and suppliers of public transportation systems throughout the world. Leading corporations such as Alstom Transport, Bombardier Transportation and Siemens Transportation are just a few of the companies that have worked with us for specific design solutions, many of which incorporate the benefits of our AdaptaLok systems.

Our components need to meet a wide variety of environmental conditions as the very nature of this market can mean our systems are used in extreme environments varying from high temperature to freezing sub-zero conditions. This combined with the need for products that can withstand constant vibrations, water ingress, offer corrosion resistance and be available made from a halogen free, low smoke and low toxicity material mean that supplying this sector can be one of the most technically demanding markets. The proof of rising and meeting this challenge is that we are included on many project build lists.

Typical Applications

- Outside the Train/Carriage - Impact resistance low temperature flexing
- Inside the Train/Carriage - Low fire hazard systems, weight.

- Exposed Locations - High impact resistance
- Bogie Connections - (Jumpers) High impact resistance low temperature flexing
- EMC Protection for safety critical systems
- Infrastructure projects - Stations, tunnels, trackside etc
- OEM packages installed on rolling stock

Product Recommendation

- PA conduit systems
- PR enhanced low fire hazard conduit systems
- PI low temperature flexible conduit
- PK conduit systems
- LFH-SP conduit systems
- CP conduit system
- IP66/67/68/69k AdaptaLok/ATS fittings

Industry Approved

Adaptaflex products are approved by a range of recognised industry standards including.

- LUL (E1042)
- SNCF 478 (NFF16-101/102)
- Deutsche Bahn (DIN 5510)
- BS6853
- Siemens Transportation
- UR
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SIEMENS



Applications

MARINE



Marine Overview

Safety and reliability are vital considerations within one of the harshest operational environments to be found. Products specified and installed within this sector have to face the particular damaging effects from the wind, wave and salt spray conditions in vastly exposed areas. Whilst this demands for the most robust of products it also calls for solutions where vibration and temperature extremes add to the challenge.

Adaptaflex offer a broad range of solutions to suit this sector and which take into consideration minimum environmental impact, corrosion and chemical resistance, long service life and low fire hazard properties. Utilising Adaptalok sealing systems also offers ingress protection particularly valuable in pressure washing applications and with our specialist insert seal raises the IP rating from IP66 to IP67/68/69K.

Typical Applications

- Ship/boat Engine Rooms
- Ship and Dock Yards
- Leisure Boats & Cruisers
- Marina Developments
- Ocean Going Craft

Product Recommendation

- PA conduit systems
- PR conduit systems
- IP66/67/68/69k Adaptalok systems
- Adaptaseal systems
- SPL conduit systems
- Stainless steel conduit systems

Industry Approved

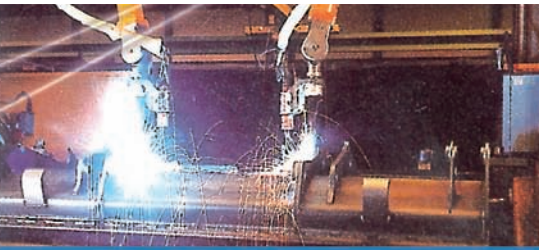
Adaptaflex products are approved by a range of recognised industry standards including.

- Lloyds Register Type Approved
- UR
- BSI Kitemark to EN50086/IEC61386
- CE marked to the Low Voltage Directive



Applications

AUTOMATION



Automation Overview

In the field of automation all cable management systems need to withstand some gruelling conditions concerning flexibility. Motion intensive, continuous cycling machinery can stress conduit systems in every direction at high speed with repetitive movements including swivel actions.

The ability to work at high speed for long periods is a prerequisite with total reliability in hostile or no maintenance applications essential. Any conduit systems installed in this environment can be called on one or all of the following properties: high fatigue life performance; protection for abrasion; be highly flexible; first-class pullout strength and include antistatic properties. Adaptaflex have been designing solutions for this market for many years and can bring a wealth of technical expertise to ensure you have the right product for the job.

Typical Applications

- Pick and Place Robotics
- Conveyor Systems
- Spray Painting and Coating Equipment
- Antistatic/Clean Room Applications
- Measuring and Testing Automation

Product Recommendation

- Adapting system
- PI conduit
- Braided conduit

Industry Approved

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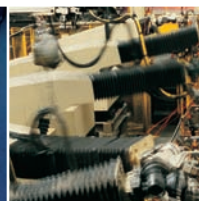
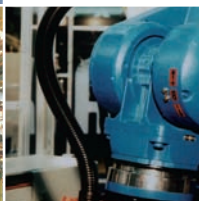
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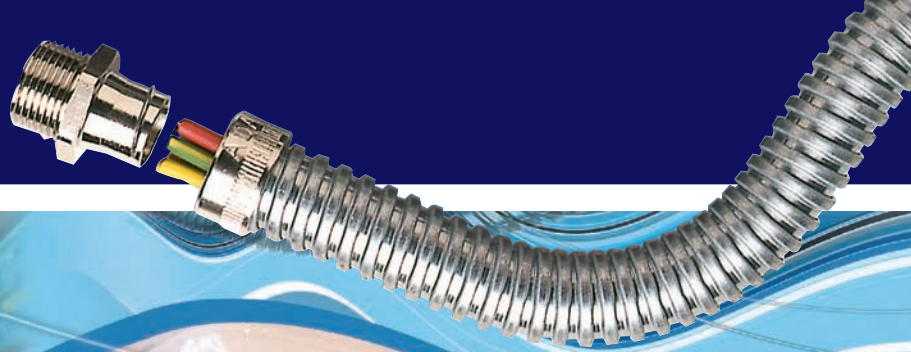


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LIMITLESS APPLICATIONS



Limitless Applications Overview

The range of applications for Adaptaflex cable and energy management systems is almost limitless. Whenever cable needs protection and wherever cable connections are required you will find that Adaptaflex have the answer, providing superior systems to cable management problems for over 30 years.

The range of products and variety of materials to choose from are immense. With different materials providing different performance characteristics it is important that you select not only the right product for your particular application but also the right material to give you continued performance where you need it.

Adaptaflex Applications Engineers offer a breadth of experience gained internationally across all different market sectors. A bespoke design service and expert technical knowledge guarantees that Adaptaflex will find the perfect product solution for your application.

Examples of individual markets served

- Telecommunications
- Aviation
- Medical
- Mining/Quarrying
- Automotive
- Underground Rail Systems
- Security & CCTV
- MOD

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