

Building Systems



Intelligent Building Technology

Providing Integrated Energy Efficient
Building Infrastructure for
Commercial Offices
Industrial Environments





Building Systems

Workspace Technology provides a range of intelligent energy efficient building infrastructure which includes, Communications, Power, Security and Cooling. Workspace Technology is committed to helping you reduce power consumption and carbon emissions, through integrated technology and intelligent building design.

Typical projects for our customers across the UK include; office relocation, renovation and expansion. Our goal is to deliver to our clients a comprehensive Building Research Establishment Assessment Method (BREEAM) compliant building infrastructure. Our approach simplifies deployment to reduce project installation time and complexity.

Delivery Model

Workspace Technology employs a simple, standardised approach to the design and implementation of building infrastructure. We have identified four key building blocks from which we deliver intelligent building infrastructure.

Communications Systems...creating communications pathways

through design and installation of structured cabling, fibre optics, audio visual and TV/UHF cable distribution.

Power...power distribution and lighting

systems for modular and reliable energy efficient electrical services.

Security...secure building environments

through deployment of IP CCTV, Access Control, Door Entry, and Intruder Alarm installations.

Cooling...comfort cooling technology

through deployment of energy efficient air-conditioning and heating systems.



Communications Systems

creating communications pathways

As the global economy continues to develop, it is essential that businesses can effectively deliver Information Technology at high speeds to the desk. “Communications Systems” provide a structured approach to cabling for the distribution of high speed voice, data and video. Communications Systems are delivered through a range of structured cabling, voice, fibre optical, audio visual, control and UHF/TV distribution cabling.

Structured Cabling

Workspace Technology’s Building Systems division provides an expert approach to the design and installation of structured cabling services for commercial office, campus, educational, health and complex industrial environments.

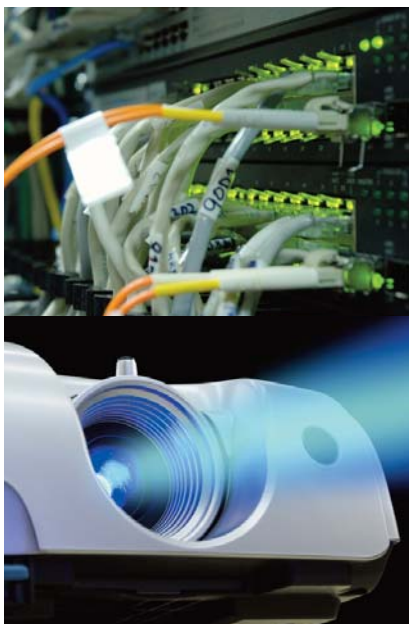
Our Structured Cabling solutions deliver:-

- A range of Performance levels – Cat5e, Cat6, Cat6A (Augmented) 10Gig, UTP or STP
- Certified 25 Year Warranty Programme
- Calibrated Testing with Fluke DTX1800 Cat6A Test Equipment
- Desk Management and cable distribution products to suit the workspace environment
- Industrial engineered, robust high specification installations for harsh environments
- Intelligent “Smart Patching” technology, providing accurate patching, asset tracking and management.

Voice Cabling

Modern structured cabling supports all Voice Data & Video services. Whilst structured cabling combined with Voice over IP technology (VoIP) is diminishing, the requirement for the installation of dedicated voice cabling systems, is still significant within the UK.

Workspace Technology’s team includes experienced telecommunications engineers. We supply and install traditional voice backbones and provide on-site engineering services which include moves, adds, changes and fault finding for public sector and corporate clients across the UK.



Communications Systems

creating communications pathways

Fibre Optical Installation & Testing Services

Workspace Technology's Building Systems division provide a comprehensive fibre optic service including design, installation, testing, certification and repair.

Fibre Termination & Testing Services

Workspace Technology's in house trained and experienced fibre optical engineers offer termination and fibre splice services including 'hot-melt' and 'pig-tail' fusion splicing of multimode and single mode cables. Workspace Technology use industry leading Fujikura fusion splice technology.

Workspace Technology provides Fluke and OTDR testing for all installations to insure installation compliance and correct operation.

Fibre to the Desktop (FTTD)

With the ever increasing need for speed and security, FTTD is fast becoming common in the modern work place. Each desktop is supplied with a small fibre cable from the patch panel and terminated into a wall, floor, or distribution outlet.

Advantages of FTTD include high bandwidth capability for voice, data, video and network security.

Pre-terminated Solutions

Pre-terminated solutions offer an innovative "plug-and-go" system for those desiring the ultimate in fast, easy and reliable optical fibre networking. Based on the concept of building blocks, our complete range of pre-terminated components bring total flexibility to the design phase.

No specialised tools are required for installation and the systems can be easily disassembled and redeployed as needed, while ensuring highly reliable results. Pre-terminated systems can be an ideal choice for traditional LANs, as well as Data Centres and Storage Area Networks, and for temporary installations such as disaster recovery sites and convention centre services.

Audio Visual A/V & UHF/TV Distribution

In today's electronic age, demand for high-performance audio and video communications is greater than ever before. Virtually every workplace, be it a corporate campus or a high-rise office building needs to provide high-quality audio and video (A/V) capabilities.

As part of our "Communications Systems" offering, Workspace Technology install Audio Visual and UHF/TV distribution systems to provide multi-channel services within business environments.

Enterprise Audio Visual systems range from relatively simple to highly sophisticated integrated broadband and multimedia networks. Workspace Technology can provide a broad spectrum of solutions to meet these diverse needs.

Installation Services Include:-

- Speaker Cables
- Audio Cables
- Control Cables
- Coaxial Cables
- Projector Cable Systems.

25 Year System Warranty

Workspace Technology believes the best warranty programme is the one our customers never have to use, and throughout our history of providing quality installations, service and support, that has routinely been the case.

As a leading Belden Certified System Vendor (CSV) we are able to ensure our customers get one of the most comprehensive warranty assurance programmes in the industry.

Workspace Technology is committed to ensuring that our design team works to the latest industry standards and practices.



Power

power distribution and lighting

Complimenting our structured cabling services, power systems enable Workspace Technology to offer our clients the benefits of a single supplier for core building infrastructure. Workspace Technology design and implement power distribution systems to suit your building environment, supporting both power track, and traditional cable approaches.

Workspace Technology offer a flexible approach to containment and cable management systems to provide clear cable pathways, accessible outlet distribution and appropriate I.T and power cable segregation. Our complete power services include:-

- Power Distribution
- Intelligent Lighting
- Critical and Emergency Power
- Electrical Design

Power Distribution

Commercial power systems must be adaptable to change, in order to improve both availability and cost effectiveness. Workspace Technology employs a combination of standardisation, pre-engineering and modularisation to design and install resilient power distribution systems.

Workspace Technology's experts design and install LV panel board and associated power distribution to match the availability and performance of the most demanding environments.

Merlin Gerin's IsoBar Multi 9 distribution board technology is installed as standard. The IsoBar has a unique busbar disconnection system for unused busbar tee-offs and a switched neutral feature into the IsoBar chassis providing users with one of the safest systems on the market.

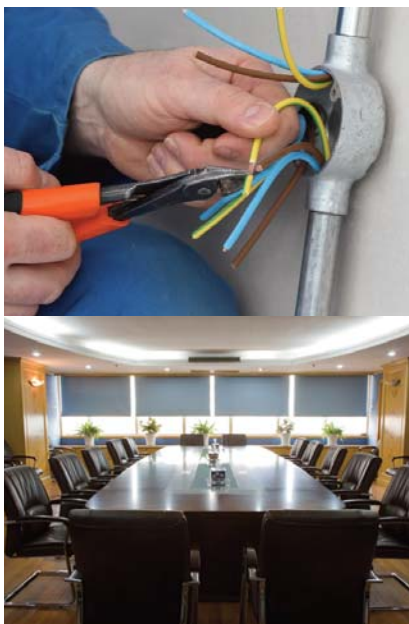
Local power distribution is delivered through traditional wired cable or power track systems which offer cost effective rapid installation, combined with low maintenance and exceptional reliability.

We install a range of floor boxes, grommets and desk distribution systems with different sizes and configurations to suit all your requirements.

Lighting Solutions

Lighting accounts for 10-15% of the electricity bill within many commercial office environments. Energy-efficient lighting can seem such an obviously good idea that it is hard to comprehend why it is not used everywhere. Workspace Technology's Building Systems division are actively committed to the reduction of energy costs by the design and installation of contemporary energy efficient light fittings and associated control systems.

Our lighting solutions incorporate advanced photometric design and intelligent sensor control with optimised low-energy T 5 fluorescent technology, making our installations highly efficient and able to react automatically to the surroundings.



Power

power distribution and lighting

Intelligent Sensor Systems

Workspace Technology can offer luminaires programmed to react intelligently to the surroundings. The intelligent sensor system on each luminaire will, if appropriate, "harvest daylight". Using high quality ballast systems, the luminaire will dim to compensate for higher levels of natural light. This maintains operational light levels for a lower luminaire output. This increases the effective energy efficiency by adding to the 50% savings already achieved.

In addition, passive Infrared sensor technology will detect when there is activity in proximity of the light and will switch off lights that are surplus to requirements (or dim back as appropriate). The combination of these features will often deliver energy savings in excess of 80% over conventional lighting, thereby significantly reducing the energy bill and the carbon footprint whilst also improving working conditions.

Energy efficient lighting installations have a number of advantages over traditional or existing installations:-

- Significantly reduce electricity consumption
- Significantly reduce maintenance
- Improve working conditions with better quality light
- Provide more control over your lighting
- Provide Intelligent control
- 80% less power than traditional installations
- Delivers an extended life span.

Critical Power

Workspace Technology offer a comprehensive range of both single phase and a choice of three UPS systems to meet individual customer demands. Single high capacity, rack mount UPS or modular distributed systems can be installed depending on the nature of the facility.

Workspace Technology will deploy designs to meet peak power demands with appropriate battery storage depending on the desired cover periods. UPS solutions create time, allowing for controlled shut down of server and storage technology, or provide back up to emergency distribution.

Where extended run times are required, Workspace Technology offers a range of power generators. Power generation capability is key to achieving high availability and continuous operation in utility power failure situations.

Based on our power calculation review which includes current and future loads, our engineers will ensure generator systems will be scaled to meet building facility demands.

Electrical Design

Workspace Technology's project engineers use AMTECH ProDesign, one of the UK's leading electrical design packages. This ensures full electrical design and calculation to BS 7671 17th Edition with correct cable sizes, discrimination, breaker ratings and settings.

All installations are provided with detailed one line schematics, distribution board schedules and system calculations, with cable sizes, volt drop levels, system impedances, protective devices and protection studies.

By using AMTECH ProDesign, Workspace Technology are able to offer you complete peace of mind.



Security

secure building environments

Workspace Technology offer a range of security related building technology, including Access Control, Door Entry, IP CCTV and Intruder Alarm installations.

IP CCTV Network Video Technology

Workspace Technology provides the design and installation of digital network video technology. This provides cost effective security and monitoring solutions, delivered over an IP network infrastructure.

Unlike analogue video systems, network video uses the network, rather than dedicated point-to-point cabling as the backbone for transporting information.

The term network video refers to both the video and audio sources available throughout the system. In a network video application, digitised video streams are transferred to any location in the world via a wired or wireless IP network, enabling video monitoring and recording from anywhere on the network.

Network video can be used in an almost unlimited number of situations. However, most of its uses fall into one of the following two categories, i.e. Security Surveillance and Remote Monitoring.

Workspace Technology's wide selection of Fixed, PTZ and Day/Night IP camera technology offers clients a broad range of configuration options. Power over Ethernet (PoE) 802.3af camera options reduce costs and improve speed of deployment.

Our engineers work with customers to determine event trigger, compression and associated digital storage requirements to deliver a complete turnkey client solution.

Access Control & Door Entry Security Systems

The installation of Access Control enables businesses to control who is entering the premises and where and when. Access Control can help protect employees, visitors, property and sensitive information by securing certain sectors of a building as required.

Workspace Technology includes the design and installation of Access Control and Door Entry solutions within our Building Systems portfolio. Our range of offerings include solutions for standalone doors from digital keypads to proximity readers. In addition, we offer flexible systems for small to medium-sized enterprises and scalable card access control systems, designed to facilitate the most demanding requirements for any size of enterprise.

Solutions are engineered to meet individual client requirements.

Door Entry systems compliment our Access Control products to create an effective audio/visual building access solution.

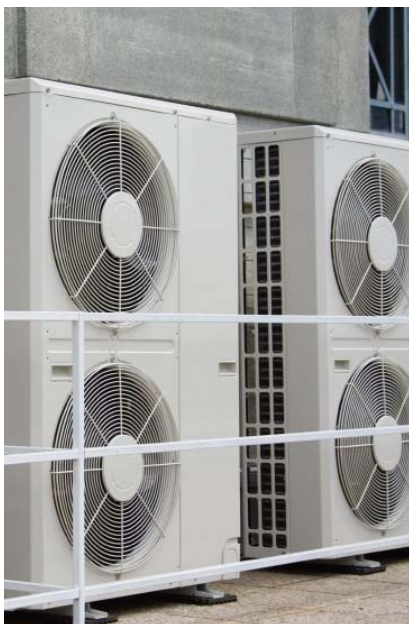
Intruder Alarm Systems

An office or business outlet represents a substantial part of any firm and it is crucial that such an important investment is fully protected. Theft of vital data or information could be disastrous and potentially ruin a business.

Providing peace of mind, Workspace Technology offers intruder alarm design and installation services. Our approach to intruder alarms and security systems ensures that your system solution is user-friendly, simple, trouble free and effective at protecting your business, employees, visitors, information and assets.

Whether you need external intruder detection, building security, or to safeguard key internal areas, we have the answers you need. Workspace Technology will assess the particular risks your premises and operations present, and build a burglar alarm solution around them combining proven techniques with leading edge technology.

All installation & commissioning will be performed by fully registered SSAIB installers.



Cooling

office comfort cooling systems

Air-conditioning systems keep people comfortable and keep equipment and facilities operating at maximum efficiency.

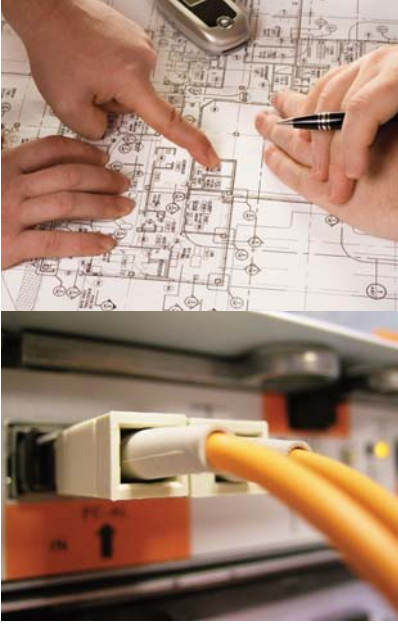
The installation of state of the art, energy efficient air-conditioning systems compliment our expertise in cooling within server room and data centre environments. Workspace Technology offers a large choice of indoor units, including cassettes, ducted, floor-mounted and wall mounted units to suit individual office requirements.

We offer innovative technologies in all areas, delivering superior performance for both heating and cooling applications with reduced power consumption. Our systems offer sophisticated inverter control, with dual compressor technology matching the actual refrigerant flow to the capacity required by the application for each indoor unit.

Our systems offer installation flexibility and ease, long operating life and increased energy savings.

Workspace Technology provides a complete turnkey solution, undertaking all building works, electrical, containment, installation and commissioning of air conditioning systems.

- Reduced CO₂ emissions
- Use of recyclable components
- Reduced power consumption
- Systems incorporate the energy efficient, non-ozone-depleting R410A
- Zero ozone-depleting potential
- Significant increase in energy efficiency
- Reduced pressure loss for improved performance.



Providing a service... An Interactive Experience

Workspace Technology's operational & professional services are driven by our customer experience. Throughout all stages of contact, our processes and procedures are aligned to ensure that expectations in design accuracy, systems interpretation and installations quality are maintained.

Our service centric approach has been succinctly defined across a number of service definitions. These definitions map customer contact from project initiation through to final project sign-off and beyond, extended over the lifetime of the solution. The following outlines Workspace Technology's four service definitions.

Engage...design, planning and deployment services

This represents Workspace Technology's approach to aspects of design, planning, deployment and project management services.

Consult...consultancy, audit & survey services

Consult provides professional advice on all aspects of data centre design, deployment, sizing and availability and includes a range of survey and audit services.

Support...planned and contract maintenance services

Workspace Technology offers a range of planned preventative maintenance and 24 x 365 callout service contracts to ensure critical system availability is maintained.

Intouch...online remote managed services

Provides clients with a 24x365 on-line remotely managed data centre, server room and building infrastructure services.



Commitment Quality & Safety

The expertise of Workspace Technology is associated with a quest for total quality, not just our products and services but which also extends to our employees. It is through the quest for total quality that Workspace Technology has achieved the prestigious ISO 9001 accreditation.

Workspace Technology deploys a philosophy of continual development and training across the company. The health, safety and welfare of our employees and customers is of paramount importance to Workspace Technology. The company is committed to implementing Health & Safety at Work and are an accredited CHAS approved contractor.



Business Divisions Performance and Reliability

Workspace Technology delivers clients with a competitive advantage through the design and implementation of flexible and reliable Data Centre Solutions, Building Systems, Interior Solutions and in the provision of Professional Services. This one-stop approach to “workspace technology” is applied to commercial; manufacturing and data centre, server and communications room environments.

Our solutions offering is delivered through our focused business divisions:-

Data Centre Solutions: expert energy efficient data centre, server and communications room solutions and services.

Building Systems: intelligent building infrastructure services which include Communications, Power, Security and Cooling technology.

Interior Solutions: commercial interior renovation, dilapidation and fit out services including partitions, ceiling systems, raised access floors and finishes.

Professional Services: expert knowledge within project planning, design, consultancy, training, planned maintenance, customer support and remote managed services.

Making the difference

Connecting with our clients

Workspace Technology's Building Systems division offers clients intelligent building infrastructure services which include Communications, Power, Security and Cooling technology. By engaging with you and taking the time to understand your business and performance related issues, Workspace Technology is able to effectively address the demands of your business.

Workspace Technology welcomes this opportunity to connect with you as a valued customer. We would like to share our vision and expertise through a partnership approach. Our ability to deliver integrated, scalable, energy efficient solutions has made us the preferred choice for many public sector and commercial businesses today.

Operating throughout the UK, Workspace Technology offers clients an enthusiastic and refreshing approach, combined with teamwork that takes performance and service to new levels of excellence.

Further details of Workspace Technology's products and services can be found at www.workspace-technology.com.



Approved "Endorser" EU "Code of Conduct on Data Centre Efficiency"



APC Elite Partner
Data Centre Certified



Workspace Technology's "Commitment to help clients reduce their carbon footprint through the deployment of energy efficient technology and design".



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Creating an effective workspace environment