Connectix
Cabling Systems™

Connectix Cabling Systems™
Infrastructure Technology

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Connectix Infrastructure Technology
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Connectix Infrastructure Technology
Why Choose Connectix?

Connectix Cabling Systems™ is a leading manufacturer of communication solutions for IT transport network. We also design, develop and manufacture components for customer-specific applications providing expertise, knowledge and experience in delivering projects outside of industry norm specifications.

Committed to excellence in quality, our manufacturing facilities include world-class cable production capability for copper, fibre, coax and voice alongside technologically advanced metal fabrication and finishing for cabinets and enclosures.

The Connectix Cabling Systems™ portfolio includes over 15,000 products, serviced through dedicated client internal customer account managers and an international distribution channel program – providing exceptional support and service.

Committed to excellence in quality, our manufacturing facilities include world-class cable production capability for copper, fibre, coax and voice alongside technologically advanced metal fabrication and RAL powder paint finishing for cabinets and enclosures.
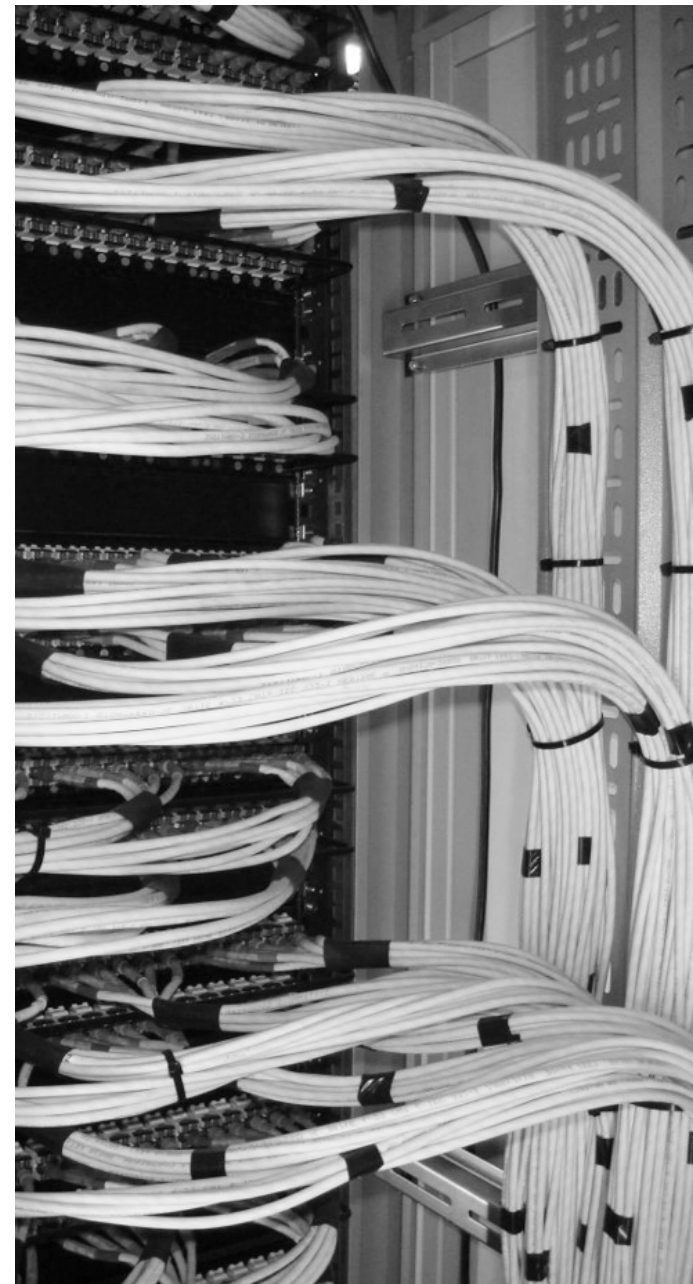
For 25 years Connectix Cabling Systems™ has approached infrastructure projects with a personal touch, gaining knowledge of the clients vision and ensuring that product solutions can be supplied or custom-designed to meet the project concept.
An unrivalled capacity of copper and optical fibre technicians provides clients with the fastest delivery times for top end technology assemblies, coupled with 24-7 manufacturing and production.

Connectix is committed to the research and development of new products with a team of experienced professional mechanical and electrical engineers to produce innovative solutions that reduce cost by unit and speed up installation.

Connectix engage directly with end clients in partnership with highly trained, professional Approved Installer's. We strongly believe that our product design teams, our technical support managers and commercial sales team should engage openly to provide a personal, consultative business partnership that fully supports any individual project deployment or generic organisation infrastructure specification.

Connectix Cabling Systems™ doesn't just deliver on industry standard performance, we exceed.
We provide product installation and application warranty for 25 years. We independently test and channel the component compliance for systems installed by Connectix Certified Professional Installers, giving us another edge towards the most trusted, respected structured cabling system manufacturers in the world.

Connectix Infrastructure Technology
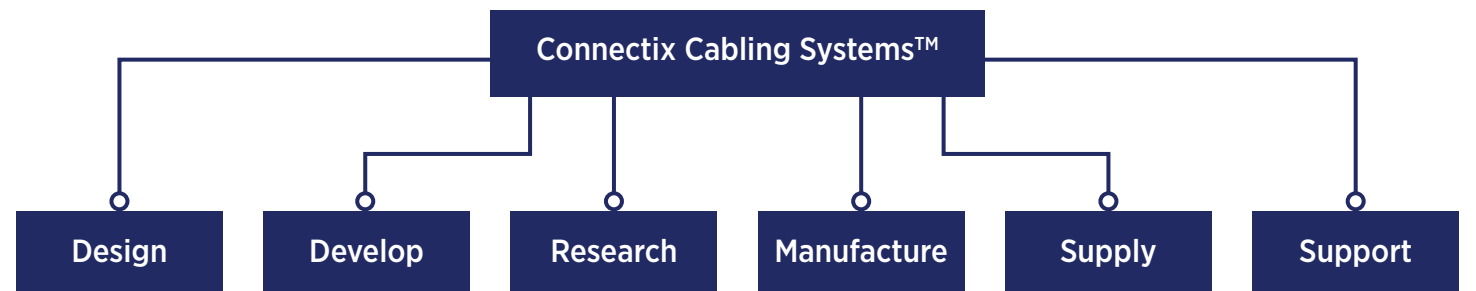## Technology Embraced

The living world as we know it today is empowered by technology; connecting devices over the internet to allow applications to talk to us and each other. This is the Internet of Things (IoT), a platform for smart technology deployed throughout business, social media and at home. The IoT connects everything from small appliances, LAN hardware, scaling through to smart cities.

The ability to integrate technology into building infrastructure projects encourages energy efficiencies, safe and secure working environments and intelligent connectivity, designed to improve business functionality and everyday living.

Cabling infrastructure is at the heart of technology design, providing a transportation platform suitable for today's application capabilities and tomorrows business innovation and expansion. A cabling infrastructure needs to be flexible in design, performance future proof for best ROI, whilst maximising green efficiencies during manufacturing and production; and it doesn't need to cost the earth either.

Connectix Cabling Systems are committed to the development of cabling solutions that allow advanced digital solutions and smart technologies, designed specifically for each industry sector to get the best technical performance from their cabling architecture. New products for automotive, energy and utilities, manufacturing, education, retail, insurance, finance, data centres, healthcare, broadcasting and commercial fit-out all present their own unique challenges in project planning and deployment. Connectix explores our client's ideas, their concepts, understands their facilities, their management and their vision. This enables us to provide clients with solutions that produce new levels of business performance and excellence and everyday service and support for your network services.

We provide ultra-fast and low latency fibre optic solutions, integrated IP-rated connectivity for inbuilding distribution and outdoor services alongside optimised copper cabling networking systems.

Connectix Cabling Systems™

| Design | Develop | Research | Manufacture | Supply | Support |

Connectix Infrastructure Technology
Technology History

Year	Achievement
1993	Founded as Connectix Limited; a cabling assembly production manufacturer and distributor of network components.
1994	Launched Connectix Cabling Systems Cat 5 Copper and Optical Fibre Cabling System. Connectix also Introduced Connectix Cabinet and Enclosure Solutions, now known as RaxPro™, ServerPro™, DCSPro™ and Connectix Residential Systems.
1995	Established as one of the UKs leading supplier of optical fibre cabling and components.
1996	Launched Connectix Cat 5E Copper and Optical Fibre Cabling Systems. Introduced Connectix Certified Installer Program, Structured Cabling Installation and Fibre Optic Termination Courses.
1999	Product patent certificate issued for Cable Management Ring System.
2001	Launched Connectix Cat 6 Copper and Optical Fibre Cabling System.
2003	Connectix introduces testing of all twisted-pair copper cables with HP analyser Appointed Middle East Africa Certified Installer Program after securing signature projects in Dubai Festival City.
2005	Recognised as UK's fourth largest supplier of Structured Cabling Systems by BSRIA.
2006	Recognised as UK's largest supplier of Structured Cabling components by BSRIA for UTP outlets (over 1.8m, market value £171m) Launched Connectix Cat 6A Copper and Optical Fibre Cabling System. First UK based manufacturer to achieve 3rd party channel compliance for Connectix Cat 6A 10GbE copper cabling system.
2008	Connectix launches X-Connect™ harsh environment optical fibre solutions for broadcasting market.
2009	Connectix becomes the first UK based, USConec licensed manufacturer of MTP® solutions with Connectix Starlight™ System. Connectix introduces a European range of copper cabling connectivity and appoints distribution partners for Benelux and Eastern Europe. Connectix appoints partner for Hong Kong, Macau and Mainland China after securing prestigious Ritz Carlton Hotel projects in Hong Kong.
2010	Connectix relocate to purpose built manufacturing and production facilities in Braintree, Essex UK. Connectix appointed EU Code of Conduct Endorser by European Commission Joint Research Centre, Institute of Energy, (Renewable Energy Unit).
2012	Introduce Connectix Residential Systems – residential and hospitality building infrastructure copper, fibre, coaxial and cabinet solutions and now pioneer the market for multiple-dwelling unit enclosure manufacturing.
2013	Connectix enters the carrier market, manufacturing optical fibre constructions with core counts from 96, 192, 216, 432 fibres, providing solutions for fibre metropolitan area networks.
2016	Connectix FibreFox™ range of Fusion Slicers, OTDRs, Testing Tools and Consumable Kits is launched.
2017	Connectix Continuous Education Program released for consulting engineers, building professionals and Connectix Certified Installers.

The Connectix Cabling Systems™ product range covers Category 5e, 6 and 6A cabling, optical fibre and other containment and interconnect solutions. Connectix is renowned for innovation and our in-house facility makes it easy to customise products to fit clients exact requirements whenever necessary. Since it was formed in 1993, Connectix has become one of the UK's leading manufacturers and distributors of networking systems for data and voice.

Every business is different, which is why every Connectix Cabling System can be individually designed and installed by a Connectix approved installer. Individual planning ensures that every company that chooses Connectix receives the ideal infrastructure for their unique requirements.

Connectix Infrastructure Technology
Technology Market

Connectix CEP
The Connectix Continuous Education Program gives Building Design Professionals an the opportunity to learn more on the impact of change in technologies.

AV and Comms
Connectix manufactures solutions for smart homes including HDMI, home automation technology for audio visual and Ethernet KNX/IP based transmissions.

Residential
Connectix Residential Systems is the largest range of physical infrastructure solutions for home automation and multi-dwelling property developments including riser, headend and main equipment room installations.

Data Centre
Connectix manufactures a range of premium quality ServerPro and DCS Colocation Cabinets and RacePro™ trough and ladder pathway suitable for Tier-4 data centre facilities.

Broadcasting
Connectix Fibre Optic Cabling Systems provide harsh environment and tactical cable connectivity for use within media, entertainment and broadcasting industries.

FTTx
Connectix BloFi™ provides optical fibre cabling and tubing solutions for indoor/outdoor carrier distribution networks, serving routing within ducts, conduits into and throughout building developments.

SAN
Connectix MTP® Systems manufactured in the fastest production time in the UK, with high-density horizontal and vertically mounted cassette based systems for 12 and 24 way MTP® trunk connectivity.

Fibre MAN
Connectix optical fibre cabling solutions for dark fibre and metropolitan area networks provide capacity and platforms for WAN and carrier markets, including reduced OD cable constructions and high fibre counts including 432 & 864 fibres.

LAN
3rd Party, independently tested and verified Connectix Copper and Optical Fibre solutions for ISO, EN and TIA compliant standards for ultimate high-speed transmission networks.

Connectix Infrastructure Technology
Technology Innovated

Connectix Cabling Systems™ is a global supplier of copper cabling systems, fibre optic connectivity, racks and enclosures for IT connectivity in LANs, Data Centres, fibre metropolitan networks, harsh environment applications, niche residential or smart home and FTTx applications.

The Connectix solution portfolio includes high performance copper and optical fibre cabling connectivity including pre-terminated and high-density Connectix MTP® systems, unique harsh environment connectivity and indoor & outdoor enclosures for LAN, data centres and Outside Plant (OSP).

Connectix uses advanced design and development techniques when expanding on the exclusive portfolio of products; investing in prototype modelling and laboratory testing to change industry thinking. Connectix consistently produce industry leading product innovations, keeping Connectix at the forefront of the market.

Connectix Cabling SystemsTM has a strong worldwide channel, having exported to over 100 countries and working with some of the industry's most respected distributors and certified system installation partners.

The Connectix head office and manufacturing plant in Essex, England, comprises over 50,000 sq ft, featuring copper and optical fibre termination facilities, component testing and product design and prototype modelling machinery.

Our cabinet manufacturing facilities, include a further 40,000sq ft featuring punch and fold production, Amada machinery, automated sheet loader and press brakes. Fully trained professional engineers are employed in the welding and assembly departments and our powder coating machine is state-of-the-art.

To provide complete integrity and confidence in Connectix the system is independently third party verified in component and channel performance and provided with a 25-Year System Warranty when delivered by a Connectix Certified Partner.

1u Elite Patch Panel

1u Elite Patch Panel & Duel-end Brush Strip Enclosure

Connectix Infrastructure Technology
Technology Improved

Connectix™ was one of the first structured cabling systems manufacturers to develop a generic copper twisted pair and optical fibre connectivity solution, arriving to market in 1994 after the introduction of ANSI ratifying TP-PMD over Category 5 UTP and quickly after EIA/TIA-568. Prior to this, Connectix had become a trusted manufacturer of assemblies supporting LAN technologies such as Arcnet, then thin and thick Ethernet, coaxial, Make-Before-Break (MBB) assemblies, IBM type 1 cabling products and Fibre Distributed Data Interface (FDDI).

Fast forward to today and Connectix offers product options for Category 7A, Category 6A, Category 6 and Category 5E shielded and unshielded solutions, including keystone and IDC punchdown modules and patch panels, pre-terminated cabling and patch leads.

All Connectix Cabling Systems meet and exceeds the ISO 11801:Ed2.2, ISO 60603-7-5, ISO 61156-5, EN 50173-1, EN50310 and EIA/TIA-568-C component and channel performance requirements.

Connectix optical fibre solutions provide low-latency, ultra-high speed transmission and connectivity within backbone, outside plant (OSP) and harsh environment networks. Comprising cable constructions for LAN, MAN, SAN and OSP architectures, patch panels and ODFs, splice tails and patch cords, pre-terminated and ruggedised assemblies, break-out splice boxes and distribution boxes and wall mounted enclosures. Connectix fibre products are manufactured to the highest industry specifications supporting multimode to OM5 and singlemode OS1/OS2 ITU-T specifications.

Connectix racks, cabinets and enclosures are British designed and manufactured to BS 5850/3192 and IEC 297-2 in the UK. Connectix racks and cabinets are used across multiple business sectors within LANs and data centres.

The portfolio includes server, collocation and advanced patching frames, IP rated riser, external cabinets and niche residential solutions manufactured to each individual project specification.

Connectix Infrastructure Technology
Technology Delivered

Connectix has a clear strategic objective as part of our company mission; to ensure our solutions are delivered to the market with professionalism and exceptional service. The Connectix Installer Program is a vital part of delivery and our partners can engage with us through every step of a project; training and development, design and specification, technical submittal and tender response, on-site delivery, testing and commissioning, handover O&M and Connectix 25-year warranty.

The Connectix Installer Program gives our partners comprehensive support, including access to technical and marketing resources, dedicated account managers and product design teams. Accreditation is awarded through demonstration, commitment and experience of IT infrastructure system delivery, ensuring reliability and consistency of installed Connectix Cabling Systems™.

Connectix Certified Professional Installers and Connectix Certified Registered Installers recognise the importance of workmanship, service competence and improvement in professional development. Connectix is committed to working strategically with our partners to continue to develop innovative systems and industry leading products that meet the IoT of tomorrow.

Connectix support channel partners with constantly updated standards compliant training courses. Connectix affiliates also benefit from educational workshops as part of Continuous Professional Development (CPD).

We recognise the importance of design and specification knowledge, high quality workmanship and service competence when delivering IT building projects across varying environments.

The Connectix Continuous Education Program gives Building Design Professionals and Registered Installers the opportunity to learn more and enhance their knowledge on the impact of change in technologies.

Connectix Infrastructure Technology
Technology Transported

As technology develops and bandwidth speeds increase the structured cabling system architecture must integrate with more and more devices, applications and services. As one of the markets longest and trusted manufacturers, Connectix Cabling Systems™ will always abide to a coordinated focus on product design, development and innovation. Connectix was the first UK-based Manufacturer to achieve complete independent Third Party compliance for our Category 6A 10 Gigabit Ethernet copper cabling system.

Connectix Cabling Systems™ was the first UK based manufacturer to become an endorser for the EU Code of Conduct on data centres and still maintains this accreditation today. Working within the market to ensure the most efficient and eco-friendly cabling design solutions are developed and deployed.

Connectix is the infrastructure system of choice for major companies in the UK, providing the cabling system for some of the most important IT transports systems in the world including Vocalink (banking payment processing, 11 billion transactions in 2016 valued at £6 trillion), the BBC (employing over 20,000 staff in total and revenues exceeding £5 billion) and EU Networks (fibre based city networks providing bandwidth infrastructure services across 45 cities in 10 countries).

As technology continues to empower global business operations and social interaction, Connectix will continue to network the IoT. Everything around us communicates and connects, with smart city developments providing IT to network our schools, libraries, offices, data centres, hotels, hospitals, power plants, water supply networks, universities, waste management, law enforcement and social community services. Connectix Cabling Systems™ are the cabling infrastructure solution for technology; today, tomorrow, and into the future.

Connectix structured cabling infrastructures and solutions can be found globally including:

- Formula One racetracks
- UEFA European Championship Stadia broadcasting systems
- Dubai Festival City in UAE
- US Army base in Kuwait
- Ritz Carlton Hotel in Hong Kong
- Greek Ministry of Education
- Egyptian Ministry of Justice
- Pan Ocean Oil Corporation in Nigeria
- Brugge Railway Station for Belgian Rail Road
- King Abdullah Financial District in Kingdom of Saudi Arabia
- Ministry of Health in Bahrain
- Chasebank in Kenya
- Barco in Gibraltar and BWIN in France

CODE OF CONDUCT DATA CENTRES
Endorser

Connectix Infrastructure Technology
Technology Connected

Connectix Cabling Systems™ continue to develop optimised copper and optical fibre networking solutions for the ever-growing IoT and array of IP-based applications, that demand faster transmission speeds and more bandwidth. Research from the University of Southern California reported back in 2007, suggested that humankind successfully sent 1.9 zettabytes of information through broadcast technology such as televisions and GPS.

As data centres exacerbate storage rates through terabyte to zettabyte and IT network architects design and facilitate major developments using BIM modelling, the importance of physical infrastructure development and reliability is vital.

Manufacturing Capability

- Connectix™ manufactures over 2.1 million Printed Circuit Boards (PCB) per year and more than 6.3 million individual Insertion Displacement Connectors (IDCs).
- Flow solder line typically makes over 170 connections every 15 seconds.
- Connectix produce 75,000 copper patch panels per year. That's over 250 patch panels formed and spray painted each working day.
- Injection moulding tools produce more than 5.2 million components per year.
- Connectix terminate more than 1.5 million copper patch leads and 500,000 fibre optic terminated assemblies per year.
- Connectix copper twisted-pair cables are manufactured in partnership with BT Cables, operating more than 115 years and providing revolutionary cable designs that optimise performance and capacity, whilst maximising space and reducing installation overheads.
- Connectix has supplied in excess of 70 million copper cabling links since formation in 1993, supporting a channel of over 1,000 structured cabling installers.
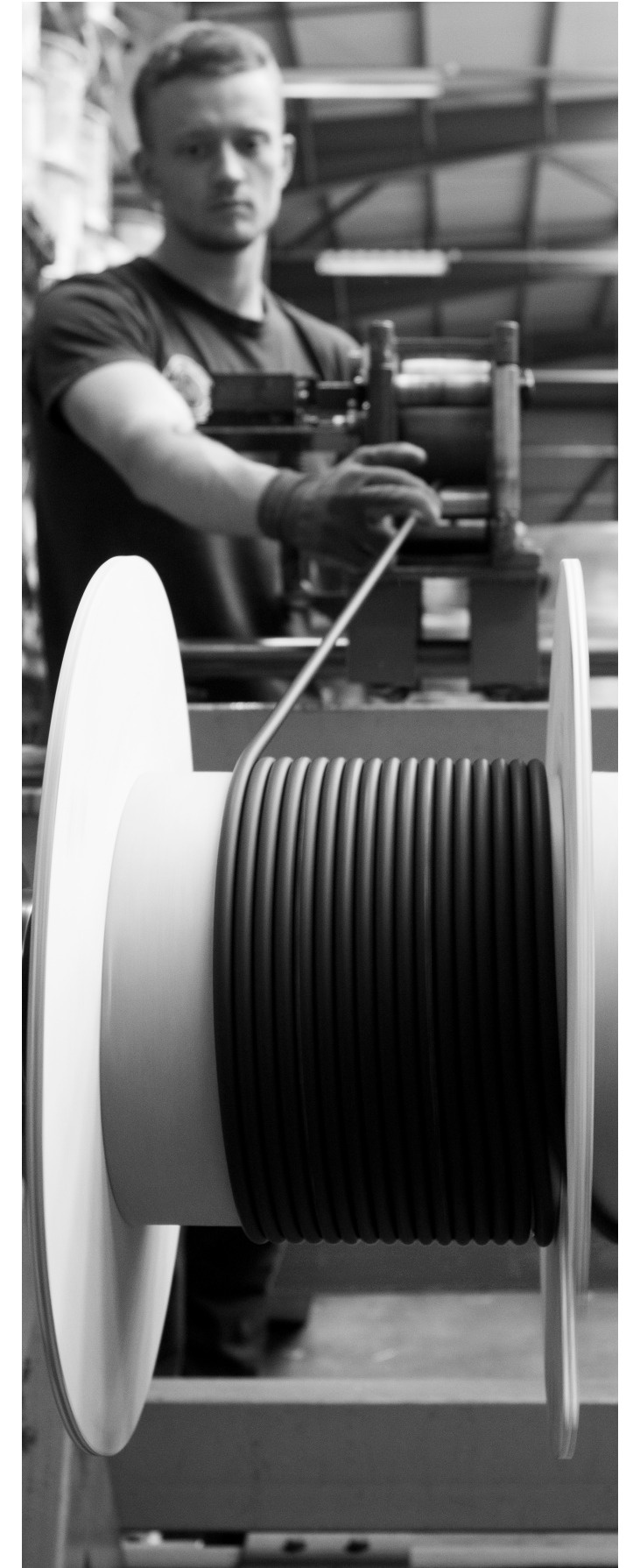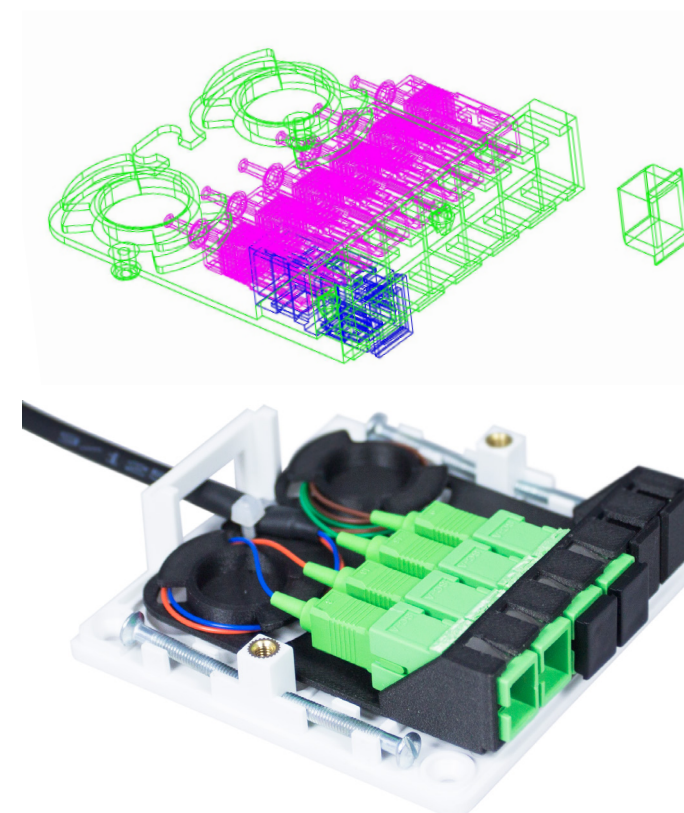
Research and Development

- R&D testing areas for protocol transmission, bandwidth measurement and product development.
- HP Network Analysers used within Near End Cross Talk and Return Loss horizontal cable testing.
- Plastic and solid prototype modelling machinery producing hardware designs.
- AutoCAD™ and Solidworks™ 3D Product Designers; have produced over 50 Connectix Residential Systems and 35 DCSPro solutions in the last 2 years for specific projects.
- Connectix MTP® Systems manufacturing machinery specifically designed for high-speed, ultra-quality production.
- Connectix copper and optical fibre solution manufactured to current and developing industry standards, ensuring constant interruption of legacy brands and continuous system innovation.
- Connectix cabling systems for copper, optical fibre and cabinet/rack manufacturing all carry 3rd party test approvals from DELTA, 3P and Building Investigation & Testing Services for ISO 11801, EN-50173/50174 and TIA/EIA standards compliance.
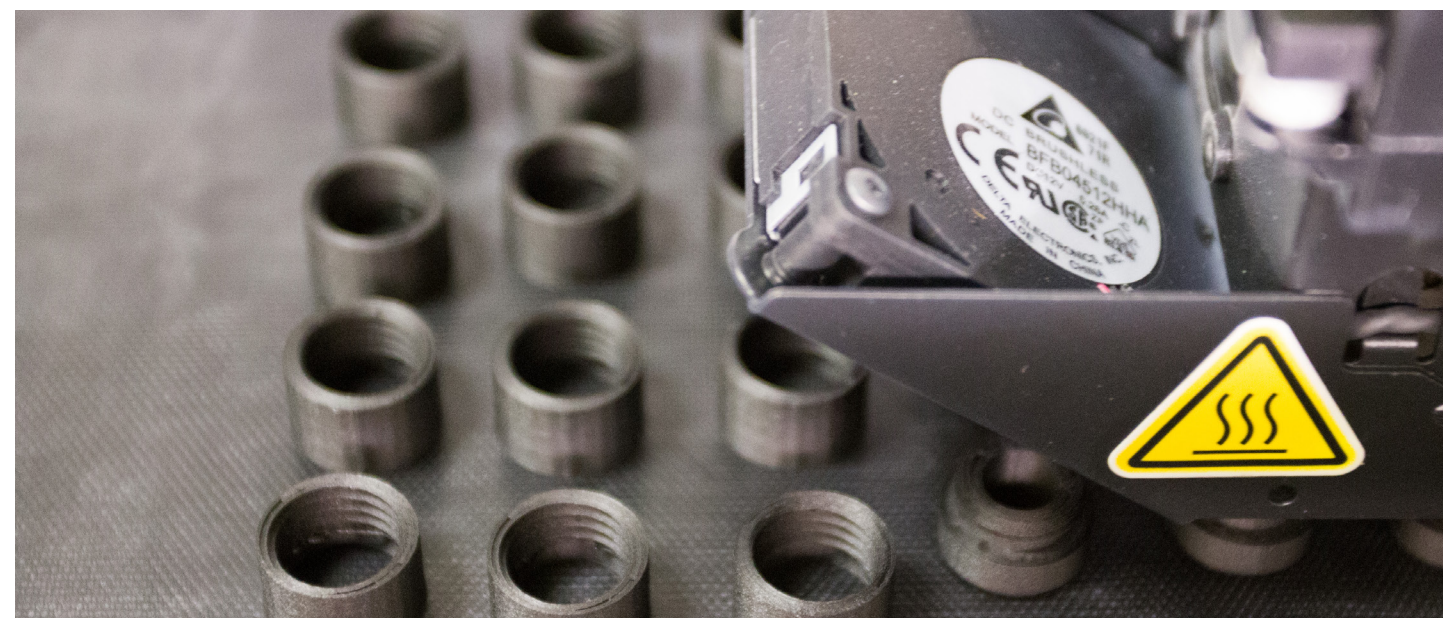
Connectix Infrastructure Technology
Technology Progression

Product Innovation

- Connectix provide shielded IDC punchdown and keystone connectivity options in Cat 5e, Cat 6 and Cat 6A.
- Copper patch panels are available in 1U 48 port keystone, 24 port keystone and IDC and 0.5U IDC variants, including standard and 90 degree IDC presentation (2020 series).
- Connectix FibrePro optical fibre panels offer integrated internal splice management, quick and easy installation, sliding tray and closed front plate for enhanced cable presentation.
- Connectix harsh environment provide solutions for the broadcasting industry and outside plant environment, including tactical pre-terminated fibre cabling, IP-series fibre connectivity, ruggedised Connectix MTP® Systems and external IP-rated cabinets and enclosures.
- Connectix BloFi™ features bend sensitive optical fibres, fibre tubing and multiple cable options for true FTTx solutions.
- Connectix 4000 Series is a UK patented 4-way compact RJ45 outlet range featuring tamperproof and vertical IDC high-density options.
- Connectix RacePro™ solutions used within data centre cabling infrastructure provide options for overhead path ways including raceway and waterfall troughs or ladder managed concepts.

Connectix Infrastructure Technology
Technology Friendly

Connectix is a British based manufacturer with research and development, product designing and prototyping, manufacturing and production and in-house quality assurance and testing. The success of the company has been built on consistent innovation in brand product adoption, with Connectix consistently introducing new connectivity and cabling solutions to market in line with standards development. Connectix is aware of our social responsibilities to the environment and community and works to improve internal processes to ensure sustainable business improvement.

Social Environment

The Connectix ethos places employee and stakeholder association as a priority for satisfaction within the working environment. Environmental training is identified and provided which ensures all employees are fully aware of their responsibilities within a eco-friendly workforce.

The health and safety of every employee and the working environment is non-negotiable and we take great pride in having a committed workforce, demonstrating a competent and efficient place of work.

Carbon Management Contribution

Working closely with our own component and material vendors, Connectix monitor the environmental effects associated with the production sites.

Within manufacturing of Connectix cables, the materials, design, processes, products, sale and distribution are identified and evaluated with the objective of reducing and controlling pollution and adverse environmental impact.

Promoting Green Efficiencies

Connectix was the first UK based structured cabling systems and cabinet/racks manufacturer to become an EU Code of Conduct Endorser for data centres.

As Connectix has pioneered the way within the UK market for pre-terminated copper and optical fibre cabling solutions, we have long promoted the benefits of energy efficiencies within the LAN, SAN and data centre space.

As Connectix control the manufacturing, production and logistics of product delivery, clients can benefit from reduce waste, less carbon emissions and greener solutions within cabling design.

Waste Recycling

Located within the manufacturing and production plants, the reduction of waste, recycling of packaging, waste disposal, material and machinery and the use of energy is under constant operational control.

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