

# ITM Solution Brief

## Pre-terminated Cabling



**ITM Communications is an independent specialist provider of cost effective and energy efficient ICT infrastructure services and solutions to the corporate, financial, government, defence, healthcare, construction, systems integrator and outsourcer markets in the UK, Europe and Middle East.**

### The Challenge

With the rise of intelligent buildings and integrated system networks, there is a growing need for businesses to invest in a structured cabling system that not only meets the demands placed upon it today, but is also scalable for future growth.

However, performance is not the only issue. Many mission critical installations are performed 'out-of-hours' to minimise network downtime and disruption to the business. Even on new building installations, network cabling installers may face strict access and deadline pressures, or lack the required staff numbers to meet a project deadline.

### The Solution

As pioneers in structured cabling systems design and implementation, ITM offers a unique pre-terminated cabling solution that requires no on-site termination or certification testing. This dramatically reduces both installation time and cost.

A fully pre-terminated system, where each individual cable is terminated and tested by ITM before being delivered to site, enables a team of five engineers to install over 1,000 outlets within a single day, to the highest standards of quality and performance.

Benefits of using a pre-terminated cabling solution include:

- Significantly reduced installation timescales
- Quality controlled and 100% factory tested
- No site storage requirement and no site waste
- Improved manageability with data exported directly to CMS packages
- Access to unrivalled expertise and experience
- Largest investment in Cat6a test equipment within the industry

## The Technology

Manufactured at a dedicated in-house pre-terminating facility, ITM's patented approach applies software driven processes to manage and track the process from start to finish.

As the loom is pulled a label set is created. The labels are colour coded to match the cable tracer colours, and a bar-coded drum label is printed to show project details and assembly instructions. As labels are printed directly from the database, complete accuracy is guaranteed.

Once the cables have been cut and bundled, they are carefully assembled following the precise instructions on the label sets. Following assembly each bundle pair is tested to prove connectivity.

Working with Ideal Industries, ITM has developed the industry's most sophisticated testing software available today. Each cable is comprehensively tested through the ITM interface and data is downloaded to create a unique graphical representation of the cable's performance.

Following testing, the cable assemblies are shrink-wrapped and delivered to site. Immediately following installation they are tested for continuity, followed by a sample test using the Ideal Industries LANTEK 6a tester.

## Unique Process Tracking

As the manufacturing process is CAD supported and software controlled, ITM is able to offer the unique ability for clients to track bundles throughout the production and installation process. With secure access to the ITM network clients can monitor the status of their projects in real time. As each cable is tested the graphical results are available online, and full ISO9001 batch traceability allows the precise monitoring of each product shipment.

Project Managers can also use the Site Installation sheets to track the following site-based stages:

- Bundle received on site
- Bundle installed
- Box end fitted
- Cabinet end fitted
- Visually inspected
- Continuity tested
- Witness tested

Online information allows the site tested to be automatically configured with the precise test settings for an individual project, ensuring the correct test mode is used for all site-based testing. These results can then be uploaded, giving all members of the project team access to them. This online system can also be used by the client to order any moves, adds, or changes, as well as logging service requests.



By adopting a flexible approach to client requirements, ITM applies best of breed technology, in-house expertise and innovation, to deliver compliant solutions and services that offer value for money and achieve industry best practice.

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