



LMG Rapid Infrastructure Deployment Cable Pre-Termination Services

Factory made, bespoke length, fibre and copper based IT cabling solutions to support safer, faster and more environmentally friendly cabling projects

LMG's Rapid Infrastructure Deployment process supports the design and deployment of copper and fibre optic cabling systems, for both data centre and office environments, in the most effective, efficient and sustainable manner, delivering significant savings in time and money.

This process, unique to LMG, is comprised of an integrated CAD, manufacturing and deployment management system that enables the rapid deployment of cabling infrastructures whilst simultaneously:

- Saving up to 10% of cable volume
- Minimising waste cable and packaging materials
- Reducing the time required on site by up to 60%
- Compressing the overall infrastructure procurement cycle by 40%
- Ensuring optimum system performance and quality

WHAT IS PRE-TERMINATION?

'Pre-termination' is an IT cabling industry expression for the process of creating off-site, in a factory environment, multi-link fibre optic or copper based cable assemblies, equivalent to those found in traditional, site terminated solutions. For example:

- 24 way cabinet interlinks
- Floor outlet box to patch panel links
- Harnesses for LAN and SAN switch links



Depending upon the installation environment and any constraints from the particular cable specification, pre-terminated assemblies can either be terminated at both ends (double-ended) or at one end only (single-ended).



ACCURACY IS KEY

The secret to successfully implementing a pre-terminated solution is to have very accurate length calculations for each cable assembly. At the design stage, LMG uses its own bespoke CAD technology that has been optimized for the pre-termination process, producing the



WHO IS PRE-TERMINATION FOR?

- Data Centre managers
- Construction & Fit-out companies
- IT managers
- Consultants

WHY USE PRE-TERMINATION?*

- Solutions delivered 60% faster
- 10% reduction in materials and waste
- Instant design recalculations and recosting
- Design freeze window only 12hrs[†]
- Minimized materials storage on site
- 30% reduction in on-site staff
- Zero project delays
- Zero defects
- Minimized health & safety risks
- Minimised project Carbon Footprint

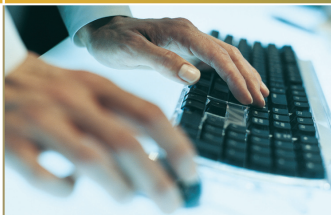
VALUE ADDED OPTIONS

- Online Project dashboard
- All drawings and connectivity data available for import to customer Cable Management System (CMS)
- LMG SmartSpace CMS application pre-populated with project data
- Integrated IP discovery tool for real-time tracking of IP assets and users
- Space utilization and capacity reporting

* Compared to traditional installation methods
†Time after which design changes cannot be submitted to production



Changing the way companies build, operate, and manage IT infrastructure



most accurate and efficient bills of materials available, thereby utilising less cable and minimising waste.

HOW DOES IT WORK?

Prior to a pre-terminated cable assembly arriving on site, it is tested; documented; packed; coiled and labelled ready to be installed in its specific location. The cable assemblies are packaged in their coils into bespoke carriers. The carriers are then loaded with the coils that match the project manager's installation schedule. If the installation is for horizontal cables, the coils are fitted onto horizontal turntables that allow multiple, simultaneous cable runs to be installed without applying any torsional force that could damage the cable assemblies.

SOFTWARE BASED QUALITY CONTROL ENSURES SUCCESS

Throughout the assembly process, LMG utilises its bespoke pre-termination application to optimise cable utilisation (drum wastage) as well as to record material batch traceability; operator details, test results and print assembly and packaging labels.

MINIMISED PROJECT RISK

One of the hidden benefits of taking a pre-terminated approach for major cabling projects is that any material defects are picked up in advance of when the assemblies arrive on site. Compare this with a traditional approach where a faulty batch of cable would only be discovered once it had been installed and terminated on site, requiring removal, re-ordering and re-installing resulting in a negative impact on the project program and costs.

SITEREADY PROCESS OPTIMISED FOR 14001

As part of its 14001 environmental management program, LMG minimises the environmental impact of its project delivery process through its innovative materials handling and logistics process known as SiteReady.

SiteReady minimises the amount of non-reusable packing material that is sent to site AND speeds up the installation process by grouping all of the materials that are needed by the installation engineers in logical working zones.

Prior to shipping to site, all superfluous vendor packing is removed from the materials and recycled. Protective, recyclable wrapping is then applied for transport.

Mobile containers, similar to 'wheelie bins', are used to safely transport the materials to site, where the re-usable packing material is removed and stored in the bins, along with any other site waste, ready for collection when the next scheduled material delivery occurs.

SiteReady:

- Minimises site waste material
- Supports safe manual handling processes
- Is environmentally friendly
- Improves work efficiency
- Integrated with the pre-termination process



LMG Services

Cabling Infrastructure design & build

- Copper & Fibre Optic cabling including pre-termination
- BICSI RCDD design and technical services
- Project management
- Intelligent Infrastructure Management (IIM) systems

Support

- On-site and call-out services
- Infrastructure break/fix
- Patching
- Moves, Adds & Changes
- Trading floors
- Capacity management
- Asset tracking
- Surveying & auditing
- Equipment provisioning & decommissioning

Data Centre Services

- Server Rack and Stack
- Patching
- Cabling
- Support

Multinational Roll-outs

- Cabling and patching
- Pre-occupational works
- Logistics management

ABOUT LMG

LMG provides Cabling Infrastructure Managed Services to enterprise companies throughout the UK and EMEA (via our subsidiaries). Headquartered inside the M25 at Thurrock, LMG has additional offices in London, Manchester, Edinburgh, Camberly and Cardiff. LMG was established in 1986 and provides some of the leading companies in the UK with Cabling Infrastructure Managed Services that optimise infrastructure change. LMG serves multiple industries, among them Financial Services, Technology, Telecommunications and Media.