



Systems & Products Overview

Better Technology Through Innovation

# Introduction

## HellermannTyton

*"Delivering effective structured cabling solutions"*

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Globally, HellermannTyton is an established and innovative leader in the provision of network infrastructure cabling solutions, offering a broad range of quality, high performance connectivity for both residential and commercial use.

### Why Choose HellermannTyton's global centre of excellence for network cabling?

- Largest UK manufacturer producing three million system points annually
- ISO 9001:2000 quality certification and ISO 14001:2004 environmental management accreditation
- Open, responsive and accessible personnel at all levels
- BICSI registered training available (Our training courses offer up to 13 credits)
- Multi-tiered installer programme
- On-site design and technical facilities allow us to remain flexible, enabling us to adapt and design products quickly – crucial in today's rapidly changing markets
- Wide range of reference sites across major industries including finance, education, government and health
- We are passionate about putting our customers first and pride ourselves on being easy to do business with
- 25 year warranty system
- We do not use lead based solder processes in our manufacturing and all products, where required, comply to the RoHS regulation requirements. Individual products are marked with the RoHS logo to show their compliance to the RoHS regulations

To find out more about HellermannTyton call:

**+44 (0) 1604 707420** or visit our website at **[www.htdata.co.uk](http://www.htdata.co.uk)**



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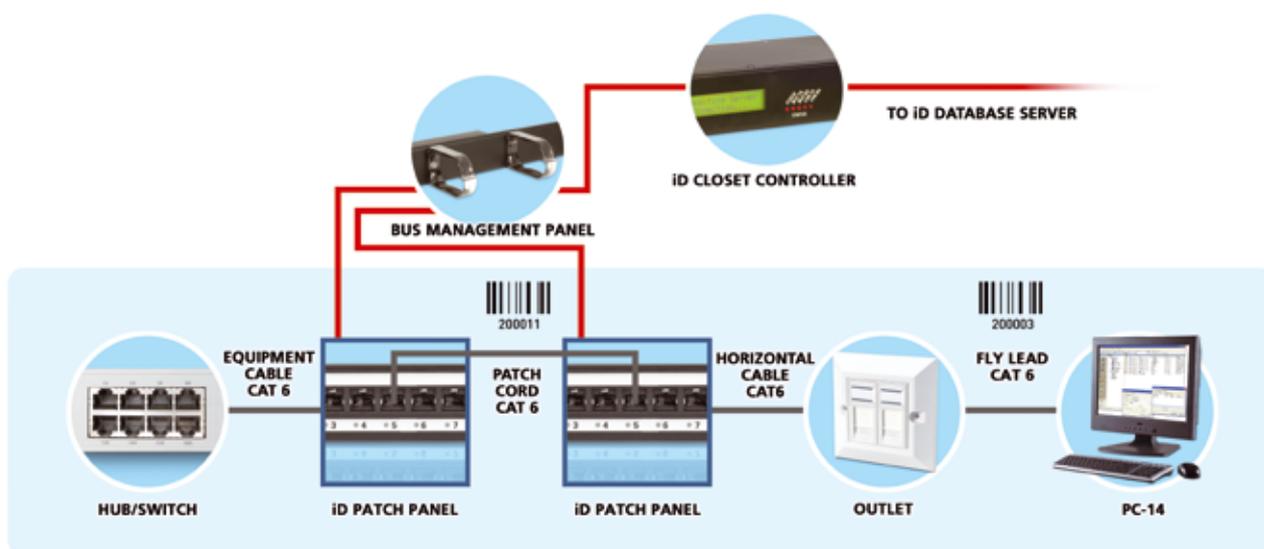
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## Comprehensive Solutions

- iD – Arguably the most intuitive, flexible, fully configurable, standards based portable software solution of its kind.
- iD Active – iD has now been coupled with intelligent microcontroller based patch panels and controllers, resulting in 100% connectivity accuracy!
- Embrace end- to-end visibility and control; track, alert and document enterprise networks in real-time. iD also allows easy management of moves, adds, changes and work orders.



## Key Features

- **Portable and easy to use**
- **Managing MAC's (Move's, Add's and Changes)**
  - Schedule work, delegate jobs, track status and manage time and resource effective - zero paperwork
- **Improved Network Availability**
  - Fault find, troubleshoot and resolve infrastructure issues more efficiently and effectively
- **Increased Network Security**
  - Track changes as they occur, configurable event driven alerts and control services, specifically for your infrastructure
- **Disaster Recovery**
  - Retain last known state of all connections, data and assets
- **Utilisation & Tracking of Assets**
  - Regardless of manufacturer, location or value
- **Auditing**
  - Simplified methods of verifying connection information and data documentation quickly

# Intelligent Infrastructure Management Solutions

Associated Products	Notes
	<p>The super compact (1U) closet controller monitors and administers all processes of the connected iD Active patch panels. Each closet controller is connected to the iD Server via a LAN and can manage up to 100 iD Active patch panels.</p>
	<p>The design of the iD Active patch panels have been based on the well established and proven Category 6 range of patch panels. The panel offers exceptional Cat6 performance within a high density format. Each patch panel is a modular unit; presenting 24 ports per 1U, with the 3 PCB's each offering 8 RJ45 ports.</p>
	<p>The Bus Management Module is used to distribute the communications bus to and from all iD Active patch panels and the respective Closet Controller. The Bus Management Module is located on the rear of a 1U cable management bar. Connectivity for up to 6 iD Active panels is achieved by simple shielded Cat5E cords and RJ45 jacks</p>
	<p>The CoolPort Bus Manager is used to distribute the communications bus to and from all iD Active patch panels and the respective Closet Controller. For very compact communication cabinets the CoolPort Bus Manager may be located anywhere inside the Rack and offers connectivity for up to 2 iD Active panels using simple shielded Cat5E patch cords and RJ45 jacks.</p>



# RapidNet - Copper

## The Easy "Point to Point" Solution

- Pre-terminated connections - saves time when installing and commissioning
- A choice of connections and configurations are available
- Designed for running through floor and ceiling access space directly to the desk or work station or cabinet to cabinet
- Available in 4 and 6 connection cassettes



Connections	Notes
	<b>PANEL TO PANEL</b> Cassette to cassette, is used most commonly to connect between cabinets, but is also used when connecting to a desk space where either more than two entry points are required, or where two desks are located together
	<b>PANEL TO WORKSTATION/CONSOLIDATION POINT</b> Cassette to floor box, a simple direct connection in floor boxes, where the pod can plug up directly into a standard opening, the shape of the pod has been made to enable easy pull through from communications panel to the desk location
	<b>CASSETTE TO EQUIPMENT</b> Cassette to plug or open ends, this can be used when connecting either into another panel or when there could be variable termination methods, such as jack connectors, telecoms or data

## Key Features

- Reduces installation time by up to 85%
- Available in 4 and 6 way cassette options
- Various connection methods
- Available as shielded or unshielded
- Cat5E and Cat6 versions
- Consolidation points for use under floor
- Pre-tested to globally approved test standards
- Looms up to 100 metres
- Ideal for cabinet to cabinet, under floor or ceiling space

# Pre-terminated Infrastructure Solutions

HellermannTyton's unique RapidNet cabling solution has been designed to maximise the concept of pre-termination by including both copper (UTP/FTP) and fibre media. Virtually every traditional cabling scenario can be provided from the RapidNet portfolio.

**Panel cassette to keystone jack**  
Staggered length option also available

**Terminated with RJ45 plugs**

**Panel cassette to panel cassette**  
Ideal for cabinet to cabinet installations

**Panel cassette to consolidation point**  
for work area flexibility

**Panel cassette to split pod**  
Staggered length option also available

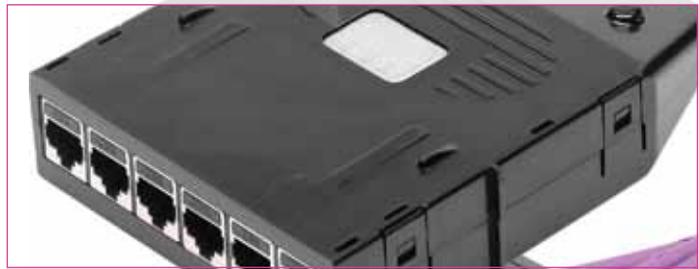


## Uncompromised support for 10G systems

HellermannTyton's new Deca<sup>10</sup> system offers both copper and fibre products to support your 10G installation; making it ideally suited to Data Centres, Server Farms, Storage Area Networks (SAN), High Performance Cluster (HPC) Networks and Work Station Environments (WSE).

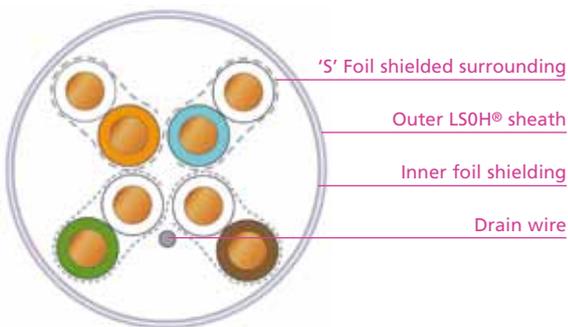
### Deca10 RapidNet Cassette

The Deca<sup>10</sup> RapidNet cassette is shielded and pre-terminated with 6 Deca<sup>10</sup> Keystone jacks earthed to a plate within the cassette. The earth plate in the cassette then makes contact with the earth points on the Deca<sup>10</sup> RapidNet panel. The Deca<sup>10</sup> cassette is manufactured with a simple push clip mechanism and polarising pips to prevent incorrect insertion.



### Cat6A System - Cable and Keystone

The Deca<sup>10</sup> system is backwards compatible with Cat6, Cat5E and Cat5, meaning that current hardware and extensions to existing cabling can continue to be utilised until it reaches its End of Service Life (ESOL).



The Deca<sup>10</sup> cable uses an 'S' Foil shielding system which insulates the pairs from each other. This provides 360° shielding and eliminates alien crosstalk.

The Deca<sup>10</sup> Keystone Jack has been uniquely designed adopting HellermannTyton's globally tried and tested 10-Pin Technology which has been designed to guarantee superior performance and connectivity.



### Key Features

- Full end to end Cat6A solution
- Delivers higher bandwidth and greater speed
- Higher performance with minimal crosstalk and interference
- Future proof network infrastructures
- Available in a traditional solution or as the RapidNet pre-terminated solution

## Simple Connectivity

- A choice of connections: SC, LC and MTP
- Up to 96 fibres in 1U space with LC connections
- Standard cassette to cassette or cassette to open options
- Available in OM1 (62.5/125), OM2 (50/125), OM3 Fibres and OS1 Fibres (OM3 required for 10G installations)



Connections	Notes
	<p><b>LC</b> Allows higher density mounting of connections (up to 96 within 1U height). High stability and repeatability.</p>
	<p><b>SC</b> Widely used and a favourite with installers because of the stability and reliability of connection.</p>
	<p><b>MTP/MPO</b> Fast connections, the latest addition to the range giving low insertion loss multiple fibre connections. Sold as a terminated cassette so the fibre lead can be plugged into the rear. Available in 6 DX LC or 12 DX LC connectivity.</p>

## Key Features

- Simple connectivity for infrastructure backbones
- A range of additional connectors, patch leads and pigtails available in the fibre band range
- A choice of standard fibres available (OM1, OM2, OM3 and OS1)
- Manufactured and tested to exceed applicable standards
- Looms can be ordered to length
- 25 year system warranty available
- Tight buffered cable used within looms as standard

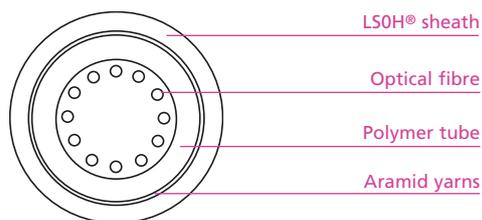
## FibreBand is HellermannTyton's range of stand-alone fibre optic products

- Ideal for simple backbone or point to point installations
- A broad range of products available from stock covering common applications
- Both loose tube and tight buffered cable with a choice of fibre density



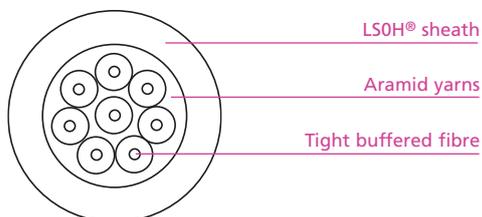
### Loose Tube Standard - Key Features

- A flexible cable where the fibre cores are protected from damage by polymeric tube construction
- LSOH sheath as standard aiding compliant to harmful emissions standards
- Particularly suited to horizontal applications such as building to building, cabinet to cabinet or where it is possible for channels or ducting to become flooded



### Tight Buffered - Key Features

- A flexible multistrand cable available with 4, 8, 12, 16 or 24 cores to best suit user requirements
- LSOH outer sheath as standard aiding compliance to harmful emissions standards
- Particularly suited to vertical installations such as risers and lift shafts as there will be no creepage within jacket and no looping is required



15 years component warranty - Up to 25 years warranty as part of an approved system

## As well as the range of bulk fibres we also offer panels and interconnects

*These high quality components help ensure the quality of your infrastructure.*

### Panels

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All panels are 'slide and tilt' in design, aiding installation by giving the maximum access possible. The panels are loaded to your requirements giving total flexibility to match the system requirements.



### Patch Leads, Pigtails and Connectors

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Patch leads and pigtails can have a choice of connections on the end and are available as single mode, OM1, OM2 or OM3. Every connection is tested after manufacture to check insertion and return loss.

All assemblies will be supplied with individual test results.

Pigtails have a connection on only one end, whereas patch leads have a connection on both.

A range of standard connectors are also available to allow the installer to terminate the fibres individually.



LC



MTP



SC



ST

# Infrastructure - Products

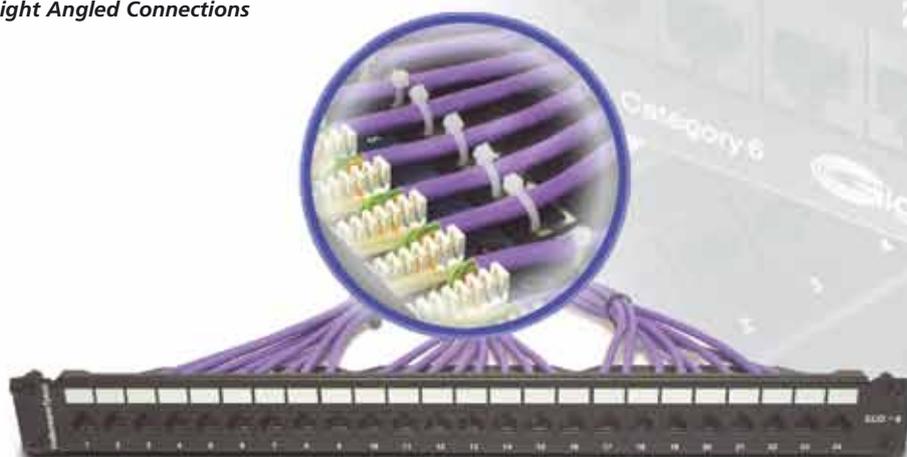
## Patch Panels

HellermannTyton offer a broad range of panels to suit your requirements. Available in 1U and 2U heights. Up to 48 ports in a 1U height. The latest addition (pictured below), is the ECO6 right angle panel which is proving popular due to the speed of installation with fast punchdown times possible.

The panels available support Cat5E, Cat6, and choice of connections such as IDC and 110.

Identification to both T568A and T568B means it is easy to follow current installation configuration when extending.

### Right Angled Connections



### Key Features

- Cat5E, Cat6 and Voice
- Shielded or unshielded
- Choice of connection blocks (110 or IDC terminals)
- Horizontal or vertical punchdown  
*All panels meet or exceed ISO/IEC, 1180/202, ANSII/TIA/EIA 568-B.2 and ANSII/TIA/EIA 568-B.2-1*
- Supports standard UTP/FTP/STP/SFTP cable
- Other options include single or dual labelling
- 110 or IDC terminals
- High or standard density configuration

### Brands

- AlphaSnap
- EcoBand
- GigaBand
- Global
- MegaBand

AlphaSnap

EcoBand

GigaBand

Global

MegaBand

## Outlets

HellermannTyton's comprehensive range of outlets is designed and manufactured to be the highest quality best performance and very flexible with ease of installation at the forefront of development. At the head of the range is the world renowned Alpha Snap which has been installed in some of the worlds most prestigious buildings and venues.

The HellermannTyton outlet range supports a wide variety of options including Cat5E, Cat6, Cat6A, 10 Gigabit and a broad range of voice options.

In support of the outlets range we also offer a good range of mounting boxes, face plates and blanking plates which are often the first or only indication of a connection point.



### Key Features

- A broad range of products to meet the system and customer requirements
- Attention to detail at the design stages ensures quality, performance and aesthetics to compliment any surrounding
- Wide choice of products to suit the environment and budget
- Complies or exceed all relevant standards



# Infrastructure - Products

## Cable and Patch Leads

### Cable

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Cable is an integral part of any good end to end infrastructure installation. HellermannTyton's range of high performance cable enables specifiers to select 'Low Smoke Zero Halogen' (LSOH/LSZH) or PVC sleeving in Category 5E, 6, 6A, 10 Gigabit Ethernet, UTP, FTP, SFTP variants. Our research team apply significant time to ensure all our cable meet or exceed the relevant standards.



### Patch Leads

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Quality patch leads help to ensure the integrity of a system making sure it meets or exceeds the often demanding specifications placed on the network. HellermannTyton's leads use the same quality of cable as that used in the point to point installation, helping to give that continuity in performance. The leads are available in the same options as the cable and have a choice of connectors to match the available outlets.



### Key Features

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- Cable available up to 500m drums or 305m boxes
- LSOH outer sheath
- All bulk cable is metre marked
- A choice of connections and lengths for Patch leads
- Standard cables for indoor use with outdoor cable available by request

## Category 3

(16 MHz - 100 Ohm UTP- To support applications up to 10 Mbps). Typically voice, ISDN, 4 Mbps Token Ring, and 10Base-T. Maximum suggested allowed untwisting of pairs = 3".

## Category 5E

100 MHz (1000Base-T & faster ATM). Maximum allowed untwisting of pairs < 1/2". This is an enhanced version of Category 5, with additional parameters specified to enable parallel transmission with full duplex across the four pairs. Enhanced Category 5 specifications for cable and connecting hardware products with transmission characteristics specified to 100 MHz, intended to support digital transmission of 1000 Mb/s.

## Category 6

For cable and connecting hardware products with transmission characteristics specified to 250 MHz, used to support digital transmission of 1 Gbp/s and above.

## Category 6A

Cable or connecting hardware products with transmission characteristics specified up to 500MHz. This is used to support digital transmission of 10Gbp/s and is to be implemented over RJ45 connecting hardware. Category 6A components have to have good isolation from Alien Crosstalk as this is a very important parameter in 10G transmission.

## Category 7

For cable and connecting hardware products with transmission characteristics specified to 600MHz. There are several different types of connectors that can be used with Category 7 - some are backwardly compatible with the RJ45 whilst others are not. This means that some Category 7 systems are not interoperable with others.

## Category 7A

Refers to a new standard for cable and connecting hardware products specified to 1000MHz. Similar to Category 7, this relies on a fully shielded system with

a different connector to the RJ45. This category is still in development so the full details need to be finalized.

## UTP (Unshielded Twisted Pair cable)

Normal copper building cable, capable of high-speed data transmission. Techniques exist to address the signal impairments due to the transmission characteristics of copper media and to limit the radiated emission of UTP media.

## Foil twisted pair cable (FTP)

A cable that use's a metallic Foil to surround the conductors in a Twisted Pair cable.

## Crosstalk

Noise or interference caused by electromagnetic coupling from one signal path to another. Crosstalk performance is generally expressed in decibels.

## IDC (Insulation Displacement Connector)

This is a blade style punch down you find on most Category connectors or the back block of a Category patch panels.

## Decibel (dB)

A dB is a unit of measure of signal strength, usually the relation between a transmitted signal and a standard signal source. Every 3 dB = 50% of signal strength, so therefore a 6 dB loss = a loss of 75% of total signal strength.

## Flood wiring

The concept of wiring for future growth, by providing full coverage of information outlets. Usually installed on a regular grid i.e. 3-metres by 3-metres.

## Consolidation point

An interconnection point in horizontal cabling, typically used to support the re-arrangement of furniture or partition walls. Generally used in open plan office environments.

## Return Loss

A measure of the similarity of the impedance of a transmission line and the impedance at its terminations. It is a ratio,

expressed in decibels, of the power of the outgoing signal to the power of the signal reflected back.

## Noise

The term used for spurious signals produced in a conductor by sources other than the transmitter to which it is connected. Noise can affect a legitimate signal to the extent that it is inaccurate or indecipherable when it reaches the receiver. The higher the speed of data transmission, the worse the effects of noise become.

## Singlemode - Fibre optic cable

This has a small core for the light path, very focused, high quality signal. Usually requires a laser source to launch light into the cable and usually makes it more expensive than LED sources used in Multimode fibre optic cable.

## Multimode fibre optic cable

Optical fibres that have a large core and is mostly used for communication over a short distance. Easier to splice than single mode fibre but it supports more than one propagation mode and therefore higher pulse spreading rates. 62.5 micron is the common standard core size for premises cabling systems.

## Standards

### Classification

Application classes for cabling have been identified for the purpose of the ISO/IEC 11801 standard;

- Class A: cabling is characterised up to 100 kHz
- Class B: cabling is characterised up to 1 MHz
- Class C: cabling is characterised up to 16 MHz
- Class D: cabling is characterised up to 100 MHz
- Class E: cabling is characterised up to 250 MHz
- Class EA: cabling is characterised up to 500 MHz
- Class F: cabling is characterised up to 600 MHz
- Class FA: cabling is characterised up to 1000 MHz

## EIA/TIA

North American Standards organisation.

## EIA/TIA 568B

North American commercial building telecommunications wiring standard.

## EIA/TIA 569A

North American commercial building standard for telecommunications pathways and spaces. Its purpose is to standardise specific design and construction practices within and between buildings which are in support of telecommunications media and equipment.

## EIA/TIA 606

North American administration standard for the telecommunications infrastructure of commercial buildings. Its purpose is to provide guidelines for a uniform administration scheme for the cabling infrastructure.

## EN 50173

The European standard for generic cabling for customer premises.

## EN 50174

The European cabling systems planning & installation standard developed by CENELEC.

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