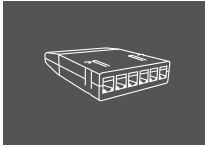# RapidNet Pre-terminated System

Better Technology Through Innovation

HellermannTyton

Introduction to RapidNet

What is RapidNet?

RapidNet is HellermannTyton's fully patented pre-terminated, pre-tested modular cabling system, eliminating the need for on-site terminations and reducing installation times significantly. All terminations are housed in the RapidNet cassette, ensuring complete protection and strain relief of the cables.

Manufactured at HellermannTyton's purpose built facility in Northampton, UK, RapidNet provides choice and flexibility to the installer and end user by offering an extensive range of connectivity options in both fibre and copper formats. All RapidNet formats are based on a common cassette delivering consistent performance, breadth of range and maximum flexibility.

RapidNet delivers a full end to end pre-terminated solution for any network application including data centres, comms rooms, commercial offices, call centres, hospital and educational environments.
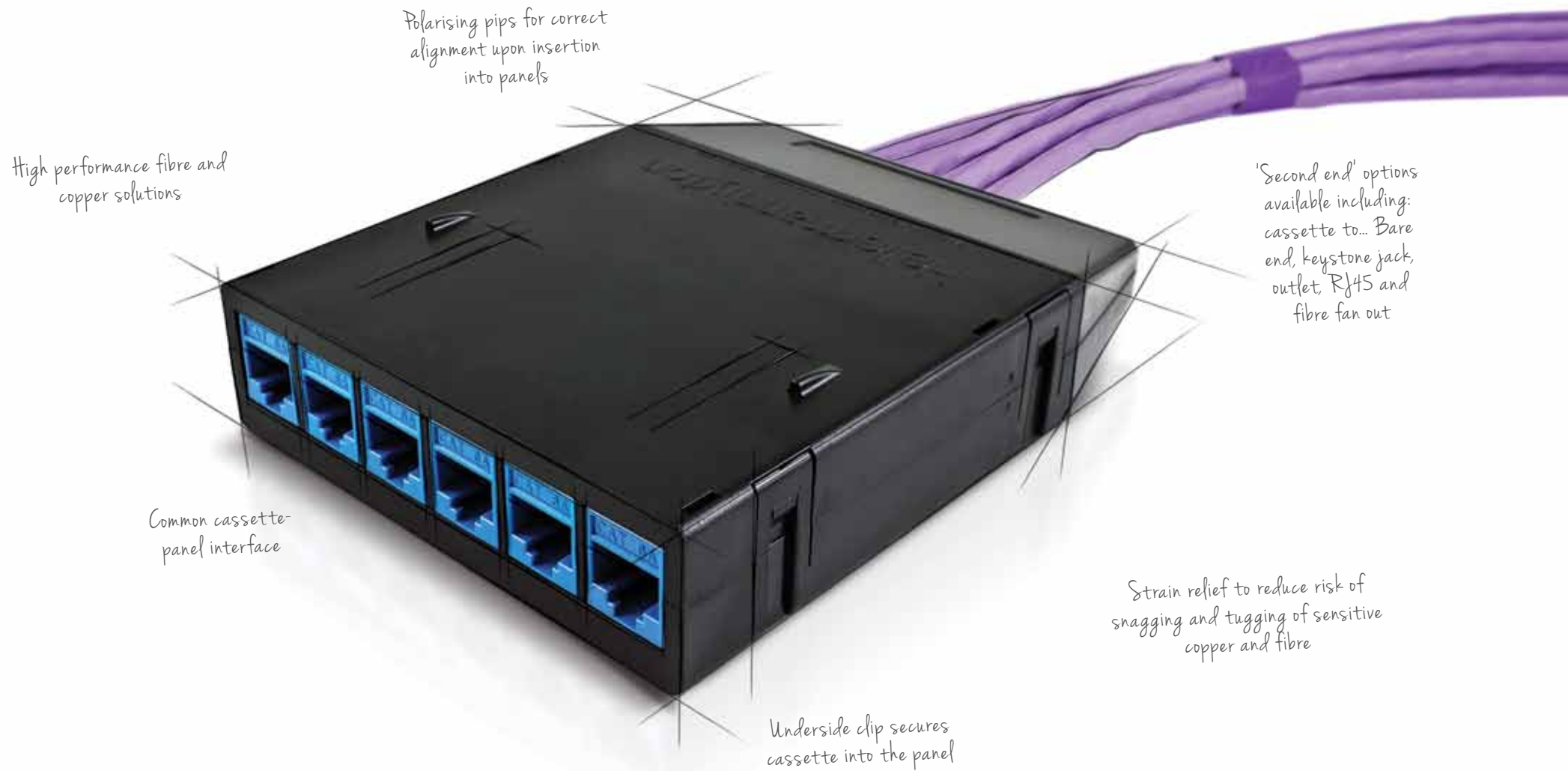
Why Choose RapidNet?

The RapidNet system offers many advantages over a standard site-terminated solution. It can reduce installation times by up to 95% and because it's pre-tested, minimal on-site testing is required once installed.

The pre-terminated solution delivers high performance across all formats including Category 6A, Category 6, Category 5e in copper and OM4, OM3, OS2 and OS1 in fibre. The Category 6A and fibre solutions will support high speed 10G networks and beyond. High port densities can be achieved using RapidNet fibre, with MTP connectors providing up to 144 fibres per cassette or up to 576 fibres in 1U of rack space.

RapidNet allows a greener approach to cabling infrastructure. With each RapidNet loom manufactured and supplied to pre-specified lengths, there is less on-site cabling and packaging waste. In addition, with RapidNet being manufactured in the UK, the environmental impact of shipping is greatly reduced.

The reduced installation times make RapidNet the ideal solution for 'business as usual' projects, time critical installations and in the event of disaster recovery where network down time needs to be kept to a minimum.

Polarising pips for correct
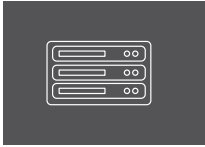alignment upon insertion
into panels

High performance fibre and
copper solutions

'Second end' options
available including:
cassette to... Bare
end, keystone jack,
outlet, RJ45 and
fibre fan out

Common cassette-
panel interface

Strain relief to reduce risk of
snagging and tugging of sensitive
copper and fibre

Underside clip secures
cassette into the panel

HellermannTyton

RapidNet in the Data Centre

As the demand for data centre capacity increases, so do the internal demands on the data centre. The data centre now faces a number of issues that impact it's success, profitability and operational effectiveness.

HellermannTyton understands these issues and, as a leading structured cabling manufacturer, has produced a range of pre-terminated products and solutions that help address them.

Data centre demands include:

- Data storage capacity

- Speed of return on investment

- Infrastructure performance

- On-site security

- Environmental impact

Space Efficiency

Space within a data centre now comes at a premium. It is important to use the available space as effectively and as efficiently as possible. The more space and connectivity that can be offered within any rack space is a benefit to both customer and data centre owner.

HellermannTyton offer a number of products that address the issue of space within a data centre. From the MTP VHD RapidNet fibre cassettes offering up to 144 fibres (up to 576 fibres in 1U) or the 12 port RapidNet cassette with 48 pre-terminated copper ports in 1U of rack space.

Reduce Installation Times

Speed of installation is often one of the most important factors for a data centre owner or manager. The quicker the infrastructure is up and running, the quicker the data centre is ready for use by its parent company or available to be sold as a data storage facility to a client.

By choosing a pre-terminated RapidNet system, it is possible to reduce installation times by up to 85% with copper and 95% with fibre compared to traditional field terminated systems.

Performance

The Category 6A RapidNet solutions deliver support for high speed 10G networks and applications. The RapidNet MTP VHD fibre range can support networks and applications up to 40G and 100G, making it an ideal high performance solution for data centres.

On-site Security

In addition to the reduced installation times seen with the RapidNet system, data centres will also benefit from minimised security risks as fewer engineers are required on site for reduced periods of time.
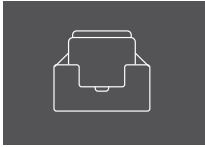
Environmental Impact

The HellermannTyton RapidNet solution carries it's very own environmental credentials as a pre-terminated system.

At the factory, each cable is pre-terminated and cut to its specified length, minimising bulk cable waste. On-site, RapidNet is ready to be installed and can be supplied on re-usable plastic drums resulting in minimal packaging waste. RapidNet is manufactured in the UK and therefore has shorter logistics paths resulting in a reduced carbon footprint and less environmental impact.

HellermannTyton

RapidNet in the Work Area

RapidNet provides an equally effective solution to the work area. With an extensive range of 'second end' options, RapidNet offers flexibility and choice within any commercial office, trading floor, call centre or educational environment.

Using the 6 port RapidNet cassette, HellermannTyton can offer an end to end Category 6A, Category 6 or Category 5e system. Also available is the 4 port RapidNet cassette solution available in both Category 6 and Category 5e.

The 'second end' is key to how RapidNet can be adopted into the work area. With 'to the desk' and 'to the wall' options, RapidNet can be manufactured to specific requirements with pods, GOP boxes, terminated to outlets or terminated to jacks; compatible with a range of HellermannTyton outlets and face plates.

RapidNet can also be supplied with a bare end which is ideal for installations where cable run space is limited.

The 4 port cassette has been designed for the office and call centre environment. With all the benefits of the 'second end' options above, the 4 port solution provides 2 outlet connections to each pair of desks, providing quick and simple port identification and network management.

Speed of Installation
Using RapidNet in the work place can help significantly reduce installation times. With cable measured, cut and terminated to pre-planned lengths, office network infrastructure can be installed quickly and efficiently.

Flexible and Reconfigurable
The RapidNet Pods or GOP boxes can be used as consolidation points around the office. With the added flexibility of being able to position them anywhere in the floor within a 3m radius, using the consolidation point approach allows for future desk additions or moves in the work area.

Risk Reduction
For projects with time sensitive deadlines, using RapidNet in the work area can contribute to meeting completion dates on time. As a result of the reduced installation time required, RapidNet can be installed at a late stage, even when a project is under time pressures, ensuring that an office is ready for business when it's needed.
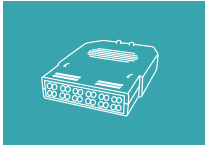
Aesthetically Pleasing
The RapidNet Pod has been designed to compliment its surrounding office furniture. With its smooth round edges and white finish, the RapidNet Pod delivers on looks, flexibility and performance.

Cassette to Jack or Outlet

Cassette to POD

Cassette to GOP

HellermannTyton

Fibre

The extensive RapidNet fibre range from HellermannTyton has developed with the increasing demands of high performance, high speed networks and data centres. Available in OM4, OM3, OS2 and OS1, RapidNet fibre provides a number of connectivity options, including MTP, LC and SC cassettes.

Cassette Options

LC and SC Cassettes

The LC cassettes are available in standard and Keyed formats.

The standard RapidNet LC and SC cassettes offer a range of options including single mode or multimode, 12 or 24 ports in LC and 6 or 12 ports in SC formats.

The cassettes also provide 2 options for the rear of the cassette; a terminated cable with a strain relieving boot or with MTP connectors, to allow the use of 12 or 24 core MTP backbone cables.

Keyed LC Cassettes

The Keyed solution offers all the benefits of the standard LC RapidNet but uses different coloured connectors and adapters.

Each colour connector has its own unique mechanical key, enabling the segregation or identification of paths within the network infrastructure.

The use of Keyed RapidNet can help reduce the risk of accidental or malicious network access.

MTP VHD Cassettes

MTP VHD RapidNet is available with either 6 or 12 MTP ports presented on the front of the cassette.

The MTP connector can be supplied as either 12 or 24 core, with 6 x 24 core connectors or 12 x 12 core connectors, enabling a maximum of 144 fibres in a single cassette, or 576 fibres in a 1U RapidNet panel.

24 Port LC Cassette

24 Port Keyed LC Cassette

12 Port MTP VHD Cassette

RapidNet Fibre Adapter Mounting Module

The RapidNet Fibre Adapter Mounting Module has been designed to enable the use of RapidNet fibre in applications with limited access between rooms or halls or in containment and pathways. The module is supplied pre-loaded with MTP, LC or SC adapters which allow fibre fan outs to be presented in the RapidNet panels.

HellermannTyton

Provided with rubber boot
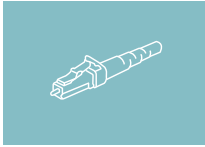for strain relief or with
MTP rear connectors

Available in
OM4, OM3, OS2 and OS1

Variety of 'second
end' options

Available as MTP VHD,
LC, SC and Keyed LC

Standard cassette
footprint fits in a range
of RapidNet panels

HellermannTyton

Fibre 'Second End'

All RapidNet fibre cassettes are manufactured with LS0H cable which is secured in the cassette with internal strain relief and a rubber boot, preventing damage to the fibre when pulled or snagged.

RapidNet cassettes can also be supplied with MTP connectors on the rear. For these RapidNet cassettes HellermannTyton supply a range of MTP backbone cables as well as MTP to fan out assemblies in both LC and SC formats.

The RapidNet fibre range can be manufactured with a pre-terminated fibre fan out on the 'second end' of the cassette. Using a protective manifold, HellermannTyton are able to supply the RapidNet cassette to fibre fan out assemblies with MTP, LC and SC connectors, allowing for high density patching or inter-connectivity with active hardware.

'Second End' Options

Cassette to MTP Backbone
The MTP backbone cable can be either terminated within the cassette or supplied with an MTP connector that pushes onto a cassette with rear MTP connectivity.

The MTP back bone cable is manufactured with up to 24 fibres per cable and, with a smaller more flexible cable diameter, is ideal for high density installations or installations with limited cable run space.

Cassette to MTP Fan Out
The Cassette to MTP fan out presents either 6 x 24 core MTP connectors or 12 x 12 core MTP connectors in the front of the cassette, terminated to a 144 core fibre cable.

The fibre cable is separated out in a high quality manifold connecting to an MTP fan out to correspond with the cassette presentation of 6 or 12 MTP connectors.

Cassette to LC Fan Out
The RapidNet cassette to LC fan out offers a number of options. Using the 6 x 12 port MTP cassette, it is possible to achieve a 72 LC fan out.

Using the LC cassette with 12 or 24 LC connectors, a 12 or 24 LC fan out can be supplied, either terminated within the cassette or as an MTP connector to fan out with the MTP fitting to the rear MTP port on the cassette.

1 Rear MTP Connector

MTP 6 Core Cassette to MTP Fan Out

LC 12 Core Cassette to LC Fan Out

2 Rear MTP Connectors

MTP 12 Core Cassette to MTP Fan Out

LC 24 Core Cassette to SC Fan Out

HellermannTyton

htdata.co.uk

High quality metal
manifold

Fan outs available in MTP,
LC or SC connector options

Fan outs available in
various lengths

HellermannTyton

Copper

RapidNet copper solutions offer the installer or end user a great deal of choice and flexibility at both the cassette end and the 'second end'.

Cassette Options

6 Port Cassette

The 6 port RapidNet cassette comes in a standard format with 4 cassettes fitting into the RapidNet panel. The standard panel accommodates all UTP Category 6A, Category 6 and Category 5e cassettes with a separate panel available for the 6 port shielded solutions.

Both UTP and FTP Category 6A solutions exceed industry standards performance criteria to support a 10G network. The UTP Category 6A system is available in a range of different coloured jack variations as standard, allowing for network segregation.

4 Port Cassette

Available in Category 6 and Category 5e, the 4 port cassette comes with its own RapidNet panel providing 24 ports in 1U of space.

The 4 port cassette provides an ideal solution for work area and 'to the desk' applications in most commercial office and educational environments.

12 Port Cassette

The 12 port cassette is RapidNet's high density solution, presenting 48 ports in 1U of rack space.

Available in both Category 6 and Category 5e, the 12 port cassette provides an 'on-board' magnified port labelling field and comes with its own RapidNet panel to accommodate the larger cassette footprint.

The 12 port cassette is also compatible with the Hybrid RapidNet panel, providing a combination of copper and fibre connectivity in 1U of space.

6 Port Category 6A UTP in Black

4 Port Category 6

12 Port Category 6

6 Port Category 6A UTP in Blue

Deca¹⁰ 6 Port Category 6A FTP

6 Port Category 6

Short Body RapidNet

The Short Body RapidNet cassette has been specifically designed to be used with the angled RapidNet panel but is also fully compatible with other standard RapidNet panels and accessories. The Short Body RapidNet range is available in Category 6A, Category 6 and Category 5e, providing 6 RJ45 ports per cassette or 24 ports in 1U.

The ports are available in a choice of colours which can help define network features such as routes, services, hierarchies or security levels; in addition the colours can be used to define connections within a shared space such as in co-location data centres.

HellermannTyton

Category 6A, category 6
and category 5e solutions

Internal strain relief

Variety of 'second
end options

Available as 12 port,
6 port or 4 port cassettes

Pre-tested with test
results provided

| 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 |

Copper 'Second End'

While a RapidNet cassette to cassette assembly is most commonly used in cabinet to cabinet and data centre applications, the RapidNet range offers additional flexibility with a host of other 'second end' possibilities.

'Second End' Options

Cassette to Jack
The cassette to jack is designed for work area applications where the jacks can be easily fitted into a selection of modules that can be used in floor boxes or wall mounted in face plates.

The Category 6A GST UTP keystone jacks are available in several standard colours with the same colour jack being used at the cassette end. This allows for differentiation of looms at the patch panel aiding identification of access levels, paths, routes or systems within the network.

Cassette to Outlet
The cassette to outlet option provides an ideal work area solution with outlets pre-terminated to the cable loom.

Available in a range of Category 6 and Category 5e outlets from HellermannTyton, the outlets can then be snapped into double or single gang face plates or directly into a floor box.

Cassette to Pod
The cassette to pod option supports 'to the desk' and work area installations in a variety of commercial environments including offices, trading floors and schools.

The pod can be mounted to the desk, snapped into a floor box or used beneath a raised floor or in the ceiling void as a consolidation point.

Cassette to GOP
The cassette to GOP box (Grid Outlet Position) is designed for use in the work area where a grid style network is employed.

The GOP box can be run from cabling infrastructure, usually under a raised floor, to the desk where it can be mounted or hosted within a floor box.

Cassette to RJ45
The cassette to RJ45 plug fan out can be used as a full cross-connect solution between cabinet and hardware, reducing the risk of damage to the ports on expensive active equipment.
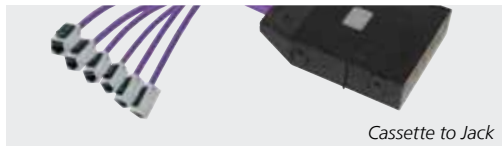
When used for server connectivity it simplifies the management of connections to each unit without accessing the rear of the data cabinets.

The 6 RJ45 plugs are manufactured to a uniform length or can be supplied in staggered lengths to allow for effective cable management.

Cassette to Bare End
The cassette to bare end provides flexibility during installation. This option is used in projects where space between rooms is limited or lengths are uncertain at the planning stage.

The bare end can then be terminated on site to a range of outlets and panels available from HellermannTyton.

Cassette to Jack

Cassette to Pod

Cassette to RJ45

Cassette to Outlet

Cassette to GOP

Cassette to Bare End

Hellermann Tyton

Multiple label fields for
user identification

Round edges alleviate
the risk of snagging

Fits standard floor
boxes

Internal strain
relief

Factory pre-terminated
and tested

POD and GOP solutions
ideal for areas with
multiple work stations

HellermannTyton

CATEGORY 6

CATEGORY 6

Panels

The range of RapidNet panels has been designed to support the breadth of fibre and copper cassettes, ensuring quick and easy installation into any 19" racks, cabinets or patching frames.

All RapidNet panels provide magnified labelling fields, delivering excellent port identification. The 12 port RapidNet solution provides port labelling fields on the cassette itself.

The RapidNet cassettes snap into the panels and are secured using the push clip. Polarising pips on the cassette ensure insertion is correct.

Each panel is supplied with Rack Snaps as standard or alternatively with cage nuts. Rack Snaps enable the panels to be installed quickly into the rack and cabinets.

Range of Panels

Standard RapidNet Panel
This RapidNet panel accepts all standard copper and fibre RapidNet cassettes. The panel accepts all fibre cassettes and standard UTP copper cassettes as well as the Short Body cassette and Fibre Adapter Mounting Module. Available in 1U or 2U options, the standard RapidNet panel can accommodate 4 or 8 cassettes respectively.

Hybrid Panel
The RapidNet Hybrid panel provides a mix and match approach for both fibre and 12 port copper cassettes in 1U of rack space.

Shielded RapidNet Panel
The Shielded RapidNet panel has been designed specifically for the Category 6A shielded solution and is manufactured with a metal shielding plate with 3 earthing anchor points. The cassette is earthed on installation with no additional connections required.

12 Port RapidNet Panel
The 12 port panel holds four Category 6 or Category 5e 12 port cassettes offering a maximum of 48 RJ45 ports per 1U.

4 Port RapidNet Panel
This panel accommodates six 4 port Category 6 or Category 5e copper cassettes.

RapidNet Angled Panel
Using the short body RapidNet cassette with the angled panel offers a high density solution as it removes the need for horizontal patch cord management, increasing capacity within the rack or frame by up to 50% when compared to traditional cable management methods.

Available in 1U and 2U options, the angled panel also helps to reduce the bend radius for both front patch cords and rear permanent link cables.

Rear Cable Management Panel
This panel provides rear cable management support and protection for MTP backbone and fibre cables within the cabinet or patching frame. The panel uses standard RapidNet fittings enabling unshielded 6 port copper cassettes to be installed if required.

HellermannTyton

RapidNet angled panel solution available in 1U and 2U options

Supplied with Rack Snaps as standard

Central labelling field

Dual magnified labelling fields
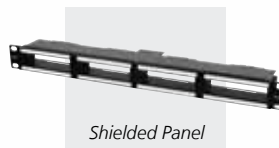
HellermannTyton

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
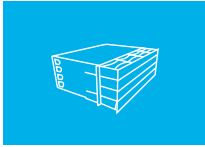
Standard Panel

Hybrid Panel

Shielded Panel

12 Port Panel

4 Port Panel

Rear Cable Management Panel

Distribution Chassis

HellermannTyton's 4U Distribution Chassis is designed for use with the industry leading RapidNet pre-terminated system where high density patching is required together with class leading patch cord management.

The Chassis enables patch cords to be hidden from view and, with its high quality design and finish, enhances the visual presentation of a high performance data centre.

From standard density 384 fibre LC connections to high density 2,304 fibre MTP connections in each 4U of rack space, a range of different density requirements is catered for, no matter its location. The chassis can also accommodate 96 UTP copper ports.

The RapidNet Distribution Chassis has applications in the Core, Horizontal, Equipment and Intermediate zones within a data centre as well as single rack applications within SME communication rooms.

Increase Space Utilisation
Combining the patching area with the front cable management into a single self-contained 1U of rack space saves valuable room within the racks or cabinets which in turn allows for higher density patching or for installing more active equipment within the same cabinet. This can be particularly valuable in applications such as Storage Area Networks and high density Virtualised Server Clusters.

The Distribution Chassis is designed to help maximise the return on valuable U space whilst maintaining good access to connectors even when fully loaded, a real advantage when undertaking Moves, Adds & Changes (MACs). Use of tabbed LC and MTP patch cords from HellermannTyton can assist with the ease of undertaking MACs in high density patching environments.
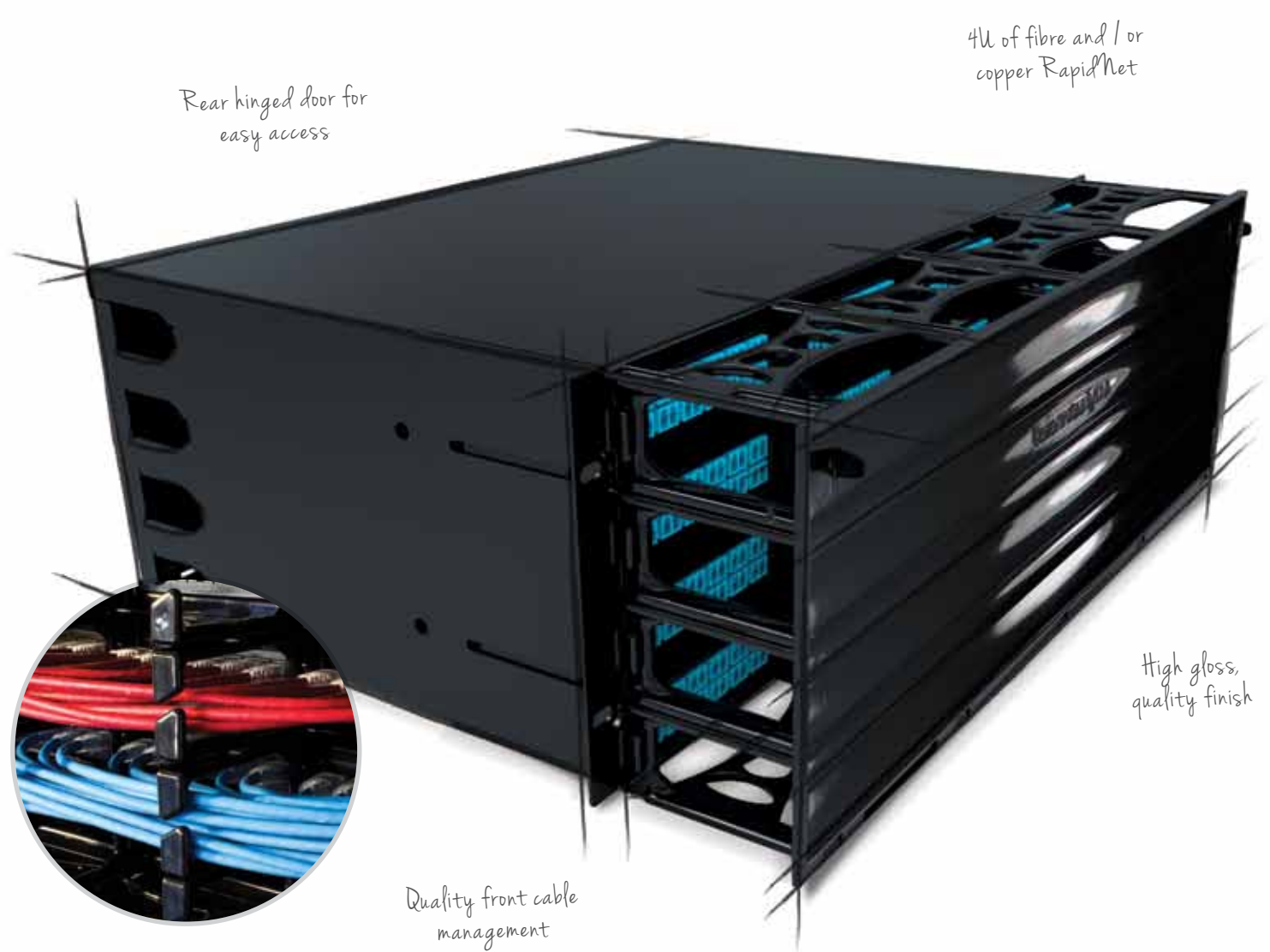
Facilitates Pre-termination
For both in-house and third party data centres, speed of deployment can be critical to the success of a project. The use of RapidNet in combination with the 4U Distribution Chassis provides the reduced installation time of the industry leading cassette based pre-terminated solution together with the simplified layout planning facilitated by the Distribution Chassis - equal length looms reduce the risks of over length cables.

Features and Benefits

The RapidNet Distribution Chassis has a number of features designed to aid the deployment of RapidNet within the infrastructure:

- Front cable management across the horizontal space means patch leads are well supported before entering the vertical cable managers of the rack or cabinet

- The front of the panel has a hinged door that prevents accidental damage to patch leads whilst maintaining tidiness of the patching field

- Good rear access with 8 cable entry points capable of taking compression glands and also 8 anchoring points for providing strain relief directly to the cables

- A rear hinged door helps to keep the trunk cable area neat and prevents accidental snagging

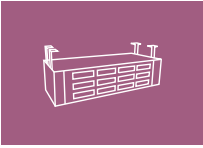- Extensive labelling fields, both front and rear, to aid port identification and ease of use

HellermannTyton

4U of fibre and / or
copper RapidNet

Rear hinged door for
easy access

High gloss,
quality finish

Quality front cable
management

HellermannTyton

Out of Rack

The Out of Rack solution from HellermannTyton helps address many of the challenges faced by the ever increasing demands on today's data centres – reducing set up and operating costs, increasing flexibility and providing a pathway for future technology as bandwidth requirements increase.

Moving the connectivity and interconnect equipment out of the racks or cabinets, frees additional U space which can then be used to increase server counts per rack, maximising the return on valuable data centre space.

Configurations

The Out of Rack solution is available in 3 configurations, each one compatible with the RapidNet solution.

3U RapidNet
3U of RapidNet ready space for up to 12 RapidNet cassettes.

2U RapidNet
1U of 19" rackspace (eg: for a rack level switch) with 2U of RapidNet ready cassette space.

3U Rackspace
3U of standard 19" space with Rack Snap/cage nut mounting locations.

All three options include 2 x Zero U RapidNet cassette locations within the Out of Rack solution.

Features and Benefits

- 600mm width for the narrowest server rack
- Adjustable vertical height
- Single person overhead installation
- Fits any 50mm pitch basket tray
- Vertical cable management into the rack or cabinet
- RapidNet mesh clips for simple cable management
- Multiple fixing points for 25mm conduit cable management
- Cable anchoring points
- Grounding studs for earth bonding
- Maximum capacity of 156 copper ports or 2,016 fibres using RapidNet MTP VHD
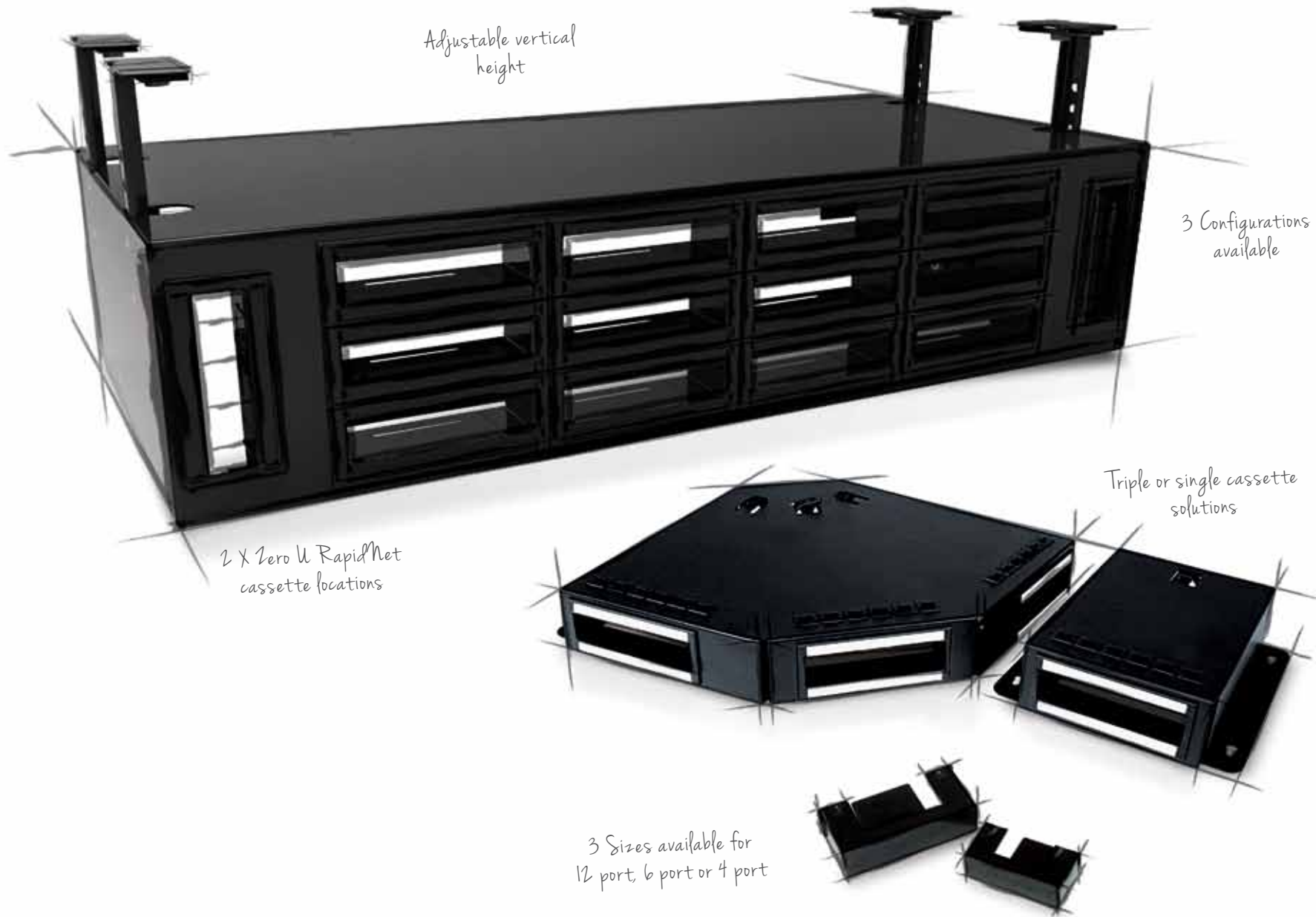
Accessories

RapidNet Blanks
RapidNet Blanks are designed to fill partially loaded RapidNet panels to help maintain consistent airflow and reduce the buildup of dust within the rack. Blanks are available in three size options including the 12 port cassette, 6 port cassette and 4 port cassette sizes.

RapidNet Floor Boxes
The RapidNet floor box is designed to house the RapidNet cassette away from the comms cabinet and provides a good alternative work area or 'to the desk' solution. The floor box is available in both triple and single cassette versions.

HellermannTyton

Adjustable vertical
height

3 Configurations
available

2 X Zero U RapidNet
cassette locations

Triple or single cassette
solutions

3 Sizes available for
12 port, 6 port or 4 port

HellermannTyton

Why Choose HellermannTyton?

HellermannTyton 25 Year System Warranty

HellermannTyton has been designing, manufacturing and supplying copper and fibre structured cabling solutions for over 25 years.

Overview

As part of HellermannTyton Group PLC, a global business listed on the London Stock Exchange, the HellermannTyton Network Sciences 25 year system warranty is backed by a company with significant financial strength and longevity. With a history of serving industrial markets around the world for over 75 years, end user customers can have confidence in HellermannTyton's warranty throughout the lifetime of the installation.

The HellermannTyton Network Sciences 25 year system warranty is a direct relationship between the manufacturer and end user providing on-going confidence of copper and fibre link infrastructure performance. The warranty assures that the network will continue to operate, be compliant with cabling standards and support applications and protocols that have been designed and tested to operate with the appropriate cabling specification.

How it works

The HellermannTyton Network Sciences warranty is available for any network installation that uses exclusively HellermannTyton products throughout and has been installed by a HellermannTyton Network Sciences approved installer.

All Network Sciences approved installers are trained and certified at HellermannTyton's Northampton manufacturing facility to ensure they are familiar with HellermannTyton installation guidelines and best practice techniques.

The HellermannTyton Network Sciences warranty covers all HellermannTyton copper and fibre cable, connectivity and patch cords used within the structured cabling system and for which test results have been provided.

Factory Testing

100% performance testing of all pre-terminated product is carried out at our Northampton manufacturing facility prior to the finished goods being released from Quality Control.

- Copper Category 6 and Category 5e RapidNet performance testing is carried out in line with the ISO 11801 and ANSI/TIA/EIA 568-C standard

- Copper Category 6A RapidNet meets the requirements of the TIA Category 6A standard, ANSI/TIA-568-C, and the more demanding ISO/IEC Class E_A standard, ISO/IEC 11801

- Fibre RapidNet performance testing is carried out in line with the ISO 11801 and ANSI/TIA/EIA568-C standard

bsi.

ISO 9001 Quality Management

ISO 14001 Environmental Management

FM 34289   EMS 504454

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HellermannTyton 25 Year System Warranty
Terms and Conditions

HellermannTyton

Europe

HellermannTyton GmbH - Austria
Rennbahnweg 65
1220 Vienna
Tel: +43 12 59 99 55-0
Fax: +43 12 59 99 11
E-Mail: office@HellermannTyton.at
www.HellermannTyton.at

**HellermannTyton –
Czech Republic**
E-Mail: officeCZ@HellermannTyton.at
www.HellermannTyton.cz

HellermannTyton – Denmark
Baldersbuen 15D 1. TV
2640 Hedehusene
Tel: +45 702 371 20
Fax: +45 702 371 21
E-Mail: htdk@HellermannTyton.dk
www.HellermannTyton.dk

HellermannTyton – Finland
Sähkötie 8
01510 Vantaa
Tel: +358 9 8700 450
Fax: +358 9 8700 4520
E-Mail: myynti@HellermannTyton.fi
www.HellermannTyton.fi

HellermannTyton S.A.S. – France
2 rue des Hêtres, B.P. 130
78196 Trappes Cedex
Tel: +33 1 30 13 80 00
Fax: +33 1 30 13 80 60
E-Mail: info@HellermannTyton.fr
www.HellermannTyton.fr

**HellermannTyton GmbH –
Germany**
Großer Moorweg 45
25436 Tornesch
Tel: +49 4122 701-0
Fax: +49 4122 701-400
E-Mail: info@HellermannTyton.de
www.HellermannTyton.de

HellermannTyton KFT – Hungary
Kisfaludy u. 13
1044 Budapest
Tel: +36 1 369 4151
Fax: +36 1 369 4151
E-Mail: officeHU@HellermannTyton.at
www.HellermannTyton.hu

HellermannTyton S.r.l. – Italy
Via Prambole 9 Bis
35010 Limena (PD)
Tel: +39 049 767 870
Fax: +39 049 767 985
E-Mail: info@HellermannTyton.it
www.HellermannTyton.it

HellermannTyton Ltd – Ireland
Unit 77 Cherry Orchard
Industrial Estate
Ballyfermot, Dublin 10
Tel: +353 1 626 8267
Fax: +353 1 626 8022
E-Mail: sales@HellermannTyton.ie
www.HellermannTyton.co.uk

**HellermannTyton B.V. –
Belgium/Netherlands**
Vanadiumweg 11-C
3812 PX Amersfoort
Tel: +31 (0) 33 460 06 90
Fax: +31 (0) 33 460 06 99
E-Mail (NL): info@HellermannTyton.nl
E-Mail (BE): info@HellermannTyton.be
www.HellermannTyton.nl
www.HellermannTyton.be

HellermannTyton AS – Norway
PO Box 240 Alnabru
0614 Oslo
Tel: +47 23 17 47 00
Fax: +47 22 97 09 70
E-Mail: firmapost@HellermannTyton.no
www.HellermannTyton.no

HellermannTyton – Poland
E-Mail: info@HellermannTyton.pl
www.HellermannTyton.pl

HellermannTyton – Romania
E-Mail: officeRO@HellermannTyton.at
www.HellermannTyton.at

OOO HellermannTyton – Russia
40/4, Pulkovskoe road,
BC Technopolis Pulkovo, office A 8081
196158, St. Petersburg
Tel: +7 812 366 00 09
Fax: +7 812 386 00 08
E-Mail: info@HellermannTyton.ru
www.HellermannTyton.ru

HellermannTyton – Slovenia
Branch Office Ljubljana
Podružnica Ljubljana, Leskoškova 6
1000 Ljubljana
Tel: +386 1 433 70 56
Fax: +386 1 433 63 21
E-Mail: officeSI@HellermannTyton.at
www.HellermannTyton.si

**HellermannTyton España s.L. –
Spain/Portugal**
Avda. de la Industria nº 37, 2º 2ª
28.108 Alcobendas, Madrid
Tel: +34 91 661 2835
Fax: +34 91 661 2368
E-Mail:
HellermannTyton@HellermannTyton.es
www.HellermannTyton.es

HellermannTyton AB – Sweden
Datavägen 5, PO Box 569
17526 Järfälla
Tel: +46 8 580 890 00
Fax: +46 8 580 890 01
E-Mail: support@HellermannTyton.se
www.HellermannTyton.se

HellermannTyton Ltd – UK
William Prance Road
Plymouth International Medical
and Technology Park
Plymouth
Devon
PL6 5WR
Tel: +44 (0) 1752 701 261
Fax: +44 (0) 1752 790 058
E-Mail: info@HellermannTyton.co.uk
www.HellermannTyton.co.uk

HellermannTyton Ltd – UK
Sharston Green Business Park
1 Robeson Way
Altrincham Road, Wythenshawe
Manchester M22 4TY
Tel: +44 161 947 2200
Fax: +44 161 947 2220
E-Mail: sales@HellermannTyton.co.uk
www.HellermannTyton.co.uk

HellermannTyton Ltd – UK
Main Contact for Customer Service
Wharf Approach
Aldridge, Walsall, West Midlands
WS9 8BX
Tel: +44 1922 458 151
Fax: +44 1922 743 237
E-Mail: info@HellermannTyton.co.uk
www.HellermannTyton.co.uk

HellermannTyton Data Ltd – UK
Cornwell Business Park
43 - 45 Salthouse Road, Brackmills
Northampton NN4 7EX
Tel: +44 1604 707 420
Fax: +44 1604 705 454
E-Mail: sales@htdata.co.uk
www.htdata.co.uk

South America

HellermannTyton – Argentina
Tel: +54 11 4754 5400
Fax: +54 11 4752 0374
E-Mail: ventas@HellermannTyton.com.ar
www.HellermannTyton.com.ar

HellermannTyton – Brazil
Tel: +55 11 4815 9000
Fax: +55 11 4815 9030
E-Mail: vendas@HellermannTyton.com.br
www.HellermannTyton.com.br

Asia-Pacific

HellermannTyton – Australia
Tel: +612 9525 2133
Fax: +612 9526 2495
E-Mail:
cservice@HellermannTyton.com.au
www.HellermannTyton.com.au

HellermannTyton – China
Tel: +86 510 8528 2536
Fax: +86 510 8528 2731
E-Mail:
cservice@HellermannTyton.com.cn
www.HellermannTyton.com.cn

HellermannTyton – Hong Kong
Tel: +852 2831 9090
Fax: +852 2832 9381
E-Mail:
cservice@HellermannTyton.com.hk
www.HellermannTyton.com.sg

HellermannTyton – India
Agra: +91 120 413 3384
Bangalore: +91 776 001 0104
Chennai: +91 996 264 3939
Faridabad: +91 971 851 7797
Ghaziabad: +91 93 1354-1671
Pune: +91 727 601 2200
E-Mail: cservice@HellermannTyton.co.in
www.HellermannTyton.co.in

North America

HellermannTyton – Canada
Tel: +1 905 726 1221
Fax: +1 905 726 8538
E-Mail: sales@HellermannTyton.ca
www.HellermannTyton.ca

HellermannTyton – Mexico
Tel: +52 333 133 9880
Fax: +52 333 133 9881
E-Mail: info@HellermannTyton.com.mx
www.HellermannTyton.com

HellermannTyton – USA
Tel: +1 414 355 1130
Fax: +1 414 355 7341
E-Mail: corp@htamericas.com
www.HellermannTyton.com

HellermannTyton – Japan
Tel: +81 3 5790 3111
Fax: +81 3 5790 3112
E-Mail: cservice@HellermannTyton.co.jp
www.HellermannTyton.co.jp

HellermannTyton – Korea
Tel: +82 31 388 8012
Fax: +82 31 388 8013
E-Mail: cservice@HellermannTyton.co.kr
www.hellermanntyton.co.kr

HellermannTyton – Philippines
Tel: +632 752 6551
Fax: +632 752 6553
E-Mail: cservice@HellermannTyton.com.ph
www.HellermannTyton.com.ph

HellermannTyton – Singapore
Tel: +65 6852 8585
Fax: +65 6756 6798
E-Mail: cservice@HellermannTyton.sg
www.HellermannTyton.com.sg

HellermannTyton – Thailand
Tel: +662 237 6702 / 266 0624
Fax: +662 266 8664
E-Mail: cservice@HellermannTyton.co.th
www.HellermannTyton.com.sg

Africa

HellermannTyton – South Africa
Tel: +27 11 879 6680
Fax: +27 11 879 6601
E-Mail: sales.jhb@Hellermann.co.za
www.HellermannTyton.co.za

HellermannTyton

HellermannTyton Data Ltd, Cornwell Business Park, Salthouse Road, Brackmills, Northampton, NN4 7EX, United Kingdom

Tel: +44 (0) 1604 707420 Fax: +44 (0) 1604 705454 www.htdata.co.uk