2014 / 2015

Broadband Connectivity Catalogue

Better Technology through Innovation

HellermannTyton

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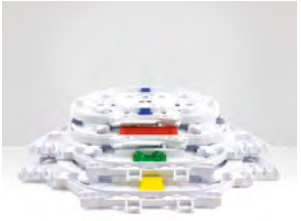

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Delivering fibre management solutions

HellermannTyton Broadband Systems – At the leading edge of Fibre Management

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

HellermannTyton's Broadband Systems comprise a unique range of fibre splicing closures for the external and internal plant that you would find in any typical FTTX application.

The sealed closures from HellermannTyton protect the fibre management systems from adverse environmental conditions whilst maintaining ready access for effective cable installation. The fibres are housed in space saving modular units that minimise network disruption and have been designed to allow further modules to be added at a later date for increased capacity, ensuring a future proof design.

More customers are demanding maximum flexibility and a modular approach to cable management systems that will fit into existing and future networks. All closures have therefore been designed to cater for this requirement to accomodate the wide variety of fibre optic cables that are now available including slotted core, loose tube, compact, ribbon and blown fibre / cable applications.

The closures have been designed to meet customer's demands for various fibre management systems including single circuit, single element, multiple element and cross connectivity. Tray design is evolving to meet the needs of bend sensitive fibres, for which the Hellipse™ NZDF range has been developed, for increased fibre storage capacity, the ability to change direction of the fibres and to cater for the various types of splice protectors and PON devices that are now available in the global market.

HellermannTyton manufacture a wide range of fibre closures that can be applied across all areas of FTTX applications. Many of the sealed closures lend themselves to a PON architecture allowing up to 864 fibres in the largest UFC closure all the way down to 36 fibres with the FST closure. All of the closures from HellermannTyton offer flexibility and access so that more fibre can be added in the future (up to their maximum capacity). All of the closures are compatible with Cablelok, HellermannTyton's 100% mechanical seal, or heatshrink can be used as an alternative sealing method.

Members of:

The FTTH Council Europe

The Fibreoptic Industry Association (FIA)

To truly excel, you need to keep improving all the time

Our Corporate Philosophy

Moving the market takes more than good ideas.

Developing the product solutions for the future, requires visionary thinking and the passion to turn ideas into reality.

When visions become functional products, innovations are generated that benefit our customers.

We create the conditions for this by employing motivated people who are committed to working as a team. When only the best solutions will do, you need dedicated professionals with expert knowledge.

The resulting product solutions not only shape the market but also develop it.

We are able to offer product solutions before our customers know they need them.

We maintain good relationships with our customers and also keep a close eye on the latest market developments. This allows us to recognise trends affecting trade and industry at an early stage. And enables us to remain a step ahead of customer requirements at all times.

Meeting high expectations calls for ongoing development.

As well as paying particular attention to communicating with our customers and knowledge of the market, we invest heavily in research and development. To ensure that we can support our customers into the future by offering custom product solutions, we continually optimise our technical and logistical processes.

At your service wherever – and whenever – you need us.

What use are the best product solutions if they are not available to local markets in a timely way? HellermannTyton's motto is therefore "Think global, act local". For us, this not only means responding to the needs of local markets – we also have a presence there for the benefit of our customers.

Employees on the ground allow us to cater for cultural, market specific and linguistic factors effectively. In addition, our customers have access to a worldwide distribution network. This adds value that makes us one of the leading providers for trade and industry.

Certified processes and quality, for your security.

HellermannTyton always aim for the highest quality. To live up to this claim we have implemented both quality and environmental management systems.

Our quality management is certified to ISO 9001:2008.

In addition, our environmental management complies with the requirements of ISO 14001:2004.

Our Development Competence

Innovative product solutions need a solid basis: Three working methods that characterise our design competence.

What does it really take to make an innovative product solution? Put simply, it consists of an idea that leads to products with an added value that is completely new for you. What this highlights clearly is in fact a complex undertaking in which many factors must interact with each other. This is why HellermannTyton uses three working methods to guarantee that development, quality, production and distribution of technically demanding solutions are guaranteed at the highest level.

1 Customer specific product developments.

The most important requirement of all for developing made-to-measure products is established through direct dialogue with our customers. It is on this basis that we develop innovative solutions which meet your high requirement profile.

Our Engineers work closely together in a worldwide network. This is how they can achieve not only optimal synergies, but also a service and support quality which you will find nowhere else.

2 Development of market leading all-purpose products.

We not only invest continuously in research and development, but also closely scrutinise our entire product portfolio.

Intensive market and competition analysis enable us to spot market and processing trends ahead of time.

This is why our products always meet your high expectations and special requirements.

3 Reengineering of existing products.

By reengineering our products, we mean the constant optimisation of our wide-ranging portfolio. Close co-operation with you, the distributors and end-users of our products, allows us to continuously adjust our existing products to meet up-to-date market trends.

This consequent development and modernisation of our products and processes makes ourselves a reliable partner, onwards into the future.

Broadband Connectivity

Fibre to the X

Fibre to the X (FTTX) is the generic term used for any network architecture that uses an optical fibre infrastructure to deliver high speed voice and data signals in a variety of applications. The 'X' refers to the application but can be broken down into Fibre to the Home (FttH), Fibre to the Kerb (FTTK) and Fibre to the Building (FttB) to name a few.

Optical distribution within an FTTX network can face a number of competing technologies including Direct Fibre, Shared Fibre, Active Optical Networks (AON's) and Passive Optical Networks (PON's).

Direct fibre is possibly the simplest form of optical distribution. In this architecture, each fibre leaving the Point of Presence (PoP) goes to only one customer. This type of network provides the customer with excellent bandwidth as they have their own dedicated fibre.

Shared fibre is the most common architecture used across FTTX applications. In this type of network the fibre leaving the PoP is shared by a number of customers. It is not until the fibre gets relatively close to the customers that it is spliced into individual customer specific fibres.

The difference between the Active Optical Network and the Passive Optical Network is quite simple. The AON relies on some form of electrically powered equipment to distribute a signal, such as a switch, router or multiplexer. Each signal leaving the PoP is dedicated to one customer and the powered equipment acts as a buffer to prevent any signals colliding.

The PON is a point-to-multipoint, fibre to the premises network where unpowered optical splitters are used to enable a single optical fibre to serve multiple premises. A PON configuration can help reduce the amount of fibre and PoP equipment required compared to the point to point nature of an AON.

Cablelok™ 100% Mechanical Seal

Growing numbers of fibre engineers and network operators are insisting upon 100% mechanical seal closures. The traditional heat-shrink methods are viewed as craft sensitive with too many health and safety issues relating to gas bottle storage / transportation and confined space use. Other solutions in the marketplace typically rely upon secondary sealing tapes or resins to complete the seal which adds time, complexity and likelihood of error to installations.

Cablelok is a unique and patented 100% mechanical seal which provides the environmental sealing of cable entering a HellermannTyton closure. The sealing is achieved by a number of internal lip seals, which are compressed onto the cable during installation. With an installation time of only 2-3 minutes, Cablelok provides a 100% seal and is significantly faster and safer than using a heatshrink sealing method. Each port size on the HellermannTyton closures has a dedicated cablelok, each accommodating a range of cable diameters.

Fibre to the Home (FTTH)

For new builds and existing housing, fibre is seen as the only solution to deliver high-speed broadband internet, voice and television services to the home now and in the future. A fibre to the home infrastructure delivers high bandwidth and reliability as well as having the capacity to support service developments of the future.

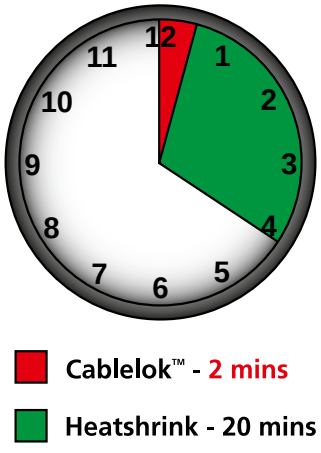
Fibre to the Kerb (FTTK)

Fibre to the Kerb is a telecommunications system where the fibre runs to a platform or cabinet that serves a number of customers. Each of these customers has a connection to the platform or cabinet via copper cable. It is the final leg of the infrastructure running over existing copper that helps an FttK network cost less to deploy. However, for the same reasons an FTTK network has a lower bandwidth than with FTTH.

Fibre to the Campus or Business Park

Whether it's a campus or a business park, a hospital or an out of town retail complex, commercial and residential users require a robust yet flexible network that can deliver high performance and bandwidth over a common infrastructure.

The range of closures from HellermannTyton can accommodate almost any density of fibre to support the demands of a large campus network infrastructure.



Whenever you need us

Think global, act local

If you have a particular problem that you would like us to help you with then please contact us.

With our vast experience and practically unlimited technical capabilities we are confident of being able to help you find a solution.

Remember, we are a service provider and not just a supplier.

Give us a call! Here are your contacts for enquiries and orders

For all product information please visit our Website **www.htdata.co.uk**

Contact Us

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

General Enquiries Tel: +44 (0) 1604 706633
Sales Tel: +44 (0) 1604 707420
Fax: +44 (0) 1604 705454
email: sales@htdata.co.uk
web: www.htdata.co.uk

Europe

HellermannTyton GmbH - Austria
Obachgasse 6
1221 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 Praimbole 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: + 7 812 386 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: hns@htdata.co.uk
www.htdata.co.uk

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 9861
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

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

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

LAN Connectivity

HellermannTyton is an established and innovative leader in the provision of global network infrastructure solutions, offering a broad range of quality, high performance structured cabling products. Our extensive product range includes a number of different options for Category 6A, Category 6 and Category 5e systems as well as our world leading pre-terminated RapidNet system.

With a wide range of fibre closures and fibre management options, including the Integrated Routing System, HellermannTyton's provision of solutions to the broadband and Fibre to the X (FTTX) sector has gone from strength to strength. We are part of the global HellermannTyton group, who are market leaders in cable management serving the communications, construction, utility, automotive and aerospace markets and have operations in 34 countries around the world.

Why choose HellermannTyton for your Network Cabling needs?

- The UK's largest manufacturer producing over three million system points annually.
- ISO 9001:2008 quality certification and ISO 14001:2004 environmental management accreditation.
- Open, responsive and accessible personnel at all levels.
- BICSI registered training available (up to 13 credits).
- 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.

History Timeline

- 1988 Established in Northampton as RW Data
- 2000 Acquired by global company HellermannTyton
- 2003 Launch of innovative pre-terminated RapidNet system
- 2005 Launch of iD - Intelligent Infrastructure Management
- 2007 Launch of iD Active hardware
- 2008 HellermannTyton Broadband Systems move from Plymouth to Northampton
- 2008 Launch of Deca10 – The Category 6A and Fibre range to support 10G systems
- 2010 Launch of MTP VHD RapidNet and 12 Port RapidNet products
- 2011 Introduced Extended FDN and Pre-Tubed closures into BBS Broadband
- 2012 Launch of Broadband Integrated Routing System
- 2012 Introduced 144 core MTP VHD products

Training

HellermannTyton offer a range of comprehensive training courses, held in specially equipped training rooms at the Northampton manufacturing facility.

There are currently three LAN structured cabling courses to choose from:

- 1 day Category 6A course,
- 2 day Fibre course
- 1 day Category 6/Category 5e Practitioners course.

All three of the courses are BICSI approved and carry BICSI credits (CEC's) on completion of the course for all registered RCDD's, Installers and Technicians. The Fibre Installation course carries 13 points; the Category 6A course carries 6 points as does the Category 6/Category 5e course.

On completion of the HellermannTyton training courses, attending installers are then qualified as approved HellermannTyton installers and are able to offer the 25 year warranty on their network installation work through HellermannTyton.

Product and installation training for our range of broadband closures is also available.

More information on HellermannTyton training courses available on request.

HellermannTyton are members of BICSI