

RapidNet



Pre-Terminated Network Cabling Systems

Better Technology Through Innovation

HellermannTyton
Network Sciences

RapidNet Pre-terminated Network Cabling Systems

RapidNet is HellermannTyton's innovative and fully patented pre-terminated, pre-tested and pre-labelled 'plug and play' cabling system which does not require on-site termination. The RapidNet system also requires minimal on-site testing as the product is pre-tested before it leaves HellermannTyton's manufacturing facility. Available in UTP, FTP, SFTP, Cat5E, Cat6, Cat6A and Fibre, RapidNet provides an end-to-end solution that addresses data centres, communication rooms and workstation environments.

Minimise Risk

- Consistent, quality terminations – every time.
- Pre-terminated and pre-tested with test results as standard

Reduce Installation Time

- Reduce installation times by **up to 95%**
- Faster Investment to revenue stream

Fewer On-Site Engineers

- Additional resources for other installations
- Increased security with fewer engineers on site

What you can achieve with RapidNet

- Reduce Installation time by up to **up to 95%**
- Reduced human resource requirement for more effective staff management
- A fixed cost gives more efficient programme management
- Reduce disruption for clients with an efficient and quick installation
- Cut 'downtime' dramatically in a 'business as usual' project
- Easy installation in cabinets and confined riser closets
- Save costs on waste management with reusable RapidNet reels

RapidNet Pre-terminated Network Cabling Systems

The cassette is at the heart of the RapidNet system allowing fast installation and full protection of the terminations. Available in 6 and 4-way, FTP and Optical Fibre versions, allowing for all cabling media to be installed with speed and protection.

- Designed to meet the exacting standards of mission critical installations where network down time and poor system performance is not an option
- All cables supplied with RapidNet are sheathed in a low smoke Zero Halogen material that meets current European standards
- The body of the cassette and the plastic parts of the patch panel are produced in a very tough PC/ABS material to give good protection from damage during installation

Applications

- Under floor and in ceiling voids
- Cabinet to consolidation point, floor box or desk
- Communications room
- Cabinet to cabinet
- Business as usual refurbishment
- Time critical installations
- Installation time saving of **up to 95%**
- Disaster recovery
- Terminated and ready for use
- Sporting events
- Re-usable

RapidNet offers

Pre-terminated cable looms allowing maximum flexibility in the communications room and workstation environments.

- Saving on installation time of **up to 95%** depending on media used
- Standards compliancy for Category 5E, Category 6, Category 6A and Fibre
- Patch panel frames
- RJ45 presentation for copper and LC and SC for fibre
- A variety of connectivity options at the workstation
- Every copper and fibre link is available with certified test results
- Easy to use cassettes with quick release mechanism

RapidNet Deca¹⁰ - The Cat6A Solution

HellermannTyton's new Deca¹⁰ 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).

The copper Deca¹⁰ range has been independently certified by Delta test labs to meet or exceed all link and channel requirements of the TIA Category 6A standard, ANSI/TIA/EIA-568-B.2-10, and the more demanding ISO/IEC Class EA standard, ISO/IEC 11801:2002. Delivering speeds up to 10¹⁰ bits per second (10,000,000,000bps) and up to 500MHz in both copper and fibre, using Deca¹⁰ will help to future proof the installation. The greatest advantages will be seen where either fast or large scale data transfer rates are essential for the running of your business.

The Deca¹⁰ copper solution is manufactured using S-FTP Cat6A cable and can be supplied in a variety of solutions including cable, connectors and patch panels or as HellermannTyton's world class RapidNet pre-terminated system which can reduce installation times by **up to 85%** compared to traditional shielded installations. Also, as a shielded installation, with Deca¹⁰ you can achieve a higher density of cabling compared to that of a standard shielded system.



Cat6A System – Cable and Keystone

The Deca¹⁰ 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 Deca¹⁰ cable uses an 'S' Foil shielding system which insulates the pairs from each other. This provides 360° shielding and eliminates alien crosstalk.



The Deca¹⁰ 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.



Shielded jack body ensures 10G performance



Termination block pre-fitted into jack body

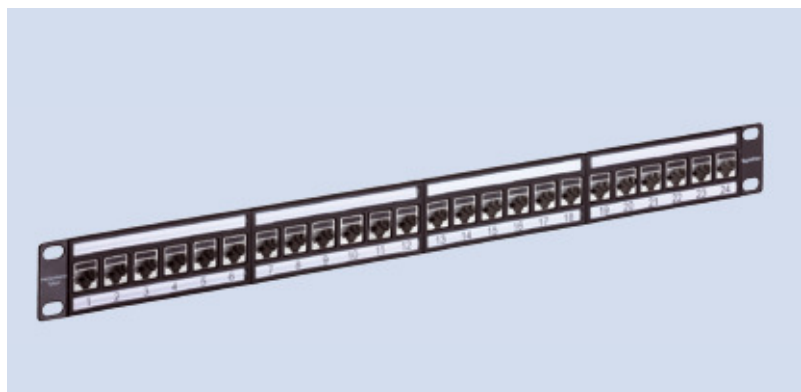
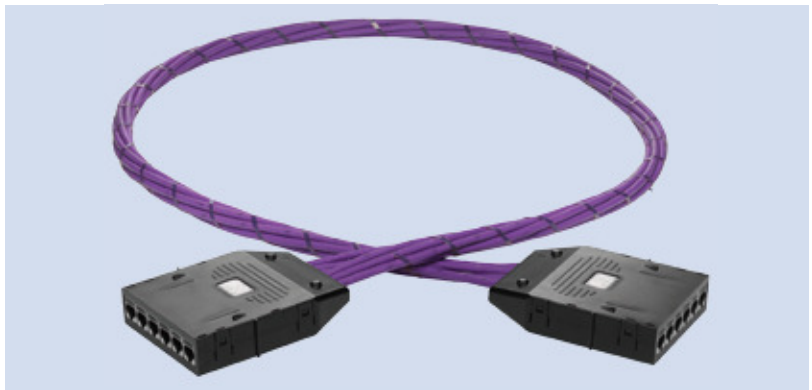


Shielded back completes keystone casing whilst supporting the Cat6A cable into the jack

Deca¹⁰ RapidNet – Performance and Flexibility

Deca¹⁰ RapidNet Cassette

The Deca¹⁰ RapidNet cassette is pre-terminated with 6 Deca¹⁰ Keystone Jacks earthed to a plate within the cassette. The earth plate in the cassette then makes contact with the earth points on the Deca¹⁰ RapidNet panel. The Deca¹⁰ cassette is manufactured with a simple push clip mechanism and polarising pips to prevent incorrect insertion.



Deca¹⁰ RapidNet Panel

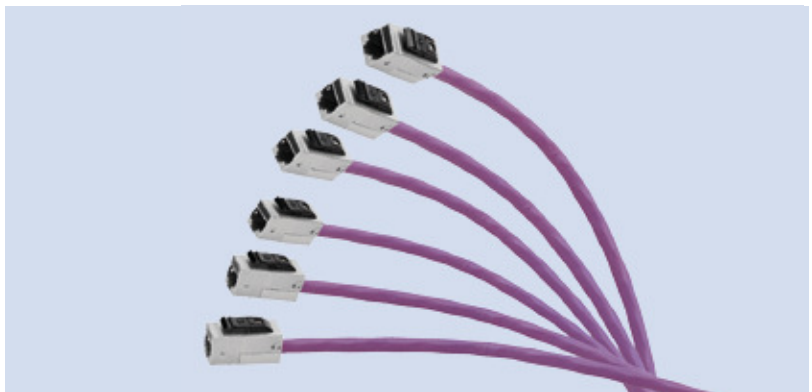
The Deca¹⁰ RapidNet panel accommodates four 6-way Deca¹⁰ cassettes, allowing 24 Cat6A connections per 1U of space. The integral earthing plate grounds each cassette helping to guarantee 10G performance by giving continuity of the 360° shielding.

Deca¹⁰ RapidNet Options

The Deca¹⁰ RapidNet system not only guarantees performance but also offers flexibility for different applications.

The options include:

- Cassette to cassette
- Cassette to keystone
- Cassette to free end



Key Features

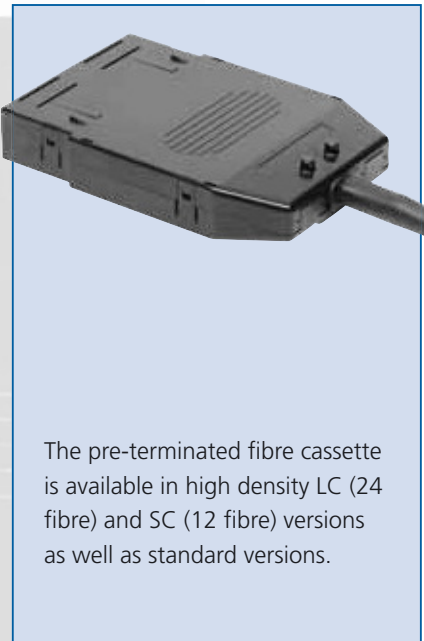
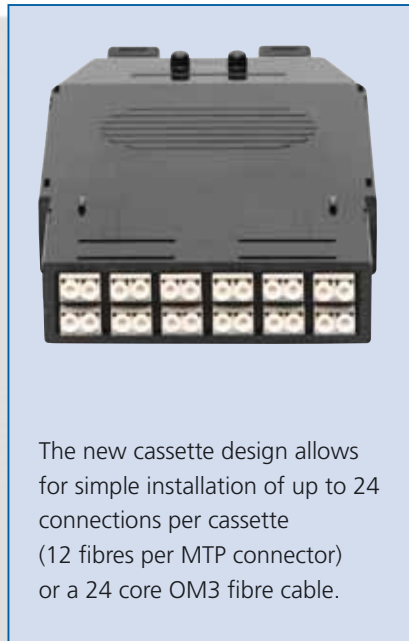
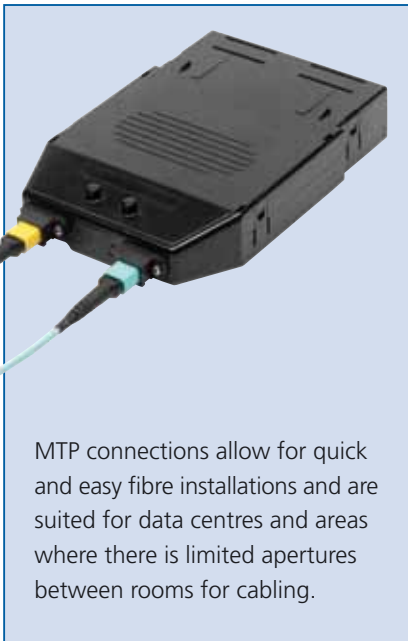
- Full end to end Cat6A solution
- Delivers higher bandwidth and greater speed
- Higher performance with minimal crosstalk and interference
- Future proof network infrastructures
- Available in a traditional solution or as the RapidNet pre-terminated solution

Applications

- Data Centres
- HPC Networks
- Storage Area Networks
- Server Farms
- High Bandwidth
 - Desk based users
 - Hospitals
 - Graphics/HD Video

MTP and Pre-terminated

The fibre optic range is available in RapidNet for either MTP connectivity or pre-terminated options which both help to significantly reduce the installation time by up to 95% while maintaining factory quality terminations. Either system is available with a choice of connections such as LC or SC with LC giving up to 96 connections (48 ports) in a 1U space.



Key Features

- Available as MTP or preterminated in high or standard density LC and SC connections
- Factory pre-terminated and tested (with test results supplied)
- New cassette release mechanism – redesigned as a single press plate

- MTP connection makes installation quicker and easier, especially where space is limited
- Reduce installation time by **up to 95%**
- Cassette to cassette for back-bone fibre
- Cassette to LC 'flying' ends

Applications

- Data Centres – Fast installation where there is limited cabinet and rack space
- Disaster recovery-terminated and ready for use
- Campus – Building to building connectivity

LC and SC Connector Options

Quantity –

Up to 96 LC connections in 1U (48 ports). Available in both MTP and pre-terminated options.



Flexibility –

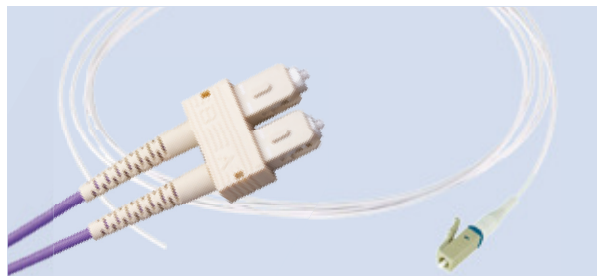
Choose the connection type and density you require.



LC DX High Density		SC DX High Density		LC DX Standard		SC SX Standard	
Maximum Number of Connections (Ports per 1U)							
MTP	Pre-terminated	MTP	Pre-terminated	MTP	Pre-terminated	MTP	Pre-terminated
96 (48)	96 (48)	48 (24)	48 (24)	48 (24)	48 (24)	24 (12)	24 (12)

Fibre Products

Patch leads and pigtails are manufactured using a choice of fibre and connectors. Every connection is tested after manufacture to check insertion and return loss.



The RapidNet MTP Fan-out Assembly or 'Spider' is available with:

- 6 or 12 connections with SC and LC terminals
- Cassette to fan-out
- Cassette to cassette (with MTP back-bone fibre)



Fibre cassette to terminated end

- Available in both LC and SC formats
- Easy installation into traditional fibre panels
- Completely pre-tested and pre-terminated



RapidNet Options Cat6 and Cat5E - 6 Way

HellermannTyton's truly unique and patented 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 for from the RapidNet portfolio - it just takes imagination.

Unshielded Options

Panel cassette to panel cassette

Ideal for cabinet installations.



Panel cassette to pod

For work area deployment.



Panel cassette to hub/switch or server

Terminated with RJ45 plugs.



Panel cassette to Keystone Jack

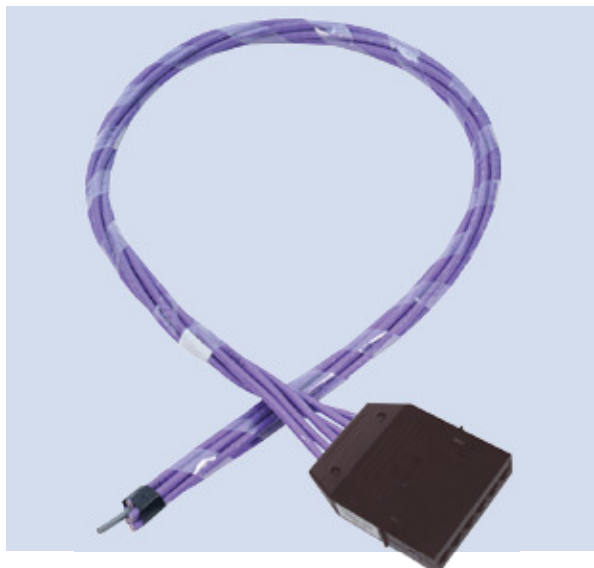
Staggered length option available.



Unshielded Options

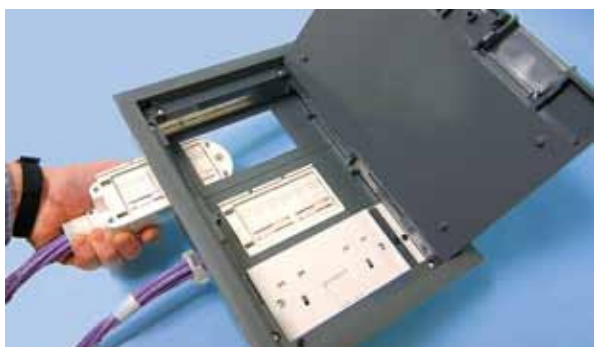
Panel cassette to un-terminated cable

For cable access.



Panel cassette to floor box

Simple snap-in to floor box plate.



Panel cassette to split pod

Staggered length option also available.



Shielded Options

Shielded panel cassette to shielded panel cassette



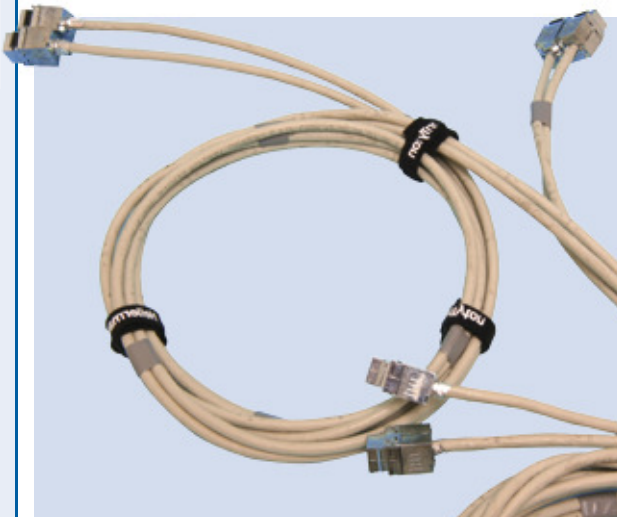
Panel cassette to shielded Keystone Jack

Staggered length option also available.



Panel cassette to split staggered Keystone Jack

Equal length option also available.



RapidNet 4 Way Options

Available in Cat6 and Cat5E the 4 way RapidNet solution is specifically designed for the inter cabinet and inter closet installations. This makes it ideal for offices and call centres where moves, adds and changes are common place.

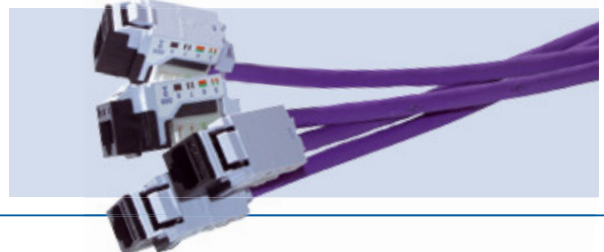
Panel cassette to panel cassette



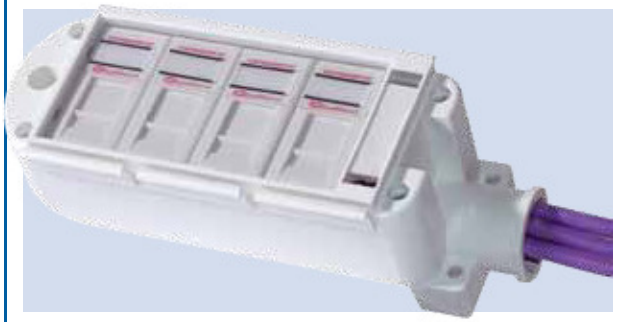
Panel cassette to RJ45 plug



Panel cassette to Keystone Jack



Panel cassette to pod



Factory Testing

100% performance testing of all pre-terminated cable units is carried out at our Northampton manufacturing premises prior to the cable units being released from Quality Control.

- Copper Cat5E and Cat6 RapidNet performance testing is carried out in line with the ISO 11801 and ANSI/TIA/EIA 568-B.2-1 standard
- Copper Cat6A RapidNet meets the requirements of the TIA Category 6A standard, ANSI/TIA/EIA-568-B.2-10, and the more demanding ISO/IEC Class EA standard, ISO/IEC 11801:2002
- Fibre RapidNet performance testing is carried out in line with the ISO 11801 and ANSI/TIA/EIA 568 B.3 standard

Guarantee

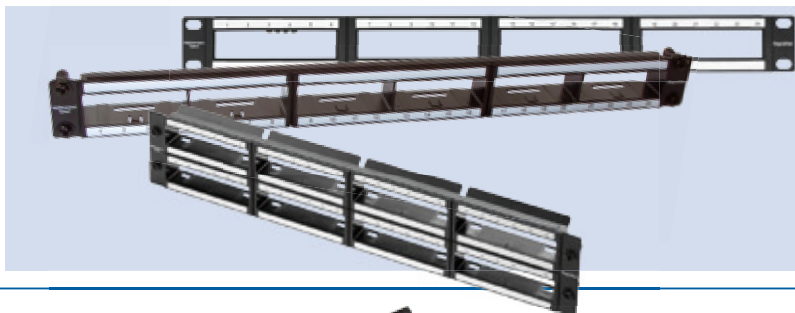
RapidNet is fully covered by the HellermannTyton 25 Year System Guarantee which includes the performance of the system in addition to the lifetime product guarantee. Only HellermannTyton Network Sciences approved installers are authorised to design, install, test, and apply for a RapidNet Network Sciences System Guarantee.



RapidNet Accessories

RapidNet Panels

6 way - Cat5E, Cat6 (shielded, and unshielded), Cat6A and fibre 4 way - Cat6 and Cat5E



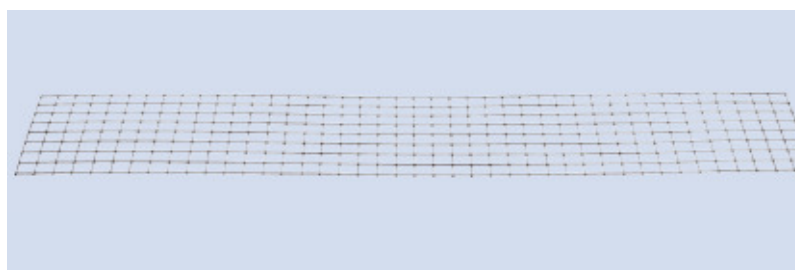
RapidNet Blanks

Available in both 6 and 4 way



RapidNet Mesh

For use in cabinets, works with RapidNet cable management



RapidNet Cable Management

Suitable for Cat6, Cat5E, available in 6 way



RapidNet Trolley

Makes cable pulling easier and holds up to 4 looms. Comes as a pre-assembled 'A' frame with lockable castors



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