

Deca¹⁰



Uncompromised Support for 10G

Better Technology Through Innovation

HellermannTyton
Network Sciences

Deca¹⁰ Uncompromised support for 10G systems

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.



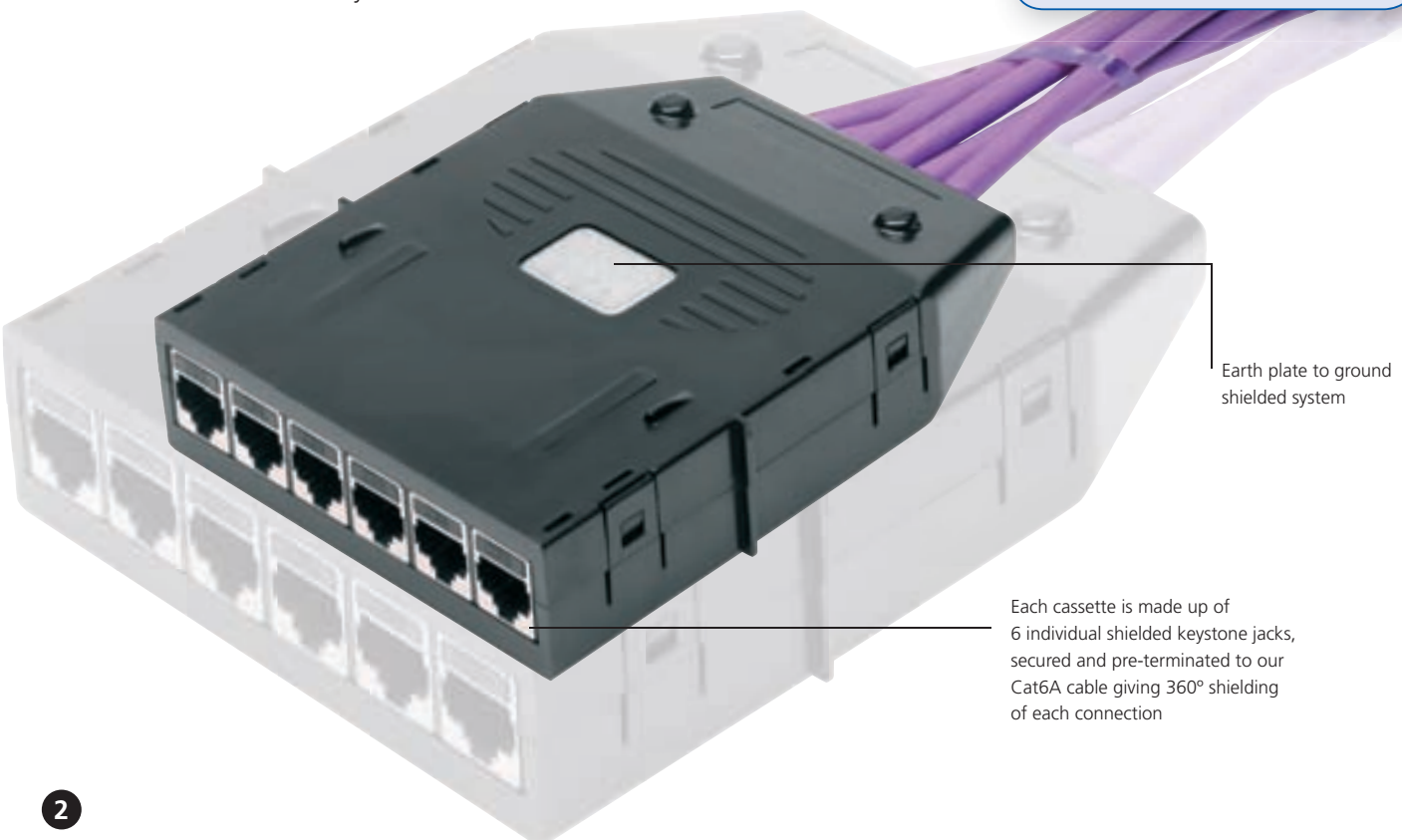
The Deca¹⁰ copper solution is manufactured using S-FTP Cat6A cable and can be supplied in a variety of solutions including cable, connectors and patch panels or as HellermannTyton's world class RapidNet pre-terminated system which can reduce installation times by up to 85% compared to traditional shielded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

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

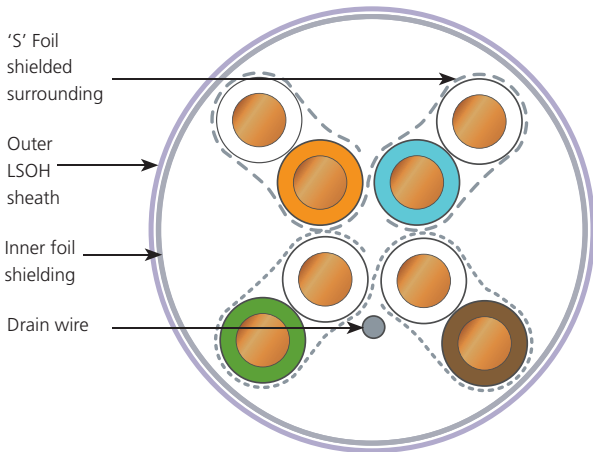
Applications

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

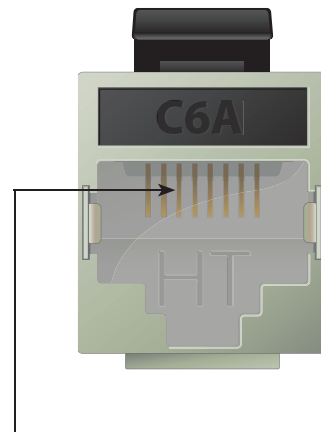


Cat6A System – Cable and Keystone

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).



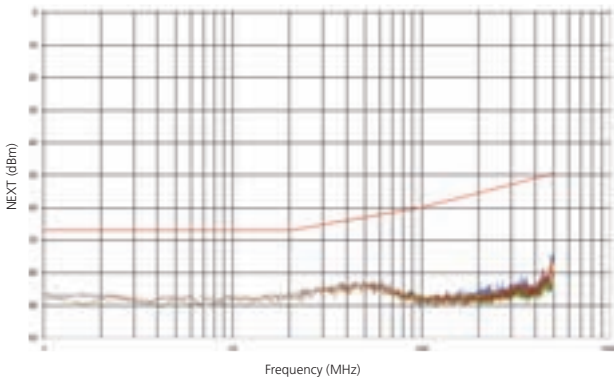
The **Deca¹⁰** cable uses an 'S' Foil shielding system which insulates the pairs from each other. This provides 360° shielding and eliminates alien crosstalk.



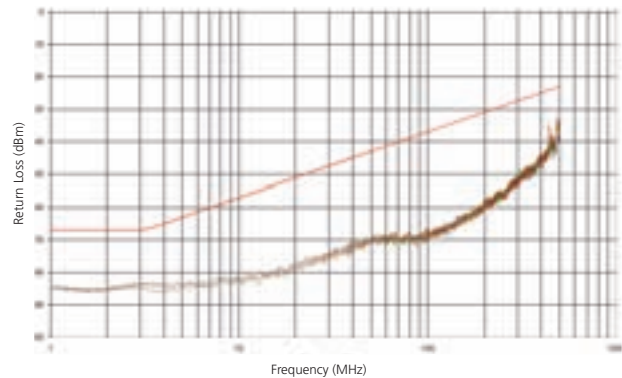
The **Deca¹⁰** Keystone Jack has been uniquely designed adopting HellermannTyton's globally tried and tested 10-Pin Technology which has been designed to guarantee superior performance and connectivity.

Test Result Data for Cat6A system link

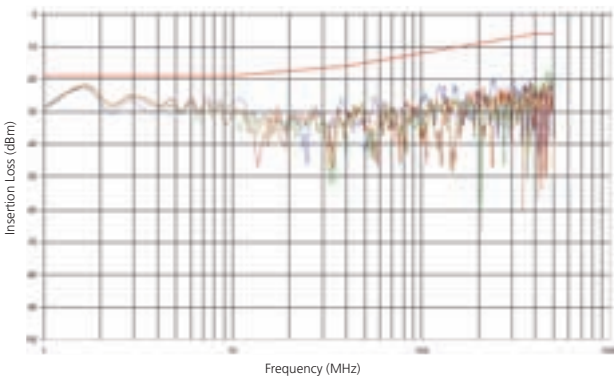
Pair To Pair NEXT - Forward Direction (Element 1)



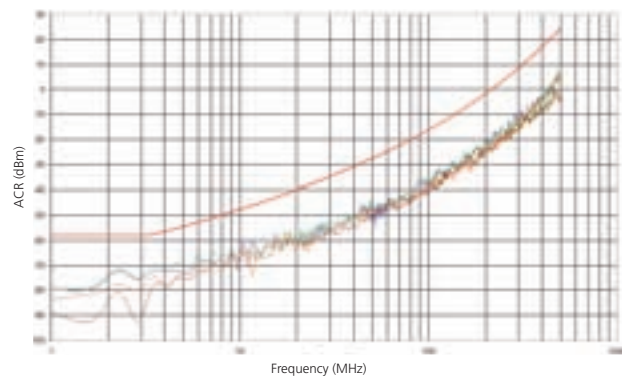
Return Loss for Each Pair - Forward Direction (Element 1)



Insertion Loss (Element 1)






Pair To Pair Attenuation to Crosstalk Ratio - Forward Direction (Element 1)




Uncompromised Support for 10G

The Deca¹⁰ copper keystone has been designed to be 'non-punchdown'. All 8 terminations are made at once using our special high speed termination tool, helping to ensure quality and consistency of the connections and speeding up the termination process. Deca¹⁰ also supports backwards compatibility to Cat6, Cat5E and Cat5 by using standard RJ45 shielded connectors.

	<p>Shielded jack body ensures 10G performance</p>
	<p>Termination block pre-fitted into jack body</p>
	<p>Shielded back completes keystone casing whilst supporting the Cat6A cable into the jack</p>

Deca¹⁰ Traditional Products

	<p>The Deca¹⁰ keystone patch panel has been designed to accommodate the Deca¹⁰ Keystone Jack ensuring that the shielded system is maintained by giving a choice of ground stud positions on the integral grounding bar and includes rear cable management.</p>
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<p>The Cat6A keystone tool is required to terminate the cable within the keystone. The tool is simple to use and ensures a good connection, trimming the cores and terminating in 1 single action.</p>	
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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

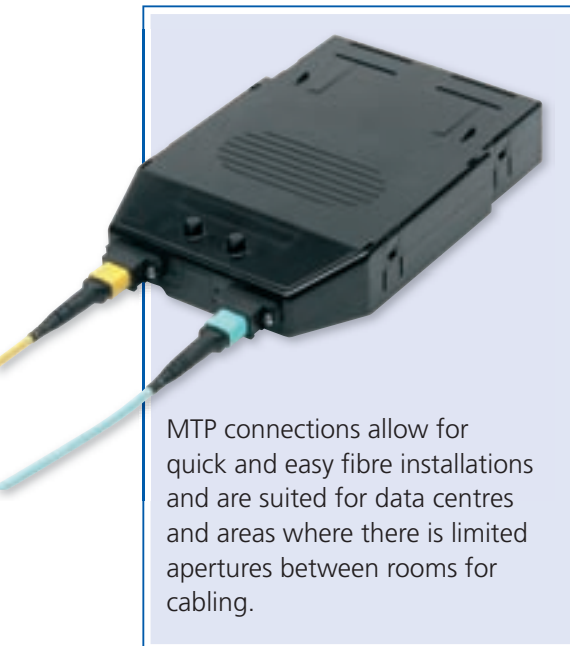
The **Deca¹⁰** RapidNet system not only guarantees performance but also offers flexibility for different applications. The options include:

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



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.



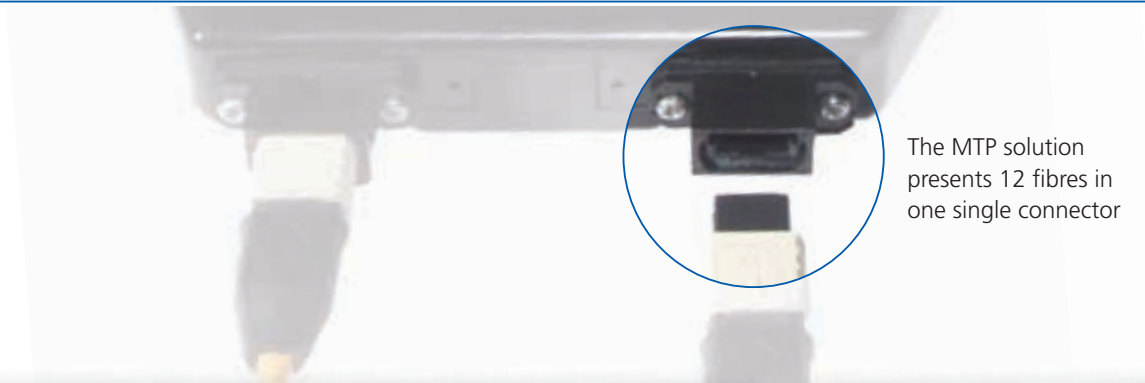
MTP connections allow for quick and easy fibre installations and are suited for data centres and areas where there is limited apertures between rooms for cabling.



The new cassette design allows for simple installation of up to 24 connections per cassette (12 fibres per MTP connector) or a 24 core OM3 fibre cable.



The pre-terminated fibre cassette is available in high density LC (24 Fibre) and SC (12 Fibre) versions as well as standard versions in both LC and SC.



The MTP solution presents 12 fibres in one single connector

Key Features

- Available as MTP or pre-terminated 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 or SC 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 Options



Patch leads and pigtailed are manufactured with 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

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