

RapidNet Keyed LC

Secured Identification

HellermannTyton

RapidNet Keyed LC

The use of colour coded and differently keyed connectors and adapters in an optical network can aid the segregation or identification of parts, or paths, within a network infrastructure.

In addition, the use of keyed connectors can help to reduce the risk of accidental or malicious network access, particularly in shared access areas or in secure hierarchical environments such as government, military or research facilities.

Segregate Shared Access Networks

Within co-location and multi-client sites, keyed connectivity can be used to dedicate circuits to specific clients or services.

Alternatively, the use of the colour coding can be used to identify and segregate locations such as zones, halls, PODs and cages.

Diverse routing paths can also be identified and managed with the use of colour coded keyed connectivity.

Manage Secure Hierarchical Environments

It is common for government, security, defence or financial organisations to maintain networks with varying levels of security classification within shared facilities.

The use of keyed LC connectors and adapters within the network infrastructure can help to maintain security and prevent unauthorised or accidental network access.

Maintain Network Security

Many networks contain highly sensitive or classified information including financial, personal and product development data while others contain details from applications such as Digital Video Recording, security tags and biometrics.

For these networks, maintaining the network integrity and security is of the highest importance.

Use of differently keyed connectors and matching adapters helps prevent access to a channel and ensures the security of the application and information.



RapidNet Cassette with Keyed LC Adapters

Features and Benefits

- Mechanical segregation and identification of network paths or security hierarchies
- Reduce the risk of accidental or malicious network access
- Available in RapidNet and RapidNet MTP, fan out cables and patch leads
- 12 different mechanical and colour options
- Keyed LC connectors will only mate with the corresponding adapter
- Standard LC connectors will not mate with keyed adapters
- High quality low loss LC ferrule





Product Features

- The connectors and adapters are manufactured to high quality single mode tolerances ensuring good alignment characteristics and low losses.
- Typical losses are 0.15dB for multimode and 0.08dB for single mode.
- The performance of the mated pair meets or exceeds the performance requirements of TIA568-C.3 and IEC 874-14 inter-operability.
- The adapters are manufactured as a single piece moulding, making them stronger and helping to ensure good mechanical alignment. A ceramic sleeve ensures precise optical alignment of the ferrules and low optical losses.
- The connectors and adapters have to colour match in order to produce a network connection; differing colours cannot be mated thereby preventing the connection of the fibre channel.
- The keying of the 12 colour options is created through a series of slots and protrusions ensuring no mixed colours can be installed, even when forced.



come in 8 standard colours

The Keyed LC connectors and adapters



Connection Colour Coding Table				
Colour	RapidNet & Patch Leads		Fan Out	
Cobalt (Blue)	L	Н	F	Н
Pink	L	2	F	2
Yellow	L	3	F	3
Red	L	4	F	4
Orange	L	5	F	5
Grey	L	6	F	6
Turquoise	L	7	F	7
Olive (Green)	L	8	F	8
White*	L	W	F	W
Violet*	L	V	F	V
Brown*	L	В	F	В
Magenta*	L	М	F	М

* Available by special order only

RapidNet Keyed LC

RapidNet, HellermannTyton's industry leading pre-terminated structured cabling system, is available pre-assembled with keyed LC adapters.

RapidNet cassettes at both ends of a link may be specified with keyed LC adapters, alternatively a single end may be keyed with the second end using standard adapters. This may be of use where one end is in a restricted access area, such as the core infrastructure, and the other is in an open access area, such as the user patching interface.

RapidNet MTP cassettes are also available with keyed LC connectors. The RapidNet MTP cassettes are then combined with a standard MTP cable assembly to give a full link.



Keyed RapidNet MTP Cassette

RapidNet Part Number:



Example: RNFTD24-L2F3M4-10.5M = Straight Through Pre-Terminated Loom, 24 Core, End 1: Cassette with Duplex, Pink Adapters, End 2: Fan Out, Yellow Connectors, OM4, 10.5m.

Keyed Patch Leads

HellermannTyton's range of patch leads to support the keyed RapidNet looms can be configured with either both ends keyed or one end keyed, the other standard.

Keyed connectors at both ends of the patch lead may be used in a cross connect patching situation whilst single end keyed patch lead enable connections into active equipment with standard LC adapter interfaces.

Patch leads are available in standard lengths of 1, 2, 3, 5, & 10m. Other lengths are available to order.



Coloured Keyed Patch Leads

Patch Lead Part Number:



Example: FLSXXM4L2-L3DA-10.5M = Straight Through, OM4, End 1: Pink LC Connector, End 2: Yellow LC Connector, Duplex with standard boots, Aqua Cable, 10.5m

Keyed Fan Out to Fan Out Cables

HellermannTyton's fan out to fan out cables enable direct patching between equipment or racks without the need to use valuable U space within the cabinet, or to reduce the space requirements within cable routes and pathways; e.g. the 144 core version uses an 8mm diameter cable, a significant space saving compared to 72 standard patch cords.

The fan out unit is metal and includes internal strain relief. The protective tubing ensures the elements are as robust as standard patch leads.



Fan Out to Fan Out Part Number:



Example: RNFTSH4-F7F5M3-25.5M = Straight Through Pre-Terminated Loom, Simplex, 144 Core, End 1: Turquoise Fan Out, End 2: Orange Fan Out, OM3, 25.5m.

MTP to Keyed Fan Out

HellermannTyton's MTP to fan out cables are used in conjunction with either RapidNet MTP VHD or RapidNet MTP.

RapidNet MTP VHD saves valuable rack space by enabling high density patching upto 288 10GbE ports (576 fibres) in 1U of rack space, the equivalent of 6U of standard LC patching.

RapidNet MTP enables simplified cross patching with direct connection into active equipment.

The cables are available as 12 or 24 cores with Elite® low loss MTP as standard.



MTP to Fan Out Part Number:



Example: FLC12M4-MFL8SA-10.5M = Cross Over, 12 Core, OM4, Olive (Green) Fan Out, Simplex with standard boots, Aqua Cable, 10.5m

Contact us



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