

LITPD203

Rev. 2

# RapidNet™



Pre-Terminated Network Cabling Systems

**HellermannTyton**  
A SPIRENT Company



# RapidNet™

## Network Cabling System

### RapidNet -

#### A Revolution in Copper & Fiber Network Cabling

As a global manufacturer of network cabling solutions, HellermannTyton has always been at the forefront of technological advancement within the industry. Continuously leading by example, HellermannTyton designs, develops and manufactures connectivity products and complete system solutions which meet or exceed international industry performance standards.

However, performance is not the only issue for installers and their customers. Many mission critical data center installations are conducted on weekends or evenings to minimize network downtime or disruption to a customer's business. Even on new building installations, network cabling installers may face strict access and dead-

line pressures. In addition, the installation company may not have the required staff to meet a project deadline. HellermannTyton has developed RapidNet for these time critical installations.

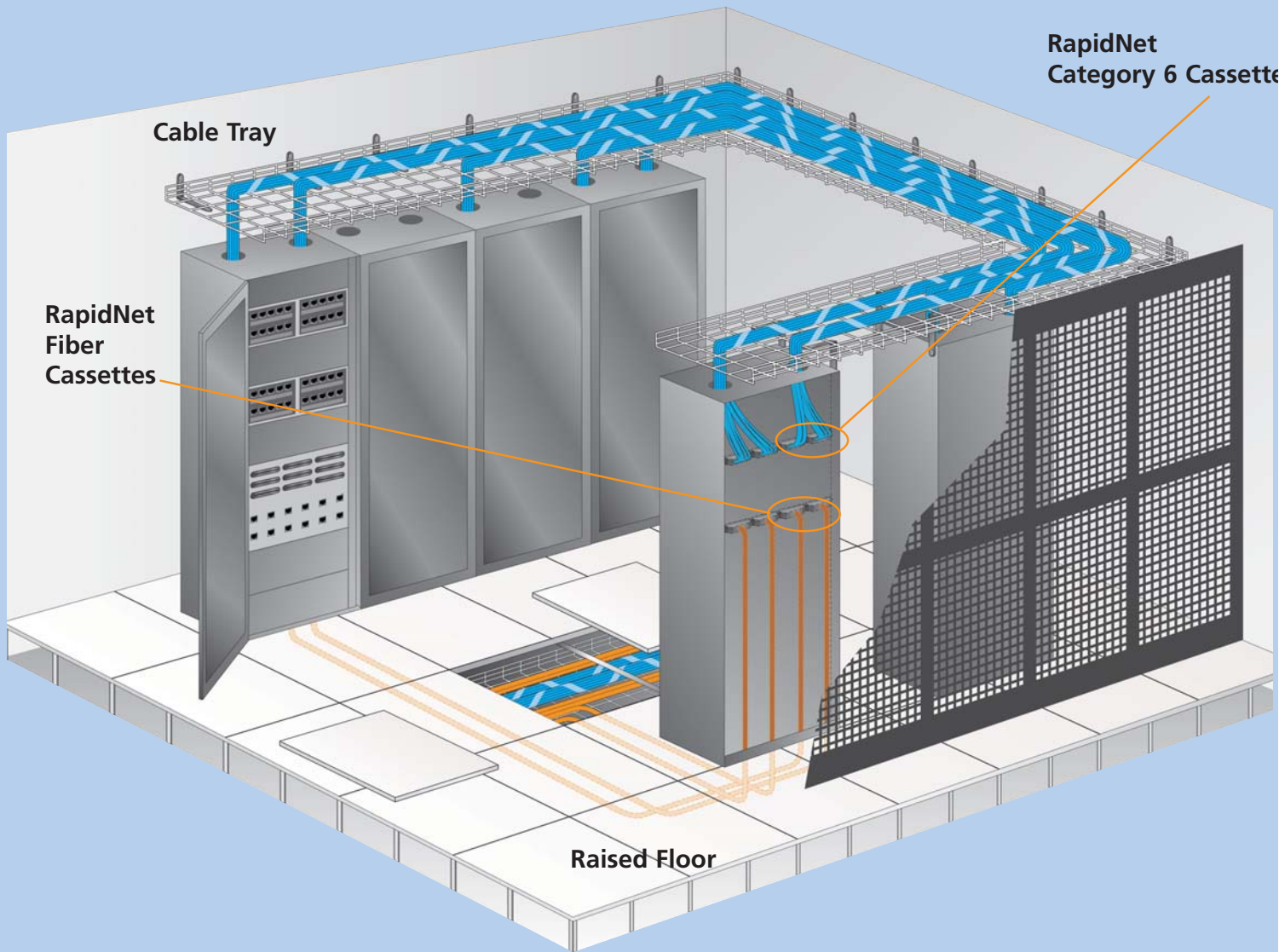
#### What is RapidNet?

RapidNet is a pre-terminated "plug and play" system which does not require on-site termination or certification testing. This dramatically reduces installation time - up to 75%. Even though the installation will be completed in record time, quality and performance is never compromised because each individual link is terminated and tested by HellermannTyton before being delivered to the site.

#### RapidNet Applications

- Mission Critical Data Centers
- Central Offices
- CATV Headends
- Enterprise Data Centers
- Disaster Recovery
- Redundancy Planning
- Temporary Networks

## Typical Data Center Application with RapidNet



**RapidNet Reel**



**RapidNet Box**



- Copper lengths up to 75 feet are supplied in the RapidNet box; lengths from 75 - 295 feet are supplied on the RapidNet reel.
- Fiber lengths up to 150 feet are supplied in the RapidNet box; lengths over 150 feet are supplied on the RapidNet reel.
- Both the RapidNet reel and box have proper bend radius protection for the cable and protection for the cassette during shipment.

## RapidNet Category 6 Copper Solution

RapidNet Category 6 is an ideal solution for high-performance cabling requirements, such as Gigabit Ethernet and 10 Gigabit Ethernet. RapidNet utilizes a bundled cable with 6 high-performance Category 6 UTP cables bound together with a Kevlar binder. Cut to the customer specified length at HellermannTyton, each 6-port loom is supplied terminated at both ends to HellermannTyton's patented RapidNet cassettes and shipped on proprietary plastic cable reels. Each pre-labeled 6-port cassette snaps easily into the modular panel. Removal of cassette is just as easy - simply slide the latch forward and the cassette easily comes out of the rear of the panel.

### Product Features

- Positive PSACR over 350 MHz and a typical worst-case margin of 15 dB at 250 MHz
- Bundled cable is UL Verified to Category 6, TIA/EIA-568.B.2-1 specifications
- Certification test reports included with all links
- 1U modular panel accepts 4 RapidNet cassettes for 24-ports
- Available in lengths from 10 - 295 ft.

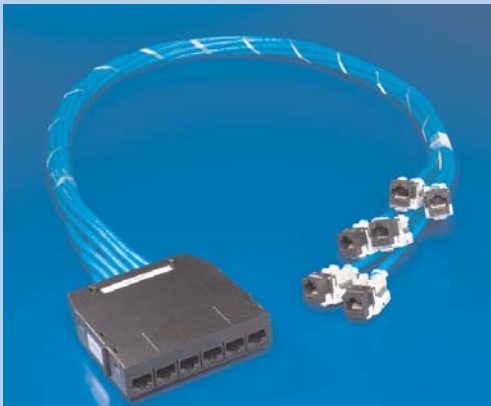


### Product Selection

*Casette to Casette (panel to panel)*

<b>Part Number</b>	<b>Description</b>
<b>RNC6CMPXXX*</b>	RapidNet CAT6 CMP (plenum) cassette - cassette 6-port loom - blue
<b>RNC6CMRXXX*</b>	RapidNet CAT6 CMR (riser) cassette - cassette 6-port loom - white
<b>RNPP1U</b>	RapidNet Modular Panel - 1U

**\*Note:** To complete part number, replace the "X"s with the length required in feet, 10 to 295 ft.



### Product Selection

*Casette to Jack (panel to modular panel or work area)*

<b>Part Number</b>	<b>Description</b>
<b>RNC6JCMPXXX*</b>	RapidNet CAT6 CMP (plenum) cassette - jack 6-port loom - blue
<b>RNC6JCMRXXX*</b>	RapidNet CAT6 CMR (riser) cassette - jack 6-port loom - white
<b>RNPP1U</b>	RapidNet Modular Panel - 1U

**\*Note:** To complete part number, replace the "X"s with the length required in feet, 10 to 295 ft.

## RapidNet Fiber Solution

RapidNet Fiber is an excellent solution for extremely high bandwidth needs or extended distances. RapidNet Fiber utilizes the LC connector and a 12-fiber single unit Plenum (OFNP) cable. Cut to the customer specified length at HellermannTyton, each 12-fiber link is supplied terminated at both ends to HellermannTyton's patented RapidNet cassettes and shipped on proprietary plastic cable reels. Each pre-labeled 12-fiber cassette snaps easily into the modular panel. Removal of cassette is just as easy - simply slide the latch forward and the cassette easily comes out of the rear of the panel.

### Fiber Options

- 62.5/125  $\mu\text{m}$  (OM1 Fiber)
- 50/125  $\mu\text{m}$  (OM2 Fiber)
- 50/125  $\mu\text{m}$  laser optimized 10G (OM3 Fiber)
- Singlemode

### Product Features

- Exceeds TIA/EIA-568-B and IEEE 802.3ae 10GbE standards
- Modular panel accepts 4 RapidNet cassettes - allowing up to 48 fibers in 1U
- Certification test reports included with all fiber links



### Product Selection — Fiber

<b>Part Number</b>	<b>Description</b>
<b>RNF62PXXX**</b>	RapidNet 62.5/125 $\mu\text{m}$ 12-fiber assembly - orange
<b>RNF50PXXX**</b>	RapidNet 50/125 $\mu\text{m}$ 12-fiber assembly - orange w/aqua stripe
<b>RNF50P10GXXX**</b>	RapidNet 50/125 $\mu\text{m}$ 10Gig 12-fiber assembly - aqua
<b>RNFSMPXXX**</b>	RapidNet Singlemode 12-fiber assembly - yellow
<b>RNPP1U</b>	RapidNet Modular Panel - 1U

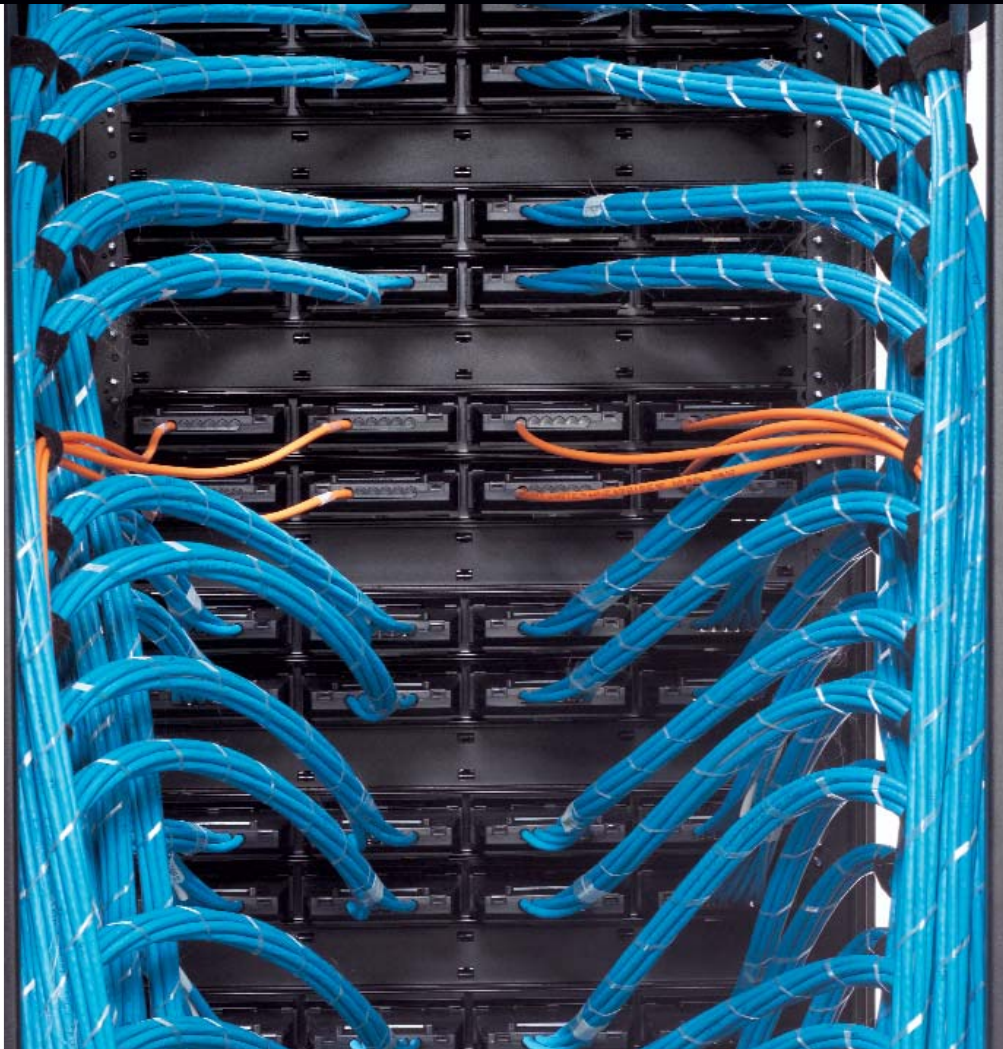
**\* Note:** To complete part number, replace the "X"s with the length required in feet.



### Product Selection — Modular Patch Panel

<b>Part Number</b>	<b>Description</b>
<b>RNPP1U</b>	RapidNet Modular Panel - 1U

Each 1U RapidNet modular patch panel accepts four copper and/or fiber cassettes



UP TO 75% LESS INSTALLATION TIME

CAT  
**6**

HIGHEST PERFORMANCE



COPPER/FIBER MODULARITY

ISO  
9001

FACTORY TERMINATED AND TESTED

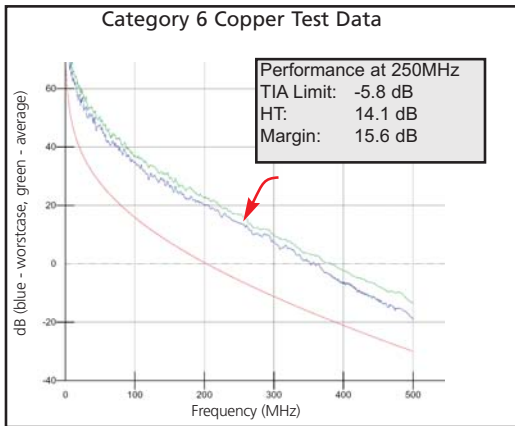
### Installer Benefits

- Fewer technicians required
- Complete more projects with the same workforce
- Factory terminated and 100% tested

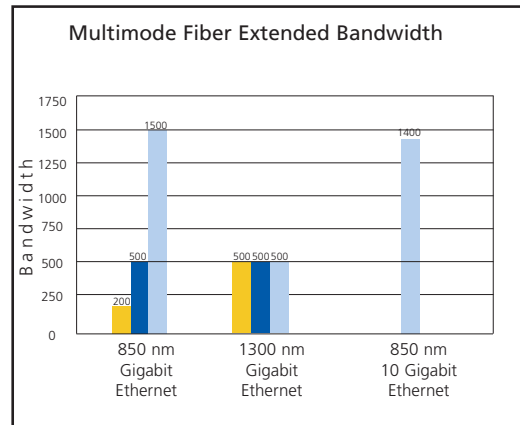
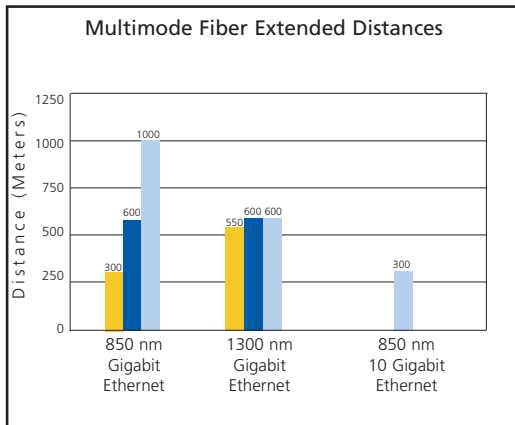
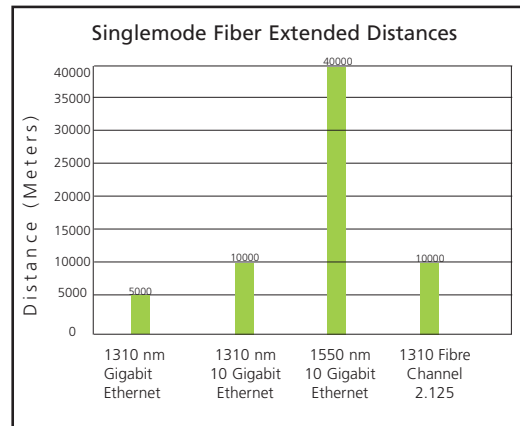
### End-User Benefits

- 75% reduction in installation time
- Quality controlled and 100% factory tested
- Security - make easy cabling additions in-house
- 25 Year System Warranty

## RapidNet Test Data



Worst case - 2-connector channel — Test results by Intertek (ETL)



HT 62.5/125 µm

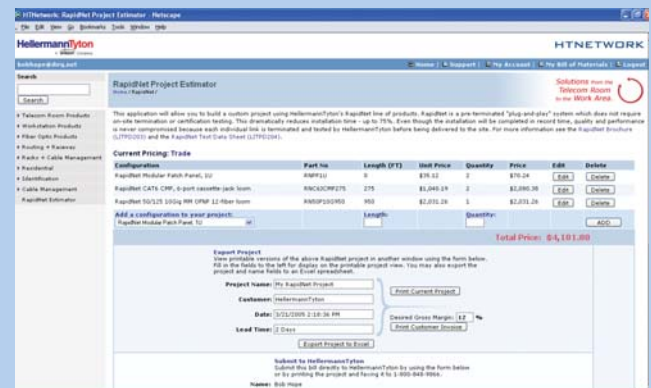
HT 50/125µm

HT 50/125 µm - 10G

## Project Estimator

HellermannTyton offers a RapidNet Project Estimator to develop a bill of materials and project costs.

- Web-based tool to estimate pricing
- Free program for contractor or end-user
- Allows easy determination of project materials
- Exportable into MS Excel
- Contact HellermannTyton for more information



# HellermannTyton

A SPIRENT Company

7930 N. Faulkner Rd, PO Box 245017  
Milwaukee, WI 53224

## System Warranty

HellermannTyton assures installation dependability and maximum performance with its 25 Year Network Sciences Warranty Program. The Network Sciences warranty guarantees the consistent quality and performance of HellermannTyton's structured cabling products and installed systems for 25 years. The 25 year warranty covers the copper and fiber connectivity products and cable, ensuring system performance in accordance with the current TIA standards.



The 25 year Network Sciences warranty is only offered through HellermannTyton RapidNet Certified Installers. These Certified Installers have trained and successfully passed the required exams to install a Network Sciences warranted system. HellermannTyton Certified Installers are the essential connection between HellermannTyton connectivity products and the design, installation, testing, and maintenance of a structured cabling system.

## Project Certification

For project certification, one of six copper and one of 12 fiber links must be tested to TIA-568B standards with an approved tester. For a current list of approved testers, please contact HellermannTyton.

## Product Warranty

In addition to a performance warranty, HellermannTyton also offers a lifetime warranty on its connectivity products. This warrants that the products are free of factory defects in material and workmanship.

For more warranty information online, go to:  
<http://www.hellermann.tyton.com/connectivity.asp>

## In addition to RapidNet

HellermannTyton manufactures a full line of network cabling solutions expertly designed for exceptional performance and ease of installation. From the telecom room to the work area, HellermannTyton's products provide seamless integration, resulting in higher performance and lower installed costs.



## HellermannTyton Corporate Headquarters North America

7930 N. Faulkner Rd, PO Box 245017  
Milwaukee, WI 53224  
Phone: (414) 355-1130, (800) 537-1512  
Fax: (414) 355-7341, (800) 848-9866  
<http://www.hellermann.tyton.com> • email: [corp@htamericas.com](mailto:corp@htamericas.com)  
A QS-9000 and ISO 14001 Registered Company

## HellermannTyton Canada

Beaver Creek Business Park  
Unit #1, 160 West Beaver Creek  
Richmond Hill, Ontario L4B 1B4 Canada  
Phone: (905) 882-8024, (800) 661-2461  
Fax: (905) 882-1624, (800) 390-3904  
email: [sales@hellermanntyton.ca](mailto:sales@hellermanntyton.ca)

## HellermannTyton Mexico

Rio Conchos 1757  
Colonia Industrial El Rosario  
Guadalajara, Jalisco, Mexico 44890  
Phone: (3) 659-7020, 011-52-3-659-7020 (From U.S.)  
Fax: (3) 659-6939  
email: [info@hellermanntyton.com.mx](mailto:info@hellermanntyton.com.mx)