Data Center Solutions

HellermannTyton

HellermannTyton is a leading global manufacturer of network cabling solutions which connect, manage and identify cable and components. Located in over 30 countries, HellermannTyton utilizes global resources channeled to local implementations to offer its customers an integrated approach to design, operation and delivery. Flexibility, agility and the ability to create value-added, market-driven results are the hallmarks of every HellermannTyton company across the world.

No matter the complexity of a project, whether it entails global or local management, HellermannTyton is uniquely poised to bring high-performance solutions and service to the data center.

WE ARE FLEXIBLE AND FAST

HellermannTyton is structured to address any cabling need within a data center, no matter the scale. We can assist quickly and easily with every step of the process and always lend the support required for meeting mission critical deadlines. As the original provider of pre-terminated Category 6 copper solutions, we know how important it is to be flexible in order to meet changing deadlines. We recognize the significance of accommodating for the different configurations essential to meet a precise need. And, our communication style is constant and straightforward, so the product is delivered as specified and on time. Our knowledge and experience provide the peace of mind our customers need, so they can focus their time and effort on other challenges.

CUSTOM IS THE STANDARD

This catalog is only one small portion of what we offer our customers. At HellermannTyton, "custom is the standard." Not every data center connector or cable requirement can be found in our catalog, as we are more than an "off-the-shelf" supplier. If you need to add to an existing infrastructure or want to implement something new, contact us. Sure, we want your business, but we do more than take orders. We discuss the need, provide options and supply samples, when requested, to assure a customer that we have the optimal solution to the challenge.

PERSONALIZED TECHNICAL LEADERSHIP

At HellermannTyton, we utilize the current and emerging standards required to guide any data center project, regardless of scale. We have built our reputation, as evidenced by our repeat customers and their referrals, on personalized technical leadership to ensure the cabling infrastructure performs as expected and meets the installation deadline. Our sales engineers are experienced in identifying the correct solution for the specified need and will assist in designing the cabling requirements for the particular environment, whether it is for today's application or decades down the road. No fears. No worries. Just the personalized technical leadership every customer receives from HellermannTyton.

THE HELLERMANNTYTON ADVANTAGE

PERSONAL ASSISTANCE

We offer personalized technical leadership to ensure a project's success. We are true partners in the design, measurement, and implementation of data center cabling.

DRAWINGS

If layouts or other drawings are needed to determine the course of your project, HellermannTyton will provide you with what you require.

EXPERIENCE

HellermannTyton was the first to introduce a package of copper and fiber pre-terminated solutions to the marketplace. Many variables need to be considered when delivering an exceptional pre-terminated solution on-time and to specification. Our experience is invaluable in delivering you the product you need, when you need it – exceeding your expectations.

HellermannTyton also serves on TIA/EIA standards committees, so we are able to help you interpret current and future standards and their applicability to you.

ASSURANCE

Each RapidNet port is factory tested and verified to ensure performance levels exceed current TIA/EIA standards. Test results are included with each shipment. A 25-year warranty is offered to registered RapidNet projects.

PACKAGING

The specially designed RapidNet packaging maintains critical bend radius requirements and protects the cassette ends.

UNIQUE DESIGN

RapidNet's patented cassette is tough. It thoroughly protects the cable and terminations from initial installation through moves, adds, and changes. HellermannTyton's other products also feature design differences which make our products easier to install, perform better, and last longer than other choices in the market.

LABELING

RapidNet comes to you pre-labeled for easier administration. Leaders in data center identification, HellermannTyton also offers RapidNet with customized labeling upon request.   In addition, HellermannTyton offers stand-alone labeling solutions which increase productivity and produce highly-legible text.

ONLINE ESTIMATOR

- Web-based tool to create BOM's

- Free program for contractor

- Allows for easy determination of
  project materials

- Ability to submit project BOM for pricing

CONCENTRIC
TECH SOLUTIONS

Gentlemen,

I write this note in great satisfaction with the superlative efforts of our HellermannTyton sales engineer. He deserves strong praise. He has consistently provided superior support, information, and communication throughout our purchasing process and I am considerably impressed. The products supplied are second to none and allow my company to provide an excellent installation experience for my customer.

The project, in which our sales engineer played an instrumental role, was for a government agency with a crushing schedule and a number of external groups who exist, it seems, to only frustrate progress. Without his involvement, this project was headed directly for disaster.

Thank you for having such a positive, professional, intelligent ambassador to your company available to us. He continues to impress us and we look forward to a long and fruitful relationship with HellermannTyton.

Best regards,
Joe Sladek
CEO | Concentric Technical Solutions

As the need for data center capacity increases, so do the internal demands on the data center. The data center now faces a number of issues that impact its success, profitability and operational effectiveness, including:

- **Data storage capacity**
- **Speed of return on investment**
- **Infrastructure performance**
- **Power consumption**
- **Temperature control**
- **On-site security**
- **Environmental impact**

Reduce Installation Times

Speed of installation is one of the most important factors in data center applications. With mission critical and time sensitive deadlines, cabling infrastructure schedules are often compressed. The quicker the infrastructure is up and running, the quicker it is ready for use.

Through RapidNet, the pre-terminated and pre-tested solution from HellermannTyton, it is possible to reduce installation times by up to 85% with copper and 95% with fiber compared to traditional field terminated systems.

Through identification, HellermannTyton enables better administration and deployment. HellermannTyton's systems help you better organize your cabling infrastructure so you easily know "what goes where."

By using TagPrint™ Pro labeling software, Excel database files can be opened directly into the program and then printed on labels using a HellermannTyton portable thermal transfer, laser or ink jet printer. Using an existing database reduces keyboard entry errors, automates the transfer of data to printed labels and can save hundreds of labor hours. In addition, entire identifier libraries can be emailed to a job site and then printed on demand as the drops are labeled and installed. TagPrint™ Pro is compatible with any database format, but also will support the ANSI/TIA/EIA-606-A Addendum 1 requirements for general infrastructure and data centers.

Space Efficiency

Space within a data center comes at a premium. It is important to use the available space as effectively and efficiently as possible. The more space and connectivity that can be offered within any rack space is a clear benefit.

HellermannTyton offers many products that address the issue of space within a data center – from the 1U 48 port high-density patch panel to MTP® Fiber RapidNet cassettes and ZeroU-RapidNet Auxiliary Rails for cabinets.

Performance Readiness

Our cabling solution is the best end-to-end structured cabling system in the industry today for data center applications. Our Category 6A system can support a large enterprise data center with extra headroom. Our standard Category 6 system performance exceeds the TIA/EIA 568-C.0, C.1 cabling standards and ISO Class E standards which offers high-quality network infrastructure for a typical Class 1 and 2 data center installation.

The 40Gbps and 100Gbps standards were ratified in June 2010 by the IEEE 802.3ba task force. As the line transmission rates are increased from 10Gbps to 40Gbps to 100Gbps, HellermannTyton is ready to support the physical layer connectivity with high-performance, multi-lane distribution of OM3 and OM4 and OS1 fiber optic components that enable next generation 40Gbps and 100Gbps fiber-optic telecommunications and data communications networks. HellermannTyton offers a broad portfolio of high speed fiber optic MTP® devices including pre-terminated MTP® connector cables, adapters, bend insensitive fiber with MTP® connectors, and high-density MTP® communication adapters.

HellermannTyton labels are UL recognized for indoor and outdoor use and offer superior abrasion and chemical resistance. High carbon inks mean that printed text will not fade and disappear over time.

On-site Security

In addition to the reduced installation times seen with the RapidNet system, minimized security risks are realized. Fewer personnel are required in the data center, and they are on-site for reduced periods of time.

Environmental Impact

At HellermannTyton, we work hard to be a greener company. In addition to achieving ISO:14001 accreditation for environmental management, we continually assess our performance as a business and the impact our business has on the environment.

The HellermannTyton RapidNet solution carries its very own **environmental credentials** as a pre-terminated system. At the factory, each cable is pre-terminated and cut to its specified length, minimizing bulk cable waste up to 40%. The RapidNet pre-terminated system is a lean, clean, and efficient method of cabling in the data center, streamlining processes, and improving quality. In addition, HellermannTyton thermal transfer labels are wound on recyclable cardboard cores - no plastic or electronic RFID chips to worry about during disposal.

*MTP is a registered trademark of US Conec, LTD.

Aimed at the data center designer, TIA-942 addresses data center infrastructure, site and space layout, cabling infrastructure, tiered responsibility, and environmental considerations.

Site and Space Layout

When allocating space within a data center, it is important to consider the flexibility to accommodate future relocation and expansion requirements. The data center should be designed with consideration toward the space needed now and flexible "white space" for the future which will allow room for additional racks and cabinets.

The TIA-942 standard also recommends the specific functional areas as listed below and in the following illustration. These areas should be designed to anticipate growth and create an environment where equipment can be upgraded with minimal disruption and downtime.

Entrance Room (ER)
Main Distribution Area (MDA)
Equipment Distribution Area (EDA)
Zone Distribution Area (ZDA)
Horizontal Distribution Area (HDA)

Cabling Infrastructure

TIA recommends the use of laser optimized OM3 multimode fiber for any backbone cabling because of its capability to support higher network speeds and bandwidth over longer distances while being more cost effective to implement than single mode fiber.

For horizontal cabling, the TIA-942 standard recommends installing the highest capacity media available to reduce or avoid the need for re-cabling in the future. A high-quality Category 6 system will provide adequate performance in most situations but consideration should be given to the 10 Gb performance of a Category 6 Augmented system (CAT 6A) for the horizontal cabling.

Tiered Reliability

In order to determine specific data center needs, the TIA-942 standard defines data center availability tiers which have been based upon information provided from the Up-Time Institute.

Tier 1 – Basic:
99.671% availability

Tier 2 – Redundant Components:
99.741% availability

Tier 3 – Concurrently Maintainable:
99.982% availability

Tier 4 – Fault Tolerant: 99.995% availability

The standard describes each of the four tiers detailing architectural, security, electrical, mechanical, and telecommunications recommendations. The higher the tier, the higher the availability. Tier descriptions also include information such as raised floor heights, watts per square foot and points of failure.

Environment

The TIA-942 standard makes several environmental considerations. These include fire suppression, humidity levels, operating temperatures and architectural, electrical and mechanical system requirements, some of which are dependent on the desired reliability tier above.

Entrance Room
(ER) The Entrance Room is the location for access provider equipment and demarcation points as well as the interface with campus cabling systems. The entrance room can be located either inside or outside the computer room (the area of the data center that houses data processing equipment) however, for security, the standard recommends that the entrance and computer rooms remain separate. Larger data centers may provide multiple entrance rooms to their providers.

Main Distribution Area
(MDA) The MDA is a centrally-located area that houses the main cross-connect as well as core routers and switches for LAN and SAN infrastructures. The MDA can include a horizontal cross-connect to a nearby EDA (equipment distribution area). Standard compliance requires at least one MDA and also specifies separate racks for fiber and copper.
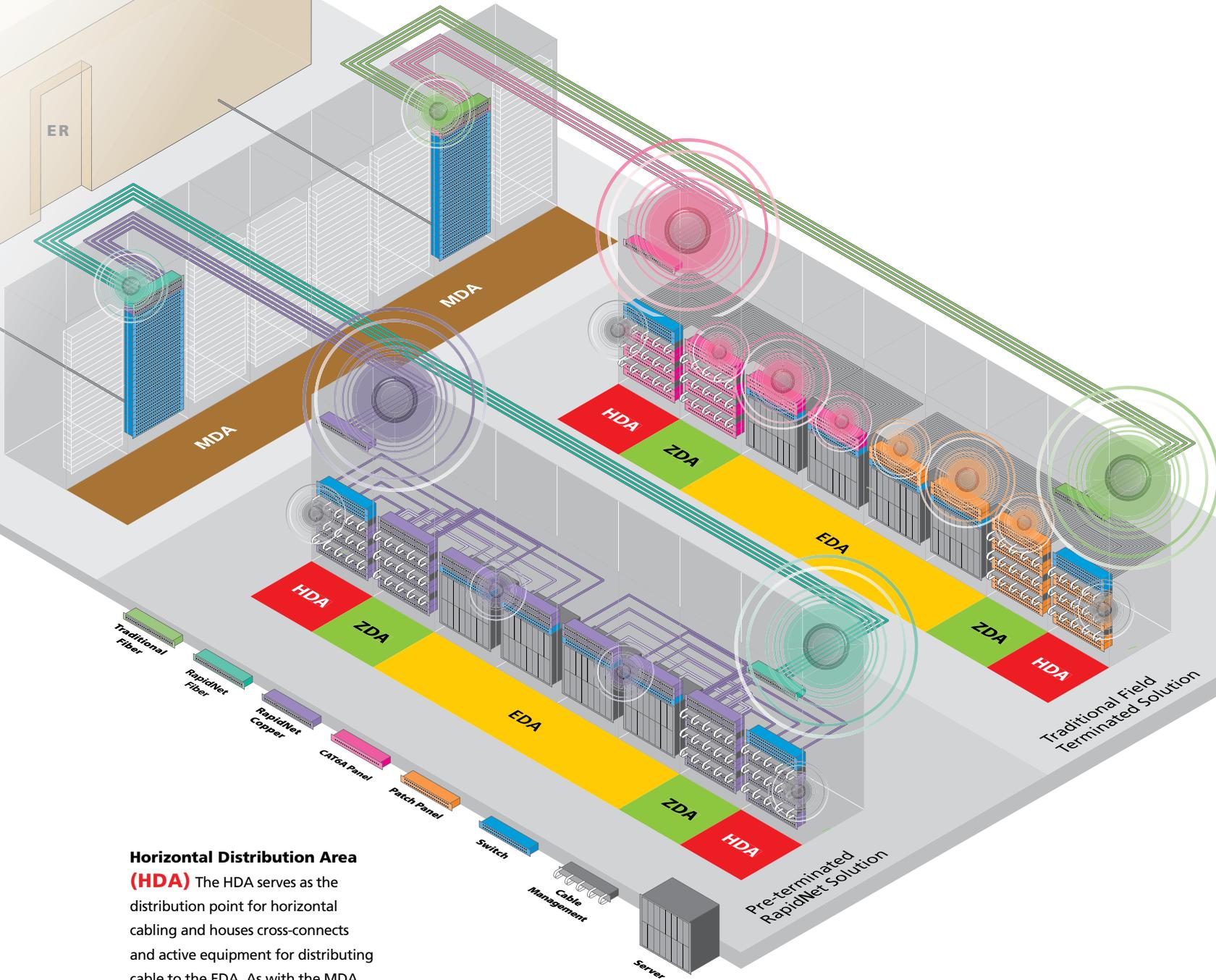
Equipment Distribution Area
(EDA) The EDA is where equipment cabinets and racks house the switches and servers and where the horizontal cabling from the HDA is terminated at patch panels. In the EDA, racks and cabinets should be arranged in a hot aisle/cold aisle configuration to encourage airflow and reduce heat.

Zone Distribution Area
(ZDA) The ZDA sits between the horizontal distribution areas and equipment distribution areas. The ZDA is optional design in the location of a zone outlet or consolidation point in horizontal cabling, accommodating both copper and fiber between the HDA and EDA.

THE DATA CENTER

ER

MDA

MDA

HDA
ZDA

EDA

Traditional
Fiber

RapidNet
Fiber

RapidNet
Copper

CAT6A Panel

Patch Panel

Switch

Cable
Management

Server

HDA
ZDA

EDA

ZDA
HDA

HDA
ZDA

ZDA
HDA

Traditional Field
Terminated Solution

Pre-terminated
RapidNet Solution

Horizontal Distribution Area
(HDA) The HDA serves as the
distribution point for horizontal
cabling and houses cross-connects
and active equipment for distributing
cable to the EDA. As with the MDA,
the standard specifies that fiber and
copper are installed in separate racks.
The standard also recommends locating
switches and patch panels close to
each other to minimize patch cord
lengths. An HDA is limited to 20,000
points/connections and the number of
HDAs in a data center is determined
largely by the size of the data center.

PATCH PANEL

RAPIDNET FIBER

CAT6A PANEL

RAPIDNET CABLE MANAGEMENT

TRADITIONAL CABLE MANAGEMENT

RAPIDNET COPPER

TRADITIONAL FIBER

PRODUCT INDEX

RapidNet® Network Cabling System

RapidNet is HellermannTyton's patented pre-terminated "connect and go" system which offers high performance in copper and fiber solutions within the same footprint. Our pre-terminated solutions do not require on-site termination or certification testing so installations are completed in record time while quality and performance are never compromised. Our RapidNet solutions address the critical issues for cabling installations such as minimizing network downtime and disruption to business, increased quality control, consistent repeatable terminations, enhanced security, dramatically reduced installation time and the human resource required on site to complete a successful project on time and within budget. Cut to customer specified lengths, each individual link is terminated, tested and labeled by HellermannTyton before being delivered to the site.

Material	Packaging Options
Copper	Box up to 75 ft* / Reel from 76-295 ft
Fiber	Box up to 200 ft* / Reel 201+ ft

*Duplicate, shorter lengths packaged in multiples to condense materials on jobsite.

Applications

- Mission Critical Data Centers

- Enterprise Data Centers

- Disaster Recovery

- Storage Area Networks

- Redundancy Planning

- Central Office

- Temporary Networks

- Server Farms

- Cloud Computing

- Colocation Facilities

Copper Cabling Solutions:
CAT 6 UTP, CAT 6 ScTP, CAT 6A F/UTP

Fiber Cabling Solutions:
62.5/125μm (OM1),50/125μm (OM2), 50/125μm (OM3), 50/125μm (OM4) and Single Mode

Whether your copper or fiber solution arrives on site in a box or on a reel, the integrity of the product is never compromised.

Once RapidNet® arrives on site,
all you need to do is "plug it in."
It's that easy!

RNG Solutions

RNG Series RapidNet® Cassette

The cassette is the heart of the RapidNet system, allowing for fast installations and full protection of the terminations. Our new RNG Series RapidNet cassette provides the same protection as the classic style cassette but with product enhancements that include twice the density.

Product Features

- Updated Release Mechanism: a quick-release lever that makes the insertion and release of the cassette easier

- Alignment Guides - ensure the cassette is properly inserted into the panel

- Larger Cassette - allows the higher density options for fiber in a 1U footprint; up to 96 fibers/48 ports in 1U

- Modular Panel - provides copper and fiber solutions in the same footprint
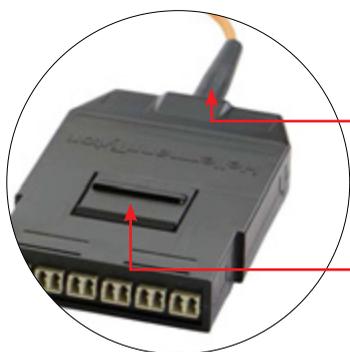
Copper Cassette

Quick-Release Mechanism
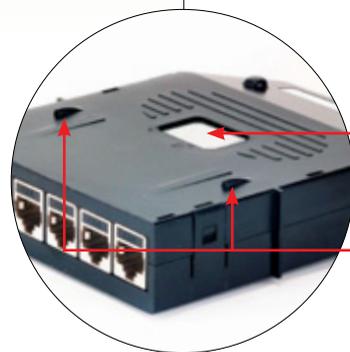
Integral earthing system in the cassette that connects to springs in the panel, applies to CAT 6A F/UTP solution only

Alignment Guides

Fiber Cassette

Grommet provides additional strain-relief for direct connect solutions

Single-Release Lever

Up to 24 fibers / 12 duplex ports

MTP® *(12 fiber connector)* options

Product Features

- New cassette design features single-release lever

- Cassettes are manufactured from high-strength, light-weight thermoplastic material

- Integral grounding system in the cassette connects to springs in the panel to ensure effective grounding of system

- Exceeds ANSI/TIA-568-C Category 6A and ISO/IEC 11801:2002 / Amd 2, Class E_A

- Category 6A cassette loaded with HellermannTyton Category 6A modular jacks

- Alignment guides located on the top of the cassette to ensure the correct orientation in the modular panel (RNGSPP1U)

- Available in lengths from 10 ft - 295 ft

- Permanent Link test results included with all looms/orders

- Made in the USA

RNG Series RapidNet® Category 6A Copper F/UTP Solutions

HellermannTyton's Deca[10] Series RapidNet is a Category 6A solution that offers uncompromised support for 10 Gigabit Ethernet. The shielded construction aids higher performance by eliminating the effect of alien crosstalk and external interference, making this an ideal solution for 10 Gigabit Ethernet applications. RapidNet utilizes a bundled cable with six high-performance Category 6A F/UTP cables bound together with a Kevlar binder. The Category 6A cassette is populated with six HellermannTyton Category 6A shielded modular jacks whose die-cast body fully encloses the PCB and cable terminations. The new cassette design offers an integral grounding system in the cassette that connects to springs in the modular panel. The cassette is equipped with a new single-lever release mechanism that makes the insertion and release of the cassette easier to use.

FIXED		VARIABLE – Select the following					
Prefix	Cable Bundle	Cable Type	Cable Flame Rating	Cable Color	Termination End 1	Termination End 2	Length
RNGC	6	C CAT 6A F/UTP	P Plenum R Riser*	B Blue W White*	C Cassette	C Cassette J Jack-Pair Stagger Right K Jack-Pair Stagger Left L Jack-Stagger Right M Jack-Stagger Left N Jack-Inline	10' - 295'

Pair Stagger Right = 1/2 longest, 3/4 next, 5/6 last and shortest pair.

*Options are available with longer lead times and minimum order requirements.

c(UL)us
LISTED

Example Model Number: ▶

RNGF	6	C	R	W	C	C	65
Prefix	Cable Bundle	Cable Type	Cable Flame Rating	Cable Color	Term. End 1	Term. End 2	Length

RapidNet Category 6A Cassette to Cassette

RapidNet Category 6A Cassette to Jack

RNG Series RapidNet®
Category 6 Copper UTP Solutions

RNG Series RapidNet Category 6 is an ideal solution for high-performance cabling requirements, such as Gigabit Ethernet. RapidNet utilizes a six bundled cable that has been specially designed to eliminate potential alien crosstalk issues and is bound together with a Kevlar binder, ensuring a high-quality, well managed installation. Cut to the customer-specified length at HellermannTyton, each 6 port loom is supplied terminated at both ends to at least one of the patented RapidNet cassettes. Lengths up to 75 feet are supplied in the RapidNet box; lengths from 76-295 feet are supplied on the RapidNet reel.

Product Features

- Positive PSACR over 350 MHz and a typical worst-case margin or 15 dB at 250 MHz

- Exceeds ANSI/TIA-568-C specifications

- Permanent Link test results included with all looms/orders

- Cassettes are manufactured from high-strength, light-weight thermoplastic material

- New cassette design features single-release mechanism

- Alignment guides are located on the top of the cassette to ensure the correct orientation in the modular panel (RNGPP1U)

- Available in lengths from 10 ft - 295 ft

- Made in the USA

FIXED			VARIABLE –Select the following					
Prefix	Cable Bundle		Cable Type	Cable Flame Rating	Cable Color	Termination End 1	Termination End 2	Length
RNGC	6		A CAT 6 UTP	P Plenum R Riser	B Blue W White	C Cassette	C Cassette J Jack-Pair Stagger Right K Jack-Pair Stagger Left L Jack-Stagger Right M Jack-Stagger Left N Jack-Inline P Plug-Pair Stagger Right Q Plug-Pair Stagger Left R Plug-Stagger Right S Plug-Stagger Left T Plug-Inline D Pod O Open	10' - 295'

Example Model Number:

RNGC	6	A	R	W	C	C	65
Prefix	Cable Bundle	Cable Type	Cable Flame Rating	Cable Color	Term. End 1	Term. End 2	Length

c UL us LISTED

Each pre-labeled 6 port cassette snaps easily into the modular panel. Removal of the cassette is just as easy with the new release mechanism.
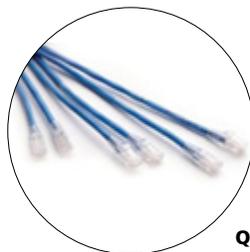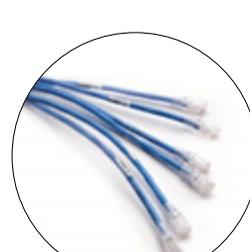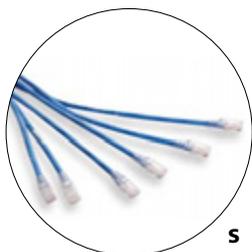
(C)
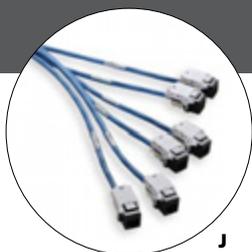
(J)
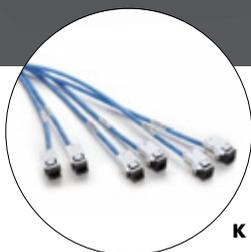
(K)

(L)

(M)

(N)

(P)

(Q)

(R)

(S)

(T)
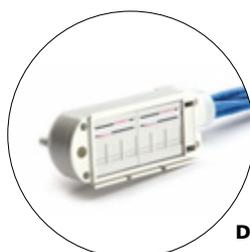
(D)

RapidNet® Category 6 Shielded Copper Solutions

For network cabling applications that require extra security and protection, HellermannTyton offers RapidNet in a fully shielded Category 6 solution. Shielded RapidNet is an ideal solution for high performance cabling requirements, such as Gigabit Ethernet and 10 Gigabit Ethernet. Shielded RapidNet utilizes a bundled cable with 6 high-performance Category 6 ScTP (screened twisted-pair) cables bound together with a Kevlar binder. The cassettes for the shielded solution, which mirror the design of the RN cassettes found in the appendix, have a metal plating applied to both the inside and outside surfaces to provide for proper grounding. This dual layer shield ensures effective screening of emissions and immunity of external electrical noise.

Part No.	Description	Cable Type	Color
RNSC6CMPXXX*	RapidNet Shielded CAT6 ScTP cassette to cassette 6 port loom	Plenum	Blue

* Note: To complete Part No., replace the "X's" with the length required in feet, 10 to 295 feet.

c(UL)us LISTED

Part No.	Description	Port Count
Accessories		
RNSPP1U	RapidNet Shielded Modular Panel - 1U	24 ScTP copper ports
RNSPP1URS	RapidNet Shielded Modular Panel - 1U with Rack-Snap inserts pre-installed	24 ScTP copper ports
RNBLANK	RapidNet Modular Panel Blank Insert	N/A

c(UL)us LISTED

RNSC6CMP
Cassette to Cassette (panel to panel)

RNBLANK
RapidNet Blank Insert
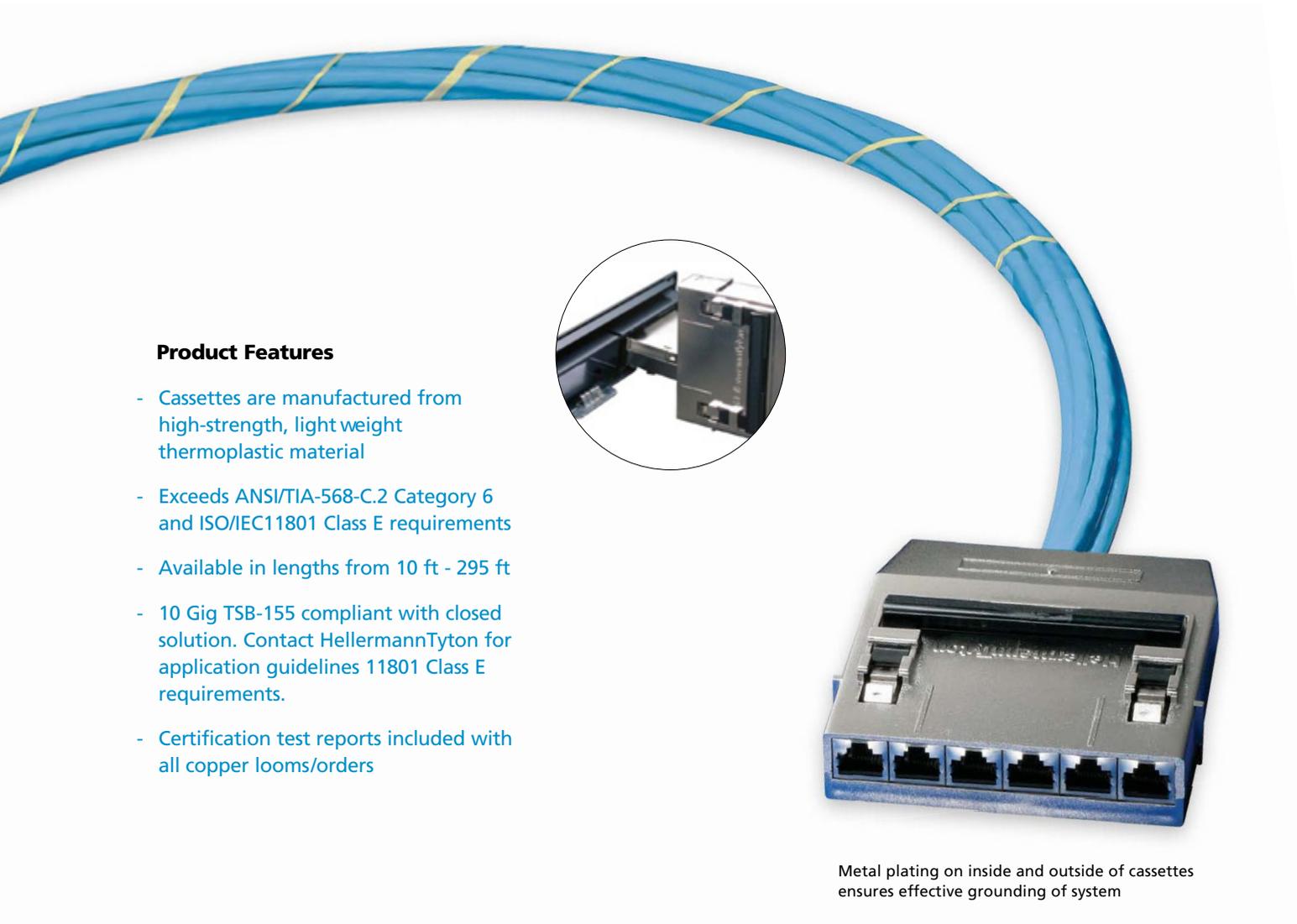
Product Features

- Cassettes are manufactured from high-strength, light weight thermoplastic material

- Exceeds ANSI/TIA-568-C.2 Category 6 and ISO/IEC11801 Class E requirements

- Available in lengths from 10 ft - 295 ft

- 10 Gig TSB-155 compliant with closed solution. Contact HellermannTyton for application guidelines 11801 Class E requirements.

- Certification test reports included with all copper looms/orders

Metal plating on inside and outside of cassettes ensures effective grounding of system

rear view of unit

RNSPP1U
RapidNet Shielded Modular Panel

RNG Series RapidNet®
Fiber Solutions

RNG Series RapidNet Fiber is an excellent solution for high bandwidth needs or extended distances. The new RNG Series cassette offers double the density of our classic version, up to 24 fiber or 12 duplex ports. RapidNet Fiber utilizes a 12 fiber (6 port), single unit plenum (OFNP) distribution cable for LC and SC connections or a 24 fiber (12 port) zip cord loose tube plenum (OFNP) cable for LC connections. Cut to customer specified length at HellermannTyton, each 12 or 6 port loom is supplied terminated at both ends to at least one of the patented RapidNet cassettes. Lengths up to 200 feet are supplied in the RapidNet box; lengths of 201 feet or more are supplied on the RapidNet reel. Each pre-labeled 12 or 6 port fiber cassette snaps easily into the modular panel.

Product Features

- Exceeds ANSI/TIA-568-C.2 and IEEE 802.3ae 10GbE standards

- Certification test reports included with all fiber looms/orders

- Cassettes are manufactured from high-strength, light-weight thermoplastic material

- New cassette design features single-release mechanism

- Alignment guides located on the top of the cassette to ensure the correct orientation in the modular panel (RNGPP1U)

- Modular panel accepts 4 RapidNet cassettes, allowing up to 96 fibers / 48 ports in 1U

FIXED		VARIABLE – Select the following					
Prefix	Cable Type	Cable Flame Rating	Termination End 1	Termination End 2	Cable Count	No. of Pull Kits	Length
RNGF	A = 50/125µm (OM3) Multimode B = 50/125µm (OM2) Multimode C = 62.5/125µm (OM1) Multimode H = 50/125µm (OM4) Multimode D = Single Mode	P = Plenum	L = LC Cassette C = LC APC Cassette S = SC Cassette D = SC APC Cassette	L = LC Cassette (straight thru) J = LC Cassette (REV) K = LC 900µm fanout H = LC 2.0mm fanout C = LC APC Cassette S = SC* Cassette (straight thru) T = SC* Cassette (REV) R = SC* 900µm fanout Q = SC* 2.0mm fanout D = SC APC Cassette	A = 12 B = 24	0 1	10' - 500'

* SC versions only available in 12 fiber cable count.
Options are available with longer lead times and minimum order requirements.
BIF options are available.

c(UL)us
LISTED

Example Model Number:

	RNGF	A	P	L	C	A	1	65
	Prefix	Cable Type	Cable Flame Rating	Term. End. 1	Term. End 2	Cable Count	No. of Pull Kits	Length

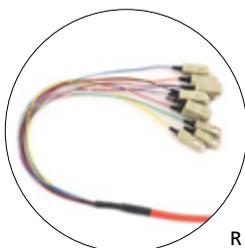LC Cassette

L - J

K

H

SC Cassette

S - T

R

Q

Fiber Options

- 62.5/125µm (OM1) Multimode Fiber

- 50/125µm (OM2) Multimode Fiber

- 50/125µm (OM3) Multimode Fiber

- 50/125µm (OM4) Multimode Fiber

- 8.3/125µm Single Mode Fiber

RNG Series RapidNet® Cassette and MTP™ Fiber Solutions

HellermannTyton offers pre-terminated MTP solutions to the RapidNet system. This modular system utilizes our pre-loaded, RNG Series RapidNet cassette to breakout the MTP connector to LC or SC connector options. MTP trunk and fanout cables complete the "connect and go" solution up to 96 (48 ports) fiber in 1U.

Product Features

- Scalable solution with modular components allowing the flexibility for data network design or upgrades

- Pre-terminated modular cassette offers labor savings with quick deployment

- All cassettes and trunks are factory terminated and 100% tested with test documentation included with products

- Round cable design eliminates preferential bend issues which results in increased density and greater manageability

- All trunks have crossover polarity using TIA-568.B.1-7 Method C

- Modular cassettes easily adapt to the RapidNetRail using zero rack space

- Flexible manufacturing to meet custom specified lengths or fiber counts

- High density ports identified as A and B

FIXED	VARIABLE – Select the following	
Prefix	Cable Type	Cable Count
RNGF	A 50/125μm (OM3) Multimode B 50/125μm (OM2) Multimode C 62.5/125μm (OM1) Multimode D 8.3/125μm Single Mode H 50/25μm (OM4) Multimode	12 24

* For SC connection option add SC to the end of the cable count. Available in 12 fiber count only. MTP is a registered trademark of US Conec Ltd.

Example Model Number: ▶

RNGF	B	24
Prefix	Cable Type	Cable Count

Technical Information:

Compliant with the following standards:

- TIA-568-B.3

- IEC-61754-7

- TIA/EIA-604-5 (FOCIS-5)

- TIA-568.B.1-7 Method C

- IEEE 802.3ae 10GbE Standards

- IEEE 802.3ba 40/100GbE Standards

Insertion Loss: 0.2db Typical, Per mated MTP: 0.5db Max (MM/SM)

Return Loss: Per Fiber: 25db min (MM); 55db min (SM)

MTP to MTP Assembly

MTP to LC Assembly

MTP to SC Assembly

MTP™ Trunks

Fiber optic cable requires unique polarity design consideration to ensure full duplex (two-way) communications. HellermannTyton's cables use a pair fiber flip in the trunk cable to maintain polarity. HellermannTyton provides the simplest fiber optic solution migration path from 40G to 100G with all the extra bandwidth you need without the network re-engineering. Today's technology enables transmission up to 100Gbps over existing fiber infrastructures without the complex network re-engineering if you plan and design the fiber network properly.

FIXED	VARIABLE – Select the following									
Prefix	Cable Count	Fiber Type	Cable Type	Cable Flame Rating	Termination End 1	Termination End 2	Breakout Length	Polarity*	Pull Kits	Length
F	A 12 B 24 C 48 D 72 E 96 F 144	A MM 62.5/125µm (OM1) B MM 50/125µm (OM2) C MM 50/125µm (OM3) D MM 50/125µm (OM4) E Single Mode F MM 50/125µm BIF (OM2) G MM 50/125µm BIF (OM3) H MM 50/125µm BIF (OM4) J Single Mode BIF	C Data Center Cable D Distribution R Ribbon	P Plenum R Riser	A MTP 12 Fiber	A MTP 12 Fiber E LC 2.0mm w/clips G LC 900µm fanout O SC 2.0mm w/clips Q SC 900µm fanout	A .5m B 1m C 1.5m D 2m E N/A	S Straight Thru R Reversed P Pair Reversal*	0 1 2	10' - 999'

* HellermannTyton specifies pair reversal/flipped polarity cables to be used with the RNG Series MTP cassettes to maintain Method C polarity.

| Example Model Number: ▶	**F**	**A**	**C**	**R**	**P**	**A**	**E**	**C**	**R**	**1**	**65**
	Prefix	Cable Count	Fiber Type	Cable Type	Cable Flame Rating	Term. End 1	Term. End 2	Breakout Length	Polarity	No. of Pull Kits	Length

RNG Series Modular Panels and Accessories

All RNG RapidNet Cassettes are designed for a quick-and-easy insertion into the RNG Series Panel. The 1U Modular Panels fits standard 19" racks and accepts four cassettes.

RNG Series Modular Panel
RNGPP1U

Part No.	Description	Port Count
RNGPP1U	RNG Series RapidNet Modular Panel - 1U	24 UTP copper ports 48 LC fiber / 24 ports 96 LC fiber / 48 ports 48 SC fiber / 24 ports
RNGPP1URS	RNG Series RapidNet Modular Panel - 1U*	24 UTP copper ports 48 LC fiber / 24 ports 96 LC fiber / 48 ports 48 SC fiber / 24 ports
RNGSPP1U	RNG Series RapidNet Shielded Modular Panel - 1U	24 F/UTP copper ports
RNGPP2U	RNG Series RapidNet Modular Panel - 2U	48 UTP copper ports 96 LC fiber / 48 ports 192 LC fiber / 96 ports 96 SC fiber / 48 ports
RNGPP2URS	RNG Series RapidNet Modular Panel - 2U*	48 UTP copper ports 96 LC fiber / 48 ports 192 LC fiber / 96 ports 96 SC fiber / 48 ports
RNGBLANK	RNG Series RapidNet Modular Panel Blank Insert	N/A
RNSE1U	RapidNet Secure Enclosure - 1U	N/A
RNRCMU	RapidNet Rear Cable Manager	N/A
TFCM	Front Cable Manager	N/A

* With Rack-Snap inserts pre-installed.

RNG Series Blank Insert
RNGBLANK
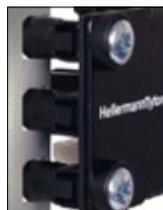
Rack-Snap - snaps into standard square holes in most cabinets.

RNG Series Shielded Modular Panel
RNGSPP1U

RNG Series RapidNet Modular Panel
RNGPP2U

Rear Cable Manager
RNRCMU

Secure Enclosure
RNSE1U

Front Cable Manager
TFCM

The RapidNet Secure Enclosure fits standard 19″ racks and can be used with both RN and RNG Series Solutions. It has a removable lid for access as well as a drop down front.

View from back of unit
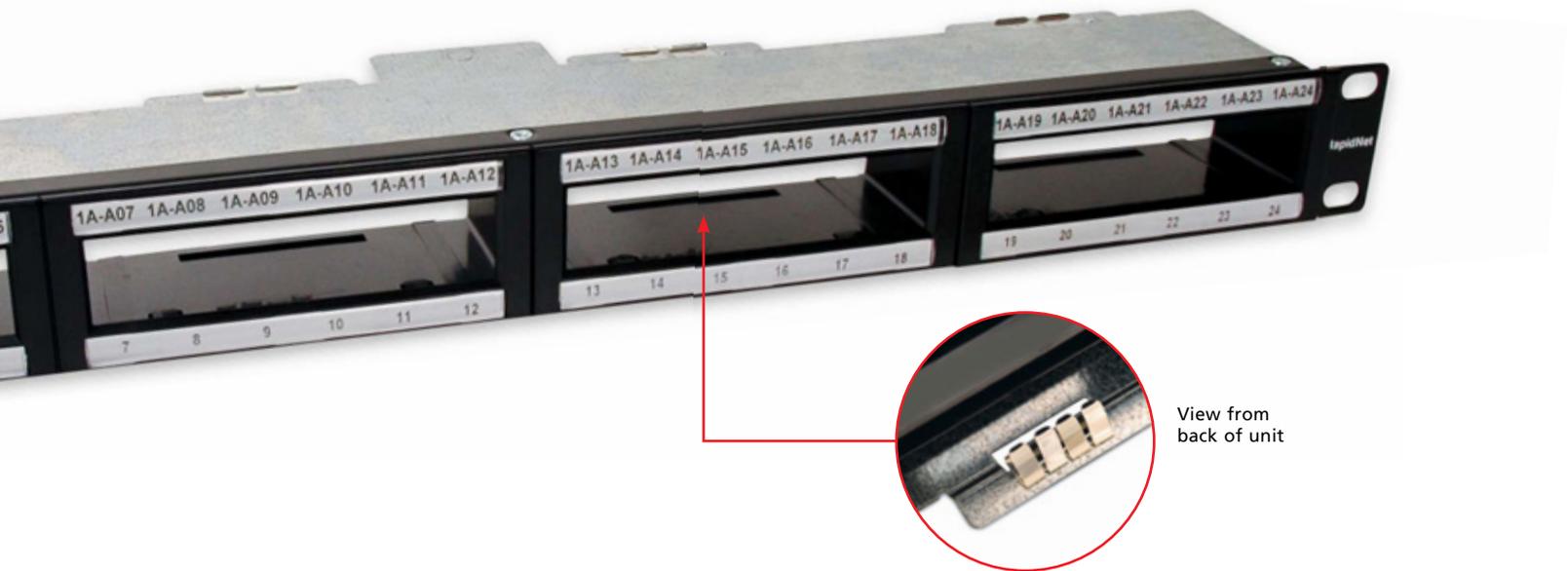
Identification Solutions for RapidNet®

Modular Panel Identification - HellermannTyton offers the following identification solutions for use with RapidNet products. The front identification labels allow users to easily meet TIA/EIA-606-A and TIA-942 administration standards

Part No.	Description	Dimensions	Pkg. Qty.
Ⓐ - Labels for Cassette Identification on rear of panel			
TAG69T1-336	Thermal Transfer Label	2" x .275"	10,000/Roll
TAG69L-789	Laser Label	2" x .275"	5,000/Pack
Ⓑ - Labels for Port Identification on front of panel			
TAG68T1-336	Thermal Transfer Label	3.8" x .275"	10,000/Roll
TAG68L-789	Laser Label	3.8" x .275"	2,500/Pack

LABEL FOR CASSETTE IDENTIFICATION

Ⓐ

Loom 6

Loom 5

1A-F19 1A-F20 1A-F21 1A-F22 1A-F23 1A-F24

1A-F13 1A-F14 1A-F15 1A-F16 1A-F17 1A-F18

1A-F07 1A-F08 1A-F09 1A-F10 1A-F11 1A-F12

1A-F01 1A-F02 1A-F03 1A-F04 1A-F05 1A-F06

1   2   3   4   5   6

7   8   9   10   11   12

13   14   15   16   17   18

19   20   21   22   23   24

LABEL FOR PORT IDENTIFICATION

Ⓑ

Cable Identification

HellermannTyton provides high quality labels to mark the loom and the individual cables. Printable in both thermal transfer and laser formats, the labels come in different lengths to ensure the printed text is overlaminated and protected when placed around the entire bundle of wires or if marking each individual wire.

123456
LOOM 1

PART NUMBER
SALES ORDER NUMBER
LOOM NUMBER

C

Part No.	Description	Dimensions	Pkg. Qty.
C - Labels for Loom Identification			
TAG3T3-100B	Thermal Transfer Label	1" x 1" x 3.75"	3,000/Roll
TAG50L-105	Laser Label	1" x 1" x 3.16"	1,000/Pack
D - Labels for Individual Cable Identification			
TAG22T3-100B	Thermal Transfer Label	1" x .5" x 1.437"	5,000/Roll
TAG63L-105	Laser Label	1" x .5" x 1.437"	2,500/Pack

PORT 6
LOOM 1

PORT 5

PORT 3
LOOM 1

PORT 1
LOOM 1

PORT 2

LOOM NUMBER
PORT NUMBER
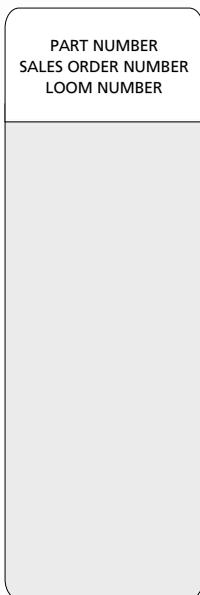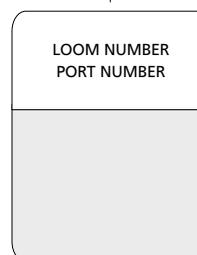
D

Our Category 6 RJ45 jacks have a unique strain relief design to secure the cable. The small cable tie is used to secure the cable and prevents the conductors from becoming loose at the IDC during installation.

RapidNet® Auxiliary Rails

HellermannTyton offers a simplified solution that maximizes data center real estate. The Auxiliary Rail is designed to mount in the rear of most manufacturer server cabinets and is best suited for server cabinets 42" deep or greater to provide a solution using zero rack space. However, due to the versatile mounting design and size options of the rail it may be installed in shallower cabinets or even horizontally above the cabinet.
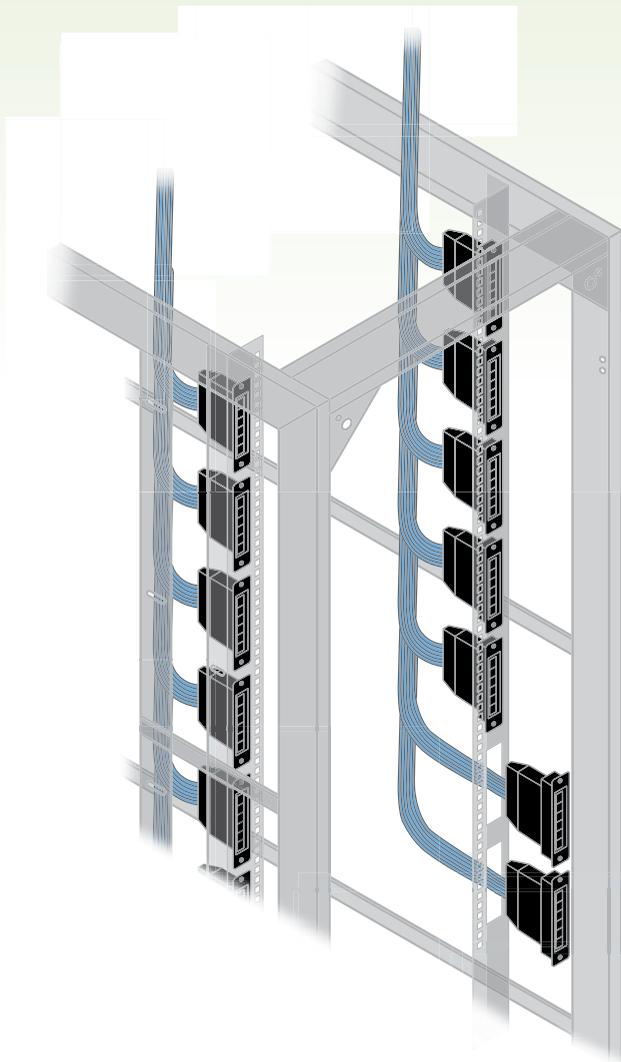
Product Features

- Uses zero rack mount space by incorporating RapidNet within the cabinet space

- Maximizes data center real estate in existing cabinets

- Auxiliary Rail maintains 19" rackable surface for equipment mounting on existing cabinet rails

- Ports where you need them - aligns connectivity with your servers

- Allows for cassette moves, adds and changes without interrupting rack routed equipment in a fully populated cabinet

- Promotes proper cable management

- Available in 4 different sizes for both RNG Series and RN Legacy cassettes - 1 Cassette, 2 Cassettes, 5 Cassettes, and 10 Cassettes
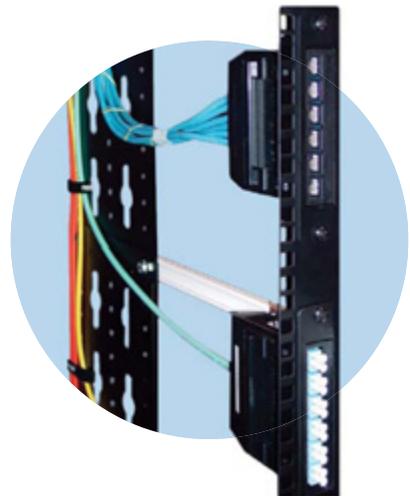
Part No.	Description	Color
RNG Series Auxiliary Rails		
RNGAR01	Auxiliary Rail, accepts 1 RNG Series Cassette	Black
RNGAR02	Auxiliary Rail, accepts 2 RNG Series Cassettes	Black
RNGAR05	Auxiliary Rail, accepts 5 RNG Series Cassettes	Black
RNGAR10	Auxiliary Rail, accepts 10 RNG Series Cassettes	Black
RNGARINSERT*	Auxiliary Rail Insert for RNG Series Cassettes	Black
RN Legacy Auxiliary Rails*		
RNAR01	Auxiliary Rail, accepts 1 RN Legacy Cassette	Black
RNAR02	Auxiliary Rail, accepts 2 RN Legacy Cassettes	Black
RNAR05	Auxiliary Rail, accepts 5 RN Legacy Cassettes	Black
RNAR10	Auxiliary Rail, accepts 10 RN Legacy Cassettes	Black
RNARINSERT*	Insert for RN Legacy Solutions Auxiliary Rails	Black

 * Includes 1 RapidNet Shroud, 2 Clear ID Windows, Labels 1-60, 10 Blank Labels.

** Legacy cassettes can be found in the appendix.

Auxiliary Rails ship without shroud assembly (plastic insert) to facilitate cabinet mounting. Order the appropriate number of RNGARINSERT or RNARINSERT to complete Auxiliary Rail to accept RapidNet cassettes. Auxiliary Rail is designed to support mounting of RapidNet cassettes only. No other equipment, active or otherwise, should be mounted to the Auxiliary Rails.

Raised Floor Enclosure

HellermannTyton's Raised Floor Enclosure serves as a distribution point for zone cabling for low voltage cabling under raised floors of 8″ deep or more and is UL approved for use in air handling spaces. It can be used with traditional patch panel applications as well as copper and fiber RapidNet solutions. The enclosure is supported by the raised floor support brackets and uses the 2′ x 2′ floor tile as a cover. Designed to store and secure rack mount equipment, the enclosure is equipped with firestop foam sealing kits to seal the two openings. Firestop blocks accommodate single or bundled cable.

Part No.	Description	Pkg. Qty.
HTZB2X2	2′ x 2′ Raised Floor Enclosure	1

Product Features

- Designed to fit into 2′ x 2′ raised floor grids, 8″ depth

- Holds two 2RU (4RU) racks

- Inside mounting brackets for 19″ EIA rack mounting

- Accepts #12-24 equipment mounting screws (included with all HellermannTyton patch panels)

- Firestop foam kits/blocks to seal cable access ports

- Load capacity equals 85 lbs. of equipment total

- Indoor use only, environmentally controlled areas

- Seal provided on top flange to seal floor tile

Includes

- 4 raised floor support brackets

- 4 leveler bolts

- 2 grounding screws to outside of box

Firestop block adds protection to network wiring.
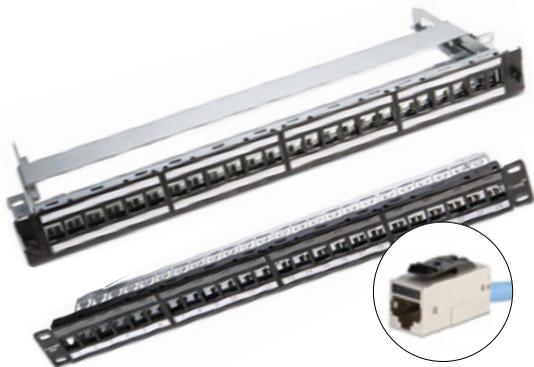
Category 6A Shielded Patch Panels

HellermannTyton's Category 6A shielded patch panels accept HellermannTyton Shielded Category 6A jacks to complete a shielded system solution. The panel provides a choice of ground stud positions on the integral grounding bar and includes rear cable management.

Use with Part No. RJ45FC6AS - Category 6A Shielded Modular Jack (see photo)

Category 6 Universal Patch Panels

Category 6 - 48 Port 1U Patch Panel

Modular Patch Panels

Patch Panels

HellermannTyton's Deca[10] Series is a Category 6A solution that offers uncompromised support for 10 Gigabit Ethernet. GigaBand Category 6 patch panels provide unbeatable Category 6 performance. With positive PowerSum ACR up to 400 MHz, Category 6 patch panels exceed the latest Category 6 specifications covering hardware, link and channel performance. The GigaBand line of panels is designed to support all existing and future applications. These patch panels also offer backward compatible performance, ensuring that they are suitable for use in existing, as well as new system installations.

Part No.	Description	Pkg. Qty.
Category 6A Shielded Patch Panels		
PP24MOD6AS	Category 6A - 1U 24 Port Shielded Patch Panel	1
PP24SMOD6AS	Category 6A - 1U 24 Port Sliding Shielded Patch Panel	1
Category 6 Universal Patch Panels		
PP110C624	Category 6 - 1U 24 Port 110 Universal Patch Panel	1
PP110C648	Category 6 - 1U 48 Port 110 Universal Patch Panel	1
Category 6 and 5e - 48 Port 1U Patch Panel		
PP110C6481U	Category 6 - 1U 48 Port Patch Panel	1
Modular Patch Panels		
P108-24-MOD1U*	Blank Modular Patch Panel - 24 Port - 1U	1
P108-24-MOD	Blank Modular Patch Panel - 24 Port - 2U	1
P108-48-MOD	Blank Modular Patch Panel -48 Port - 3U	1

The modular patch panel is designed to accept HellermannTyton modular jacks.

*The 1U modular panel allows for increased density in one rack space. The panel also makes patch cord insertion and removal easy by having jacks mounted sideways in the panel.

Use with Part No.RJ45FC6–BLK Category 6 Modular Jack (see photo)

Copper Patch Cords

Designed to maintain signal integrity, HellermannTyton offers a full line of high quality patch cords. These products are critical to the performance of the entire system. All patch cords comply with industry standards including ANSI/TIA-568-C.2

Available Patch Cord Colors:

BLU YEL GRN RED BLK GRY W

Part No.	Description	Pkg. Qty.
PCS6AXY	Category 6A Shielded Patch Cords	1
PC6XYSC	Category 6 Patch Cords	1
PCS6XY	Category 6 Shielded Patch Cords	1

Replace "X" in the part number with the following letters for the desired color: X = BLU (blue), YEL (yellow), GRN (green), RED (red), GRY (gray), W (white), BLK (black).

Replace "Y" in the part number with the following numbers for the desired length: 3 = 3 feet, 5 = 5 feet, 7 = 7 feet, 10 = 10 feet, 14 = 14 feet, 20 = 20 feet.

Category 6 Patch Cords
Category 6 patch cords offer a slim-line boot. This molded strain-relief boot helps prevent tangling and excessive bending while reducing the stress on the cable.

Category 6A Shielded Patch Cords
Category 6A shielded patch cords feature foil shielding to ensure signal integrity and a strain-relief boot that helps prevent tangling and excessive bending while reducing the stress on the cable.

Category 6 Shielded Patch Cords
Category 6 shielded patch cords feature foil shielding to ensure signal integrity and a strain-relief boot and excessive bending while reducing the stress on the cable.

FA1LCSC

Duplex Multimode Fiber Assembly
Typical insertion loss is less than .5dB per connection.

FA1SMSCSC

Simplex Single Mode Fiber Assembly
Typical insertion loss is less than .25dB per connection.
All fiber assemblies are made from 8.3/125µm cable.

Fiber Optic Cable Assemblies

For fiber patching requirements, HellermannTyton fiber optic cable assemblies are available in various lengths with industry standard SC and LC connectors made with ceramic ferrules. Each assembly is individually tested for insertion loss and return loss. Bend Insensitive Fiber Assemblies and OM4 available upon request.

Part No.	Description	Pkg. Qty.
Duplex Multimode Fiber Assembly		
FAXLCLC	LC - LC Duplex MM 62.5/125µm (OM1) Fiber Assembly	1
FAXLCSC	LC - SC Duplex MM 62.5/125µm (OM1) Fiber Assembly	1
FAXSCSC	SC - SC Duplex MM 62.5/125µm (OM1) Fiber Assembly	1
FAXLCLC50	LC - LC Duplex MM 50/125µm (OM2) Fiber Assembly	1
FAXLCSC50	LC - SC Duplex MM 50/125µm (OM2) Fiber Assembly	1
FAXSCSC50	SC - SC Duplex MM 50/125µm (OM2) Fiber Assembly	1
FAXLCLC10G	LC - LC Duplex MM 50/125µm (OM3) Fiber Assembly	1
FAXLCSC10G	LC - SC Duplex MM 50/125µm (OM3) Fiber Assembly	1
Simplex Single Mode Fiber Assembly		
FAXSMLCLC	LC - LC Simplex Single Mode Fiber Assembly	1
FAXSMLCSC	LC - SC Simplex Single Mode Fiber Assembly	1
FAXSMSCSC	SC - SC Simplex Single Mode Fiber Assembly	1
FAXSMALCLC	LC - LC Simplex Single Mode APC Polish Fiber Assembly	1
FAXSMASCSC	SC - SC Simplex Single Mode APC Polish Fiber Assembly	1

Replace "X" in the part number with the following numbers for the desired length: 1 = 1 meter, 2 = 2 meters, 3 = 3 meters for our standard product offering. Additional lengths available with lead times, replace "X" in the part number with the following numbers for the desired length: 4 = 4 meters, 5 = 5 meters, 7 = 7 meters, 10 = 10 meters, 15 = 15 meters, 20 = 20 meters, 25 = 25 meters.

Grip Ties

The Grip Tie is a low profile, one piece fastening device. Constructed of polyethylene hook and nylon loop and laminated back to back, the Grip Tie features quick release for repetitive access to cable and wire. It can be opened and closed numerous times without failure. The Grip Tie is reusable, adjustable, releaseable, and easy to install. The rolls are ideal for job site applications where desired lengths can be cut on the spot. The plenum rated Grip Tie is UL Listed in accordance to the NEC regulation and has been tested to meet the UL94V-2 flame rating.

Part No.	Width	Length	Color	Pkg. Qty.
Standard Grip Ties				
GT.75X1800	.75"	180"	Black	1
GT.75X1804	.75"	180"	Blue	1
GT.75X18010	.75"	180"	White	1
GT.75X6000	.75"	600"	Black	1
GT.75X9000	.75"	900"	Black	1
Grip Ties for Plenum Applications				
GT.75X180MV2	.75"	180"	Maroon	1

Standard Grip Tie

Grip Ties for
Plenum Applications

FERM18S

FERM36S
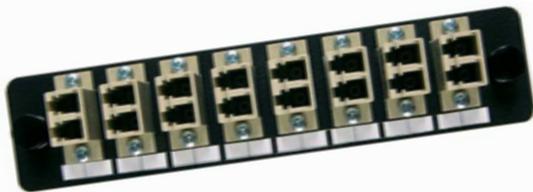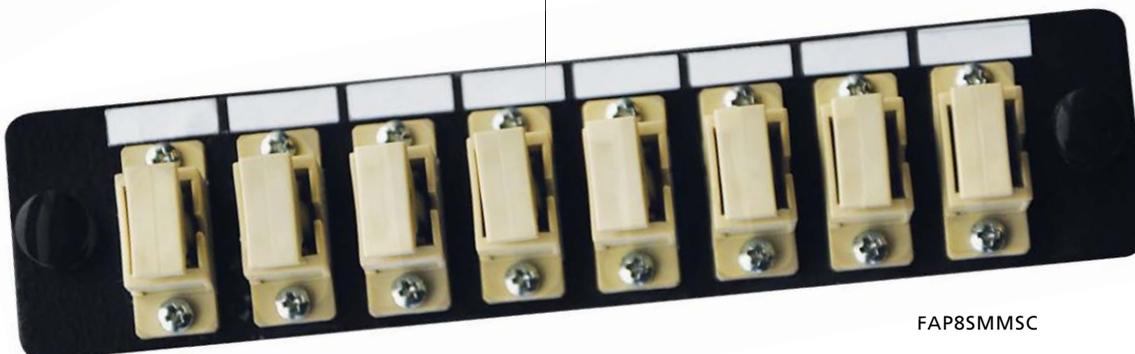
FAP8DMMLC

Fiber Enclosures

HellermannTyton's rack mount fiber enclosures are the ideal direct termination and splice solution of LAN applications and for use on the connector end of RapidNet fiber cassette to connector looms. Enclosures shown are capable of supporting up to 96 fibers. While offering easy-to-use front slide-out trays for easy access to connections, enclosures are equipped with cable management and cable routing accessories to limit bend radius and add strain relief control. Enclosures easily fit into 19" or 23" racks.

Part No.	Description	Qty. Needed
LC		
FERM18S	48 Fibers in 1U - accepts 3 adapter panels and 1 FERMST	1
FAP8DMMLC	48 Fibers in 1U - panel with 8 duplex LC MM/SM adapters	3
FERM36S	96 Fibers in 2U - accepts 6 adapters panels and 2 FERMST	1
FAP8DMMLC	96 Fibers in 2U - panel with 8 duplex LC MM/SC adapters	6
SC		
FERM18S	24 Fibers in 1U - accepts 3 adapter panels and 1 FERMST	1
FAP8SMMSC	24 Fibers in 1U - panel with 8 simplex SC MM/SM adapters	3
FERM36S	48 Fibers in 2U - accepts 6 adapter panels and 2 FERMST	1
FAP8SMMSC	48 Fibers in 2U - panel with 8 simplex SC MM/SM adapters	6

FAP8SMMSC

TagPrint™ Pro Professional Label Creation Software

TagPrint™ Pro label creation and printing software is powerful, multi-functional, and extremely easy to use. Created to provide solutions for telecom identification, TagPrint™ Pro speeds production and offers many options for a wide variety of labeling requirements. "What You See Is What You Get" (WYSIWYG) label creation and the ability to open and print direct from an Excel database make this perfect for managing and printing the new TIA-606 or any labeling format. Print one or two labels or labels for thousands of drops. Tagprint Pro also prints barcode, graphic images, labels set and wire lists and can be utilized with HellermannTyton's wide array of label options including laser, ink jet, dot matrix and thermal transfer printable labels.

Article No.	Part No.	Type	System Requirements	Pkg. Qty.
556-00022	556-00022	TAGPRINTPRO Version 2.0 - Full	Windows 98se, ME, NT4.0, 2000 or XP, Windows 7	1

Use "Part No." for ordering and "Type" for specification purposes.

TT230SM Printer

HellermannTyton's TT230SM thermal transfer printer is the next generation of printer available for small-to-medium volume users looking for an easy-to-use and functional thermal transfer printer. The TT230SM prints to a wide variety of materials including all of HellermannTyton labels and ShrinkTrak. The TT230SM also is Ethernet network ready, which gives the user options on placing the unit away from the host computer. The TT230SM comes with a label holder (caddy) for loading large reels behind the printer for easy dispensing and printing. There also is an optional carrying case that can be used to safely transport the printer to remote job sites.

Article No.	Part No.	Type	Description	Pkg. Qty.
556-00230	556-00230	TT230SM	TT230SM Printer	1
556-00235*	556-00235	Label Holder	Replacement Label Caddy	1
556-00236	556-00236	TT230BATTERY	Battery pack for TT230SM	1
556-00231	556-00231	CASE230SM	Optional Carrying Case	1
556-00238	556-00238	LG CASE TT230SM	Large optional carrying case	1

Use "Part No." for ordering and "Type" for specification purposes.

*Caddy 556-00235 comes automatically FREE with each printer purchase

TT230SM Thermal Transfer Ribbons

Due to various settings in printers, as well as the different label types and variations in ribbons, each material must have its own specific ribbon. For instance, when ordering HellermannTyton 822 material labels, please specify and use the ribbon that is configured for the 822 stock. In this case, it would be the TT822 ribbon. In addition, this ribbon must be used to have the Underwriters Laboratories recognized mark on the 822 material.

Article No.	Part No.	Type	Color	Label Material								Width		Length	
				Paper	100B	250	795	822	822C	1500	ShrinkTrak	in.	mm	ft.	m
556-00145	TT822OUTSM	TT822OUTSM	Black	•	(1)	•	• (1,2)	• (1,2)	•	•	• (4)	4.33″	110	242′	74
556-00169	TT100OUTSM	TT100OUTSM	Black	•	† (1)	†		• (1)			• (4)	4.33″	110	242′	74
556-00190	556-00190	TTWHITEOUTSM	White							•	• (4)	4.33″	110	229′	70

Use "Part No." for ordering and "Type" for specification purposes.

• = Recommended ribbon

† = Acceptable ribbon alternative

(1) UL Recognized material / ribbon combination with HellermannTyton thermal transfer printers

(2) CSA Normal Use approved material / ribbon combination with HellermannTyton thermal transfer printers

(4) Meets ASM-DTL-23053/5 Class I & III, SAE-AS81531 for print performance

Thermal Transfer Label Materials

HellermannTyton provides a wide variety of thermal transfer label stocks to fit most applications. Materials can be used in applications including high-heat, wire-wrapping and long-term indelible marking. A mix of sizes and types allows for stock solutions to most labeling needs. For instance, HellermannTyton provides thermal transfer labels in a high-performance white polyester. HellermannTyton 822 material provides a high-quality mark when used with the TT822 ribbon and the TTM430 printer, or compatible. If the 822 material is used in combination with the TT822 ribbon, the TTM430 printer or specific recommended printers, a UL Recognized mark can be achieved.

Label Material	100B	250	882C	336	795	799	822
Material Name	100 Clear Vinyl	Comformable Woven Cloth	Clear Polyester	White Polyester	Metalized Polyester	Metalized Polyester	White Polyester
Printer	Thermal Transfer Desktop	Thermal Transfer Desktop	Thermal Transfer Desktop	Thermal Transfer Desktop & Spirit Handheld	Thermal Transfer Desktop	Spirit Portable Printer	Thermal Transfer Desktop
Topcoat	Specially formulated for superb ink anchorage	Specially formulated for superb ink anchorage	Specially formulated for superb ink anchorage	Specially formulated for superb ink anchorage	Specially formulated for superb ink anchorage	Specially formulated for superb ink anchorage	Specially formulated for superb ink anchorage
Liner	50#	55#	50#	50#	50#	50#	50#
Temperature Range	-50°F to +200°F (-46°C to +93°C)	-40°F to +250°F (-40°C to +121°C)	-40°F to +250°F (-40°C to +121°C)	-40°F to +300°F (-40°C to +149°C)	-40°F to +300°F (-40°C to +149°C)	-40°F to +300°F (-40°C to +149°C)	-20°F to +300°F (-29°C to +149°C)
Adhesive Type	Permanent pressure sensitive acrylic	Permanent pressure sensitive acrylic	Permanent pressure sensitive acrylic	Permanent pressure sensitive acrylic	Permanent pressure sensitive acrylic	Permanent pressure sensitive acrylic	Permanent pressure sensitive acrylic
Application	For wires, cable and other conformable surfaces	For wrapping and flagging on small gauge wires	For flat or slightly curved surfaces only	For flat or slightly curved surfaces only	For flat or slightly curved surfaces only	For flat or slightly curved surfaces only	For flat or slightly curved surfaces only
Certifications	UL			UL	UL	UL	UL
Specifications	Use with TT822, TT100, MH18396 and TTHST Series ribbons	N/A	N/A	MH18396	Use with 822OUT for UL and CSA recognition MH18396 & 106410	Use HHIGR for UL recognition MH18396	Use with TT822 type ribbon for UL and CSA recognition MH18396 and 106410
Ribbon	TT100OUTSM TT100OUT TT822OUT TT822OUTSM TTHSTOUT TTHSTOUTSM	TT100OUTSM TT100OUT	TT822OUT TT822OUTSM	TT822OUT* TT822OUTSM* HHIGR	TT822OUT** TT822OUTSM**	HHIGR	Use with TT822 type ribbon for UL and CSA recognition
Notes	For indoor and outdoor use	N/A	N/A	N/A	**Use the TT822 type ribbon for UL & CSA recognition on all HellermannTyton desktop thermal transfer printers	UL recognition for desktop TT printers only	Use the TT822 type Ribbon for UL and CSA recognition on all HellermannTyton desktop thermal transfer printers

Spirit® 2100 Portable Printing System

HellermannTyton's Spirit® 2100 portable printing system is easy to use and features "What You See Is What You Get" (WYSIWYG) label design and creation on a LCD screen that shows the outline of the label. Just type in the text (which is displayed on the screen), choose from several print sizes, and press the print button. It's that simple! The printer automatically detects the label and determines the proper size template for easy editing. The Spirit 2100 provides fast, high quality, thermal transfer printing for permanent and highly legible label printing. The Spirit 2100 prints on many different types of label materials for wire, cable, and component marking. Self-laminating, white and metalized polyester materials are available for use with the Spirit system.

TECHNICAL DATA

Prinhead	203 dpi Thermal Transfer
Battery Charger	NiMh
Weight	2.5 lbs.
Shipping Weight	7.5 lbs.
Max Label Width	2.0"
Memory	68k SRAM 128 Program Memory 256k Non-Volitile Storage
Chargers	120V, 130V, 230V or 100V applications
LCD Screen	2.0" x 1.5"
Operating Temp.	+40°F to +122°F (+4°C to +50°C)
Storage Temp.	-30°F to +160°F (-34°C to +71°C)

Article No.	Part No.	Type	Description	Pkg. Qty.
557-00085	HT2100	HT2100	Portable Printing System includes: Spirit 2100 printer, HT2100 rechargeable battery and charger, ribbon cartridge, TAGH73-336, printer manual, hard-shell case, cleaning card, cleaning pen and Spiritlink computer interface software (interface software cable sold separately)	1

Use "Part No." for ordering and "Type" for specification purposes.

Product Features

- "What You See Is What You Get" (WYSIWYG) label design and creation.

- Easily change text sizes or alignment to complete label appearance

- Automatically centers text during label editing process

- Easily import graphic images into the label design

- Print with popular bar code symbologies including Code 39, Code 128 and EAN

- Vertical print option for patch panels, wall plates, terminal blocks and wire markers

- Print serial numbers on labels with the "serial" text type. Spirit 2100 will automatically remember the last serial number printed the next time the saved label is used.

- Ribbon is longer than industry standard resulting in fewer ribbon change-overs

- Battery power and convenient hand strap makes the Spirit 2100 extremely portable. AC adapter also available.

- Label sizes and user interface can be upgraded in the field

- Auto "fill" feature to copy one line of text to all other lines on the label

- Download data files from Excel and other Windows compatible databases

- Edit logging feature will keep track of printed labels and download information to PC

Label Loading

Each roll of labels is loaded onto a reusable spindle. Simply drop the label roll into the printer, pull the labels over the top, (like loading film into a camera) and close the cover. No need to mechanically feed and align the labels.
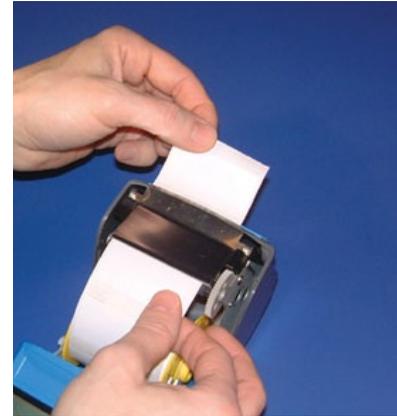
The ribbon is supplied in a self-contained cartridge for easy loading. One ribbon per package.

Article No.	Part No.	Type	Description	Pkg. Qty.
591-00076	BC10	BC10	Battery Charger	1
557-00002	2100CASE	2100CASE	Spirit Carrying Case Replacement	1
557-00004	2100CABLE	2100CABLE	SpiritLink Interface Cable	1
557-00003	RBP1	RBP1	Battery Pack	1
557-00005	2100PEN	2100PEN	Cleaning Pen	1
557-00006	TS3003039	Spindle Roll	Spirit Label Spindle Roll Replacement	1
557-00007	TS3003040	Spindle Cap	Spirit Label Spindle Cap Replacement	1
557-00008	2100CARD	2100CARD	Printhead Cleaning Card	1
557-00009*	HHIGR	HHIGR	Replacement Ribbon Cartridge (2″ x 2.5″)	131 ft (40m)
557-00092	HHHST	HHHST	Replacement Ribbon Cartridge (2″ x 2.5″)	131 ft (40m)
557-00075**	HHDTH	HHDTH	Replacement Durattach Ribbon (2″ x 2.5″)	131 ft (40m)

Use "Part No." for ordering and "Type" for specification purposes.
Dimensions are approximate and subject to technical changes.

* HHIGR works on all materials

** HHDTH can only be used with label materials that have the DTH extension.
This provides superior performance to most chemicals and solvents.

Spirit® 2100 Portable Printing System Labels

Article No.	Part No.	Type	Material	Color	Width (W)		Length of Writable Area (H)		Length of Label (H2)		Liner Width		Pkg. Qty.
					in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	
Self-Laminating Vinyl													
557-00011	TAGH2-100	TAGH2	Type 100, Self-Laminating Vinyl (A)	White	.5"	12.7	.5"	12.7	1.435"	36.44	.875"	22.23	250
557-00013	TAGH3-100	TAGH3	Type 100, Self-Laminating Vinyl (A)	White	1.0"	25.4	1.0"	25.4	3.75"	95.25	1.125"	28.58	100
557-00015	TAGH6-100	TAGH6	Type 100, Self-Laminating Vinyl (A)	White	2.0"	50.8	1.0"	25.4	3.75"	95.25	2.125"	53.98	100
557-00018	TAGH9-100	TAGH9	Type 100, Self-Laminating Vinyl (A)	White	1.0"	25.4	.75"	19.05	2.25"	57.15	1.125"	28.58	100
557-00020	TAGH10-100	TAGH10	Type 100, Self-Laminating Vinyl (A)	White	2.0"	50.8	.75"	19.05	2.25"	57.15	2.125"	53.98	100
557-00021	TAGH22-100	TAGH22	Type 100, Self-Laminating Vinyl (A)	White	1.0"	25.4	.5"	12.7	1.435"	36.44	1.125"	28.58	250
557-00026	TAGH26-100	TAGH26	Type 100, Self-Laminating Vinyl (A)	White	.5"	12.7	.35"	8.89	.75"	19.05	.875"	22.23	500
557-00027	TAGH51-100	TAGH51	Type 100, Self-Laminating Vinyl (A)	White	1.0"	25.4	.35"	8.89	.75"	19.05	1.125"	28.58	500
557-00028	TAGH95-100	TAGH95	Type 100, Self-Laminating Vinyl (A)	White	1.5"	38.1	1.0"	25.4	3.75"	95.25	1.625"	41.28	100
Polyester													
557-00037	TAGH12-336	TAGH12	Type 336, Polyester (B)	White	1.25"	31.75	.375"	9.525	–	–	1.375"	34.93	500
557-00076	TAGH13-336	TAGH13	Type 336, Polyester (B)	White	.75"	19.1	.25"	6.35	–	–	.875"	22.23	750
557-00039	TAGH14-336	TAGH14	Type 336, Polyester (B)	White	1.0"	25.4	.375"	9.53	–	–	1.125"	28.58	500
557-00040	TAGH15-336	TAGH15	Type 336, Polyester (B)	White	1.0"	25.4	.5"	12.7	–	–	1.125"	28.58	500
557-00042	TAGH16-336	TAGH16	Type 336, Polyester (B)	White	.9"	22.9	.25"	6.35	–	–	1.025"	26.04	750
557-00043	TAGH17-336	TAGH17	Type 336, Polyester (B)	White	1.5"	38.1	.25"	6.35	–	–	1.625"	41.28	750
557-00044	TAGH27-336	TAGH27	Type 336, Polyester (B)	White	1.5"	38.1	.75"	19.05	–	–	1.625"	41.28	500
557-00045	TAGH35-336	TAGH35	Type 336, Polyester (B)	White	2.0"	50.8	.375"	9.53	–	–	2.125"	53.98	500
557-00046	TAGH48-336	TAGH48	Type 336, Polyester (B)	White	.8"	20.32	.5"	12.7	–	–	.925"	23.50	500
557-00048	TAGH71-336	TAGH71	Type 336, Polyester (B)	White	.5"	12.7	.435"	11.05	–	–	.875"	22.23	500
557-00049	TAGH73-336	TAGH73	Type 336, Polyester (B)	White	2.0"	50.8	1.0"	25.4	–	–	2.125"	53.98	250
557-00055	TAGH86-336	TAGH86	Type 336, Polyester (B)	White	2.0"	50.8	.25"	6.35	–	–	2.125"	53.98	750
557-00057	TAGH88-336	TAGH88	Type 336, Polyester (B)	White	1.5"	38.1	.375"	9.525	–	–	1.625"	41.28	500
557-00059	TAGH90-336	TAGH90	Type 336, Polyester (B)	White	1.5"	38.1	.5"	12.7	–	–	1.625"	41.28	500
557-00061	TAGH92-336	TAGH92	Type 336, Polyester (B)	White	1.0"	25.4	.75"	19.05	–	–	2.125"	53.98	500
557-00062	TAGH94-336	TAGH94	Type 336, Polyester (B)	White	1.5"	38.1	1.25"	3.175	–	–	1.625"	41.28	250
557-00063	TAGHPP-336	TAGHPP	Type 336, Polyester (B)	White	.875"	22.225	.333"	8.46	–	–	.874"	22.20	500
591-00065	TAGH97-336	TAGH97	Type 336, Polyester (B)	White	1.875"	47.625	.25"	6.35	–	–	2.0"	50.8	750
591-00117	TAGH98-336	TAGH98	Type 336, Polyester (B)	White	1.9"	48.26	.375"	9.525	–	–	2.025"	51.435	250
557-00066	TAGHTP-336	TAGHTP	Type 336, Polyester (B)	White	.333"	8.46	.444"	11.28	–	–	1.125"	28.575	50
557-00032	TAGH73-799	TAGH73	Type 799, Polyester (B)	Silver**	2.0"	50.8	1.0"	25.4	–	–	2.125"	53.975	250
557-00033	TAGH75-799	TAGH75	Type 799, Polyester (B)	Silver**	2.0"	50.8	.625"	15.875	–	–	2.125"	53.975	500
557-00036	TAGH94-799	TAGH94	Type 799, Polyester (B)	Silver**	1.5"	38.1	1.25"	31.75	–	–	1.625"	41.275	250

*Note: Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

** Silver is a matte surface.
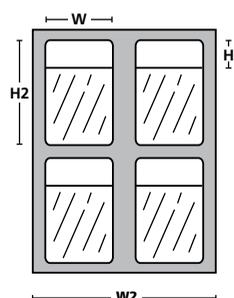
A Self-Laminating
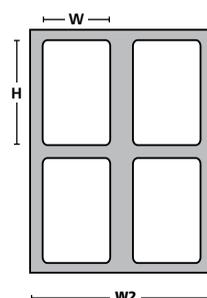
B Blank

Thermal Transfer Labels

HellermannTyton's thermal transfer labels provide superb print quality on flat surfaces such as racks, patch panels, control boxes, grounding busbars and firestop locations. When used with HellermannTyton thermal transfer ribbons, the label and printed mark is resistant to UV exposure and will not fade when exposed to typical UV lighting. These labels meet all the physical and performance requirements of the TIA-606 labeling standard.

Article No.	Part No.	Type	Width (W)		Height (H)		Vertical Repeat (H2)		Horizontal Repeat (W2)		Width of Liner (W3)		Labels per row	Pkg. Qty.
			in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)		
336 Material														
596-00026	TAG96T1-336	TAG96T1	1.875"	(47.6)	.25"	(6.35)	.375"	(9.35)	1.875"	(47.6)	2.0"	(50.8)	1	5000
596-00041	TAG69T1-336	TAG69T1	2.0"	(50.8)	.275"	(6.98)	.5"	(12.7)	2.0"	(50.8)	2.125"	(54.0)	1	10000
596-00040	TAG68T1-336	TAG68T1	3.8"	(96.5)	.275"	(6.98)	.5"	(12.7)	3.8"	(96.5)	4.0"	(101.6)	1	10000
795 Material														
596-15795	TAG15T3-795	TAG15T3	1.0"	(25.4)	.5"	(12.7)	.6"	(15.24)	1.0"	(25.4)	3.35"	(85.1)	3	10000
596-27795	TAG27T1-795	TAG27T1	1.5"	(38.11)	.75"	(19.05)	.875"	(22.2)	1.5"	(38.1)	2.20"	(55.9)	1	3000
596-75795	TAG75T1-795	TAG75T1	2.0"	(50.8)	.625"	(15.87)	.75"	(19.05)	2.0"	(50.8)	2.12"	(53.8)	1	2000
596-73795	TAG73T1-795	TAG73T1	2.0"	(50.8)	1.0"	(25.4)	1.125"	(28.6)	1.0"	(25.4)	2.20"	(55.8)	1	3000
596-76795	TAG76T1-795	TAG76T1	2.5"	(63.5)	2.0"	(50.8)	2.12"	(53.8)	2.5"	(63.5)	2.62"	(66.5)	1	1000
596-72795	TAG72T1-795	TAG72T1	2.75"	(69.85)	1.25"	(31.75)	1.375"	(34.9)	2.75"	(69.85)	2.95"	(75.0)	1	3000
596-78795	TAG78T1-795	TAG78T1	3.0"	(76.2)	4.0"	(101.6)	4.12"	(104.7)	3.0"	(76.2)	3.12"	(79.2)	1	500
596-80795	TAG80T1-795	TAG80T1	3.0"	(76.2)	5.0"	(127)	3.0"	(76.2)	3.0"	(76.2)	3.125"	(79.4)	1	500
596-79795	TAG79T1-795	TAG79T1	4.0"	(101.6)	2.0"	(50.8)	2.12"	(53.97)	4.0"	(101.6)	4.25"	(107.9)	1	500

*Note: Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

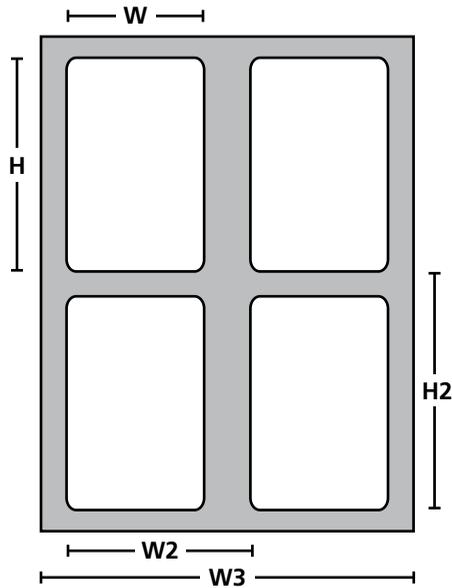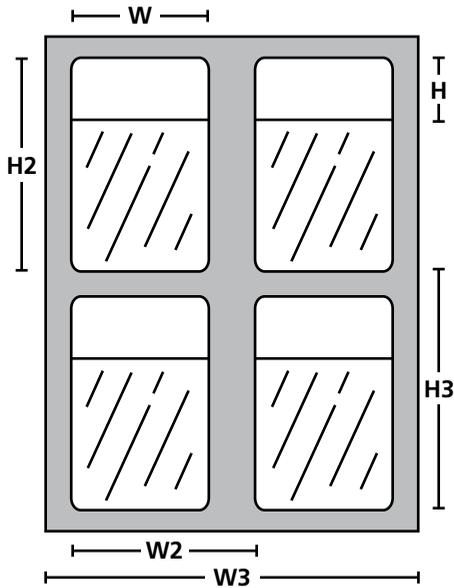# Thermal Transfer Labels CONTINUED

Article No.	Part No.	Type	Width (W)		Heigth (H)		Vertical Repeat (H2)		Horizontal Repeat (W2)		Width of Liner (W3)		Labels per row	Pkg. Qty.
			in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)		
822 Material														
596-27822	TAG27T1-822	TAG27T1	1.5"	(38.11)	.75"	(19.05)	.875"	(22.2)	1.5"	(38.11)	2.20"	(55.88)	1	3000
596-00019	TAG75T1-822	TAG75T1	2.0"	(50.8)	.625"	(15.87)	.75"	(19.05)	2.0"	(50.8)	2.12"	(53.8)	1	2000
596-70822	TAG70T12-822	TAG70T12	.25"	(6.35)	.25"	(6.35)	.5"	(12.7)	.25"	(6.35)	3.2"	(81.2)	12	10000
596-00028	TAGPP1T6-822	TAGPP1T6	.625"	(15.87)	.333"	(8.45)	.75"	(19.05)	.625"	(15.87)	3.8"	(96.52)	6	1000
596-00082	TAGPP1T6-82210M	TAGPP1T6	.625"	(15.87)	.333"	(8.45)	.75"	(19.05)	.625"	(15.87)	3.8"	(96.52)	6	10000
596-11822	TAG11T4-822	TAG11T4	.65"	(16.5)	.2"	(5.08)	.3"	(7.62)	.65"	(16.5)	2.6"	(66.04)	4	5000
596-00046	TAGPP2T6-822	TAGPP2T6	.66"	(16.7)	.33"	(8.38)	.75"	(19.05)	.66"	(16.7)	4.125"	(104.7)	6	1000
596-00083	TAGPP3T4-822	TAGPP3T4	.688"	(17.4)	.25"	(6.35)	.375"	(9.52)	.688"	(17.4)	2.9"	(73.66)	4	1000
596-13822	TAG13T4-822	TAG13T4	.75"	(19.05)	.25"	(6.35)	.35"	(8.89)	.75"	(19.05)	3.35"	(85.09)	4	10000
596-15822	TAG15T3-822	TAG15T3	1.0"	(25.4)	.5"	(12.7)	.6"	(15.24)	1.0"	(25.4)	3.35"	(85.09)	3	1000
596-84822	TAG84T3-822	TAG84T3	1.25"	(31.75)	.375"	(9.53)	.50"	(12.7)	1.25"	(31.75)	4.0"	(101.6)	3	10000
596-00023	TAG83T1-822	TAG83T1	4.0"	(101.6)	.312"	(7.52)	.438"	(11.13)	4.0"	(101.6)	4.1"	(104.14)	1	5000
596-00022	TAG81T8-822	TAG81T8	.325"	(8.25)	.20"	(5.08)	.30"	(7.62)	.325"	(8.25)	2.6"	(66.04)	8	5000
596-16822	TAG16T3-822	TAG16T3	.9"	(22.86)	.25"	(6.35)	.35"	(8.89)	.9"	(22.86)	3.35"	(85.09)	3	10000
596-17822	TAG17T2-822	TAG17T2	1.5"	(38.11)	.25"	(6.35)	.35"	(8.89)	1.65"	(41.98)	3.35"	(85.09)	2	10000
596-73822	TAG73T1-822	TAG73T1	2.0"	(50.8)	1.0"	(25.4)	1.125"	(28.57)	1.0"	(25.4)	2.20"	(55.83)	1	3000
596-42822	TAG72T1-822	TAG72T1	2.75"	(69.85)	1.25"	(31.75)	1.375"	(34.93)	2.75"	(69.85)	2.95"	(74.95)	1	3000
596-71822	TAG71T5-822	TAG71T5	.5"	(12.7)	.43"	(11.1)	.662"	(16.81)	.43"	(11.1)	3.35"	(85.09)	5	10000
596-82822	TAG82T2-822	TAG82T2	1.5"	(38.1)	.25"	(6.35)	.30"	(7.62)	1.5"	(38.1)	3.20"	(81.28)	2	10000
822C Material*														
596-00029	TAGPP1T6-822C	TAGPP1T6	.625"	(15.87)	.333"	(8.45)	.75"	(19.05)	.625"	(15.87)	3.8"	(96.52)	6	1000
596-00030	TAGPP1T6-822C10M	TAGPP1T6	.625"	(15.87)	.333"	(8.45)	.75"	(19.05)	.625"	(15.87)	3.8"	(96.52)	6	10000
596-00003	TAG11T4-822C	TAG11T4	.65"	(16.5)	.2"	(5.08)	.3"	(7.62)	.65"	(16.5)	2.6"	(66.04)	4	5000
596-00084	TAGPP2T6-822C	TAGPP2T6	.66"	(16.7)	.33"	(8.38)	.75"	(19.05)	.66"	(16.7)	4.125"	(104.7)	6	1000
596-00084	TAGPP3T4-822C	TAGPP3T4	.688"	(17.4)	.25"	(6.35)	.375"	(9.52)	.688"	(17.4)	2.9"	(73.66)	4	1000
596-00001	TAG15T3-822C10M	TAG15T3	1.0"	(25.4)	.5"	(12.7)	.6"	(15.24)	1.0"	(25.4)	3.35"	(85.09)	3	10000
596-00043	TAG27T1-822C	TAG27T1	1.5"	(38.11)	.75"	(19.05)	.875"	(22.2)	1.5"	(38.11)	2.20"	(55.88)	1	3000
PAP Non-Adhesive Cardstock														
596-00017	TAG74T2-PAP	TAG74T2	1.75"	(44.45)	375"	(9.53)	.562"	(14.2)	1.75"	(44.45)	3.5"	(88.9)	2	1000
596-00025	TAG82T2-PAP	TAG82T2	2.0"	(50.8)	.396"	(10.05)	.562"	(14.2)	2.0"	(50.8)	4.05"	(102.0)	2	1000
596-00024	TAG85T1-PAP	TAG85T1	3.0"	(76.2)	.50"	(12.7)	.60"	(15.24)	3.0"	(76.2)	3.2"	(8.28)	1	5000

Note: Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

* Clear   ** Not recommended for TT1210 printer

TAG17T2-822 not recommended for TT10SM, TT210SM, TT230SM, TT300SM, TT310SM, and TT330SM printers. Use TAG82T2 instead.

Thermal Transfer Self-Laminating Labels

HellermannTyton's thermal transfer labels provide superb printing quality where high visibility is required to meet the TIA-606 labeling applications. These labels are particularly suitable for permanent marking of patch cords and horizontal links and are UL recognized for indoor and outdoor use. The labels will not fade during long term exposure to UV lighting and will not unwrap or flag after application. A large selection of labels are available to mark everything from backbone cables to patch cords.

Article No.	Part No.	Type	Width (W)		Height of Printable Area (H)		Height of Label (H2)		Vertical Repeat (H3)		Horizontal Repeat (W2)		Width of Liner (W3)		Labels per row	Pkg. Qty.
			in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)		
100B Material																
596-00009	TAG26T6-100B	TAG26T6	.5"	(12.7)	.375"	(9.52)	.75"	(19.05)	1.0"	(25.4)	.5"	(12.7)	3.35"	(85.09)	6	10000
596-00010	TAG2T5-100B	TAG2T5	.5"	(12.7)	.5"	(12.7)	1.43"	(36.5)	1.62"	(41.28)	.66"	(16.81)	3.35"	(85.09)	5	10000
596-00014	TAG51T3-100B	TAG51T3	1.0"	(25.4)	.35"	(8.8)	.75"	(19.05)	.937"	(23.7)	1.075"	(27.3)	3.35"	(85.09)	3	10000
596-00006	TAG22T2-100B	TAG22T2	1.0"	(25.4)	.5"	(12.7)	1.43"	(36.5)	1.62"	(41.28)	1.075"	(27.3)	2.25"	(57.1)	2	5000
596-00007	TAG22T3-100B	TAG22T3	1.0"	(25.4)	.5"	(12.7)	1.43"	(36.5)	1.62"	(41.28)	1.075"	(27.3)	3.35"	(85.09)	3	5000
596-00027	TAG9T3-100B	TAG9T3	1.0"	(25.4)	.75"	(19.05)	2.25"	(57.1)	2.5"	(63.5)	1.0"	(25.4)	3.35"	(85.09)	3	5000
596-00013	TAG3T3-100B	TAG3T3	1.0"	(25.4)	1.0"	(25.4)	3.75"	(95.25)	4.0"	(101.6)	1.075"	(27.3)	3.35"	(85.09)	3	3000
596-00045	TAG53T2-100B	TAG53T2	1.5"	(38.1)	.7"	(17.78)	1.437"	(36.49)	1.62"	(41.28)	1.5"	(38.1)	3.35"	(85.09)	2	2500
596-00005	TAG1T1-100B	TAG1T1	1.9"	(48.26)	.75"	(19.05)	3.12"	(79.2)	3.42"	(86.8)	1.9"	(48.2)	3.875"	(98.42)	2	2500
596-00008	TAG24T1-100B	TAG24T1	2.0"	(50.8)	.5"	(12.7)	1.437"	(36.49)	1.68"	(42.6)	2.0"	(50.8)	2.2"	(55.9)	1	1000
596-00002	TAG10T2-100B	TAG10T2	2.0"	(50.8)	.75"	(19.05)	2.25"	(57.1)	2.5"	(63.5)	2.0"	(50.8)	3.875"	(98.42)	2	2500
596-00016	TAG6T1-100B	TAG6T1	2.0"	(50.8)	1.5"	(38.1)	3.75"	(95.25)	4.0"	(101.6)	2.0"	(50.8)	2.20"	55.88	1	1000

*Note: Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.

Continuous Vinyl Labels

HellermannTyton's continuous vinyl labels come in a variety of colors and printing widths. Designed to optimize unique and custom printing designs on demand, vinyl labels allow the maximum flexibility for printing unique sizes of labels. The vinyl is UV resistant up to five years in outdoor applications and can be used to print warning labels, voltage markers, switch identifiers, and even pipe markers using TagPrint™ Pro labeling software and any HellermannTyton thermal transfer printing system.

Article No.	Part No.	Type	Width in.	Width (mm)	Length ft.	Length (M)	Description	Color	Pkg. Qty.	Pkg. Type
558-00309	558-00309	HT1WH250	1"	(25.4mm)	250'	(76M)	White Vinyl on Continous Roll	White	250	RL
558-00313	558-00313	HT2WH250	2"	(50.8mm)	250'	(76M)	White Vinyl on Continous Roll	White	250	RL
558-00310	558-00310	HT1YE250	1"	(25.4mm)	250'	(76M)	Yellow Vinyl on Continous Roll	Yellow	250	RL
558-00314	558-00314	HT2YE250	2"	(50.8mm)	250'	(76M)	Yellow Vinyl on Continous Roll	Yellow	250	RL
558-00308	558-00308	HT1RD250	1"	(25.4mm)	250'	(76M)	Red Vinyl on Continous Roll	Red	250	RL
558-00312	558-00312	HT2RD250	2"	(50.8mm)	250'	(76M)	Red Vinyl on Continous Roll	Red	250	RL
558-00006	558-00006	HT3RD250	3"	(76.2mm)	250'	(76M)	Red Vinyl on Continous Roll	Red	250	RL
558-00307	558-00307	HT1BK250	1"	(25.4mm)	250'	(76M)	Black Vinyl on Continous Roll	Black	250	RL
558-00311	558-00311	HT2BK250	2"	(50.8mm)	250'	(76M)	Black Vinyl on Continous Roll	Black	250	RL

*Note: Use Part No. for ordering and Type for specification purposes.

M A T E R I A L   D A T A

Material Number	1500
Material	Vinyl
Adhesive Type	Acrylic
Operating Temperature	-40°F (-40°C) to +180°F (+82°C)
	5 year outdoor rated

Thermal Transfer Ribbon

Article No.	Part No.	Type	Width		Length		Description	Color	Pkg. Qty.	Pkg. Type
			in.	(mm)	ft.	(M)				
556-00189	556-00189	TTWHITEOUT	4.33"	(109.9mm)	984'	(300M)	White Ribbon on 1"Core Coated side out	White	1	1
556-00190	556-00190	TTWHITEOUTSM	4.33"	(109.9mm)	250'	(76M)	White Ribbon on 1"Core	White	1	1
556-00101	TT822OUT	TT822OUT	4.33"	(109.9mm)	984'	(300M)	Black Ribbon for TT1220, TTM430, TTM460	Black	1	1

*Note: Use Part No. for ordering and Type for specification purposes.

SwiftMark Thermal Transfer Printer

Designed specifically for the wire and cable industry, the SwiftMark sets a new standard in labeling efficiency. The SwiftMark Automatic Label Printer and Applicator prints self-laminating vinyl labels and applies them to various sizes of wire and cable, increasing labeling productivity by up to 300%. With a cycle time of just over four seconds, the SwiftMark can print and apply labels in a fraction of the time required to manually print and apply labels. This functionality increases productivity and reduces labeling errors, while providing the highest printing and application quality.

Labels can be quickly and easily designed in the accompanying Tagprint Pro software, and label files can be downloaded and stored on the SwiftMark via a USB, parallel port, or serial connection. Simply select the file and label quantity using the user-friendly touch screen, and labeling is as effortless as placing the cable in the machine and pressing a button or foot pedal.

The SwiftMark can label a wide range of cable diameters using various label widths from .5" (12.7mm) to 2" (50.8mm).

Article No.	Part No.	Type	Description	Pkg. Qty.
558-00060	558-00060	SMLA1	SwiftMark Printer Applicator	1
558-00065	558-00065	SMFP01	Replacement Foot Pedal for SwiftMark and Autotool Systems	1
558-00066	558-00066	SMSC01	Replacement Shipping Case	1

*Note: Use Part No. for ordering and Type for specification purposes.

Product Features

- Fastest cycle time in the industry

- Touch screen LCD

- WYSIWYG touch screen LCD

- Marks to within .5" of the end of the cable

- Labels cables from .06" to .75" (1.52 mm to 19 mm) in diameter

- Print repeat

- Works with various sizes of self-laminating adhesive labels

- Print label sets

- Ribbon save feature minimizes ribbon usage by up to 85%

- Download large sequential databases immediately

- 300 d.p.i. thermal transfer printer

- Stores label files on removable SD card

- USB, parallel port, and serial connections

- Accommodates various types of cable and cable bundles

- Eliminates label wrinkles or "flags"

- Adjustable wire grippers

- Easy to load with labels and ribbon

- Automatically keeps track of application cycles

- Foot pedal, touch screen, and 24V wrap initiation options

- Electric universal power supply

- Prints and applies up to 5,000 labels in eight hours

The SwiftMark has a simple interface which makes it very easy to use, yet it is capable of printing advanced label sequences such as label sets with different serial numbers and text on each label.

SwiftMark Thermal Transfer Printer Ribbon and Labels

SwiftMark labels utilize a ribbon-saving feature in which the ribbon only moves enough to accommodate each line of text printed to maximize ribbon life. Each label features a high-quality, self-laminating vinyl film that is UL recognized when used with the SwiftMark thermal transfer printer ribbon. The vinyl's high adhesive bond adheres quickly and strongly to the recommended wire insulation types. Label and ribbon loading is easy and the user has complete access to the entire ribbon and label path.

Article No.	Part No.	Type	Color	Width (W)		Length (L)	
				in.	(mm)	in.	(mm)
Printer Ribbons							
556-00165	556-00165	SM100OUT	Black	2.0"	(50.8)	984'	(300)
558-00227	558-00227	SMWAXOUT	Black	2.0"	(50.8)	984'	(300)

*Note: Use Part No. for ordering and Type for specification purposes.
 UL Recognized when used with HellermannTyton SwiftMark labels.

LABEL DATA
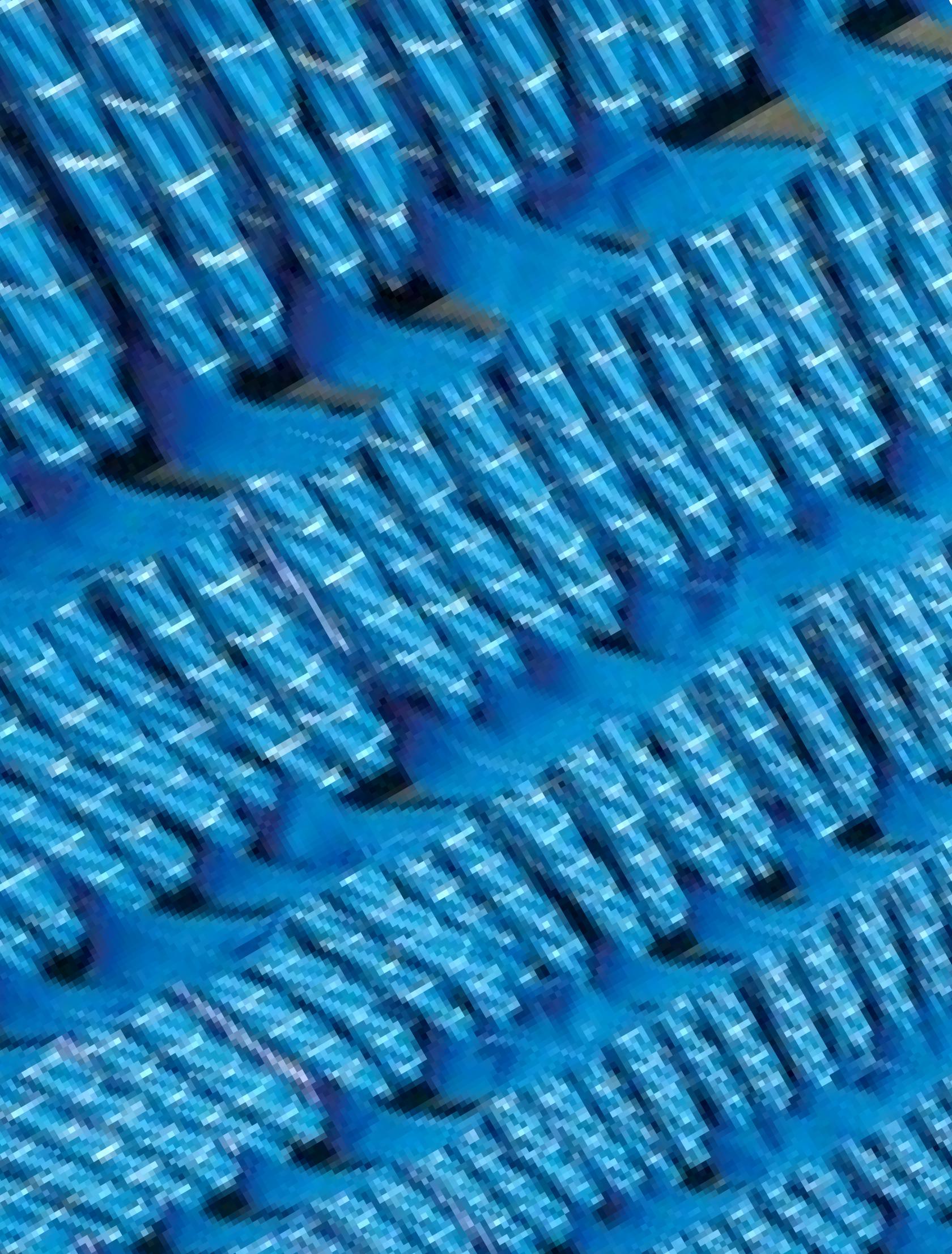
Material	Clear Vinyl
Printer	SwiftMark
Liner	3.1 mil high speed dispensing 50# paper
Temperature Range	-50°F to +200°F (-46°C to +93°C)
Adhesive Type	Acrylic
Application	For marking wire and cable
Ribbon	TT100OUTSM

W
H
PRINTABLE AREA
H2
LABEL HEIGHT
W2
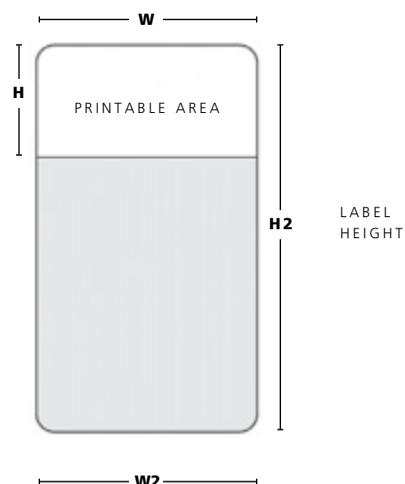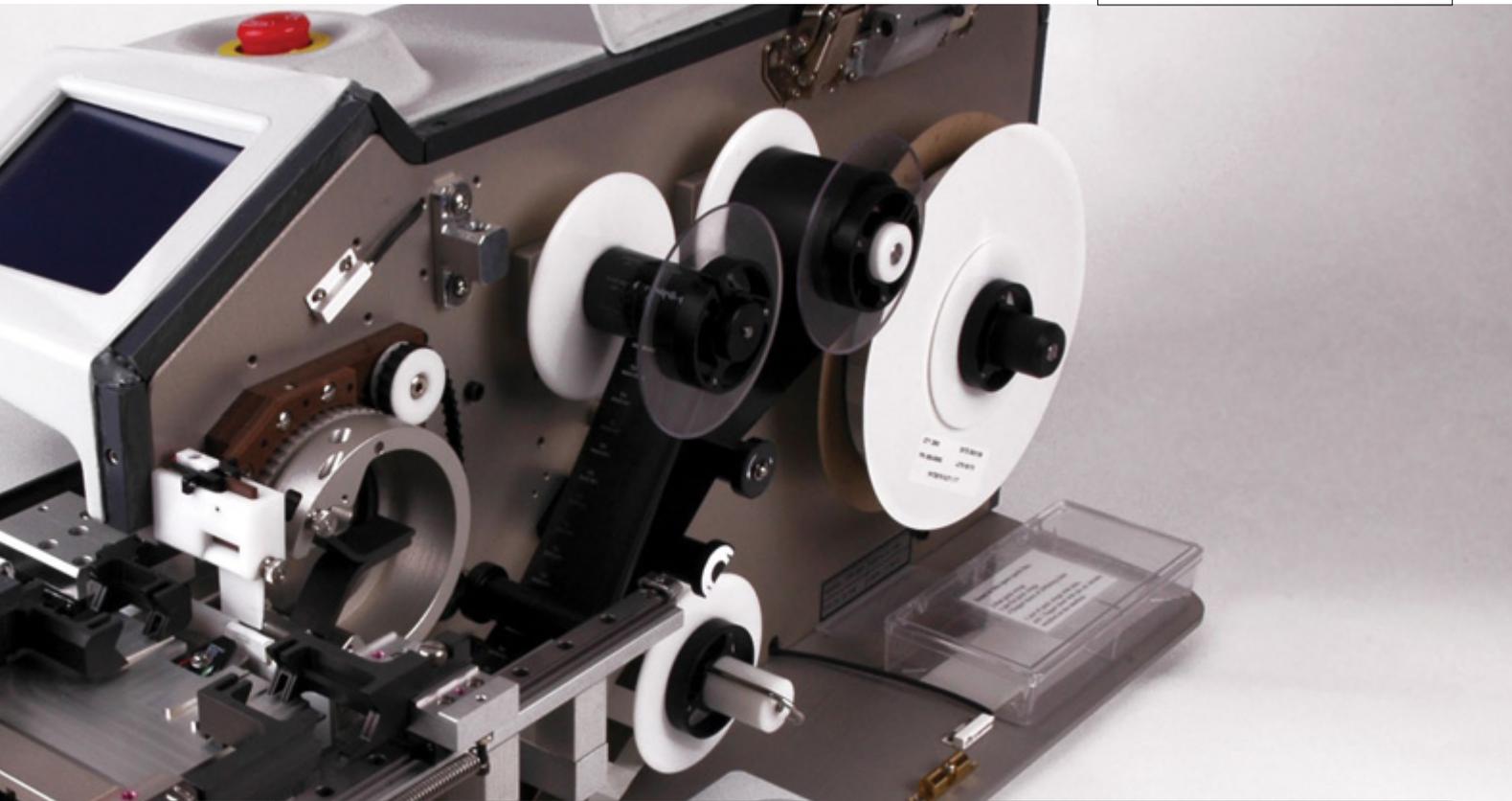
Article No.	Part No.	Type	Width (W)		Height of Printable area (H)		Height of Label (H2)		Width of Liner (W2)		Min. Ø Cable		Max Ø Cable		Pkg. Qty.
			in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	in.	(mm)	
Thermal Transfer Labels															
558-00045	558-00045	TAG38-76W127SM	.5"	(12.7)	.5"	(12.7)	1.4"	(36.5)	.90"	(22.86)	.137"	(3.5)	.299"	(7.6)	2500
558-00046	558-00046	TAG38-76W254SM	1.0"	(25.4)	.5"	(12.7)	1.4"	(36.5)	1.125"	(28.57)	.137"	(3.5)	.299"	(7.6)	2500
558-00047	558-00047	TAG38-76W381SM	1.5"	(38.1)	.5"	(12.7)	1.4"	(36.5)	1.625"	(41.27)	.137"	(3.5)	.299"	(7.6)	2500
558-00061	558-00061	TAG38-76W508SM	2.0"	(50.8)	.5"	(12.7)	1.4"	(36.5)	2.125"	(53.97)	.137"	(3.5)	.299"	(7.6)	2500
558-00179	558-00179	TAG15-30W127SM	.5"	(12.7)	.35"	(8.9)	.875"	(22.9)	.90"	(22.86)	.059"	(1.5)	.129"	(3.3)	4500
558-00063	558-00063	TAG20-47W203SM	.8"	(20.3)	.35"	(8.9)	.94"	(23.9)	1.125"	(31.75)	.078"	(2.0)	.18"	(4.7)	2500
558-00052	558-00052	TAG61-121W254SM	1.0"	(25.4)	.75"	(19.1)	2.25"	(57.1)	1.125"	(28.57)	.21"	(5.5)	.47"	(12.1)	1000
558-00053	558-00053	TAG61-121W381SM	1.5"	(38.1)	.75"	(19.1)	2.25"	(57.1)	1.625"	(41.27)	.21"	(5.5)	.47"	(12.1)	1000
558-00056	558-00056	TAG85-100W381SM	1.5"	(38.1)	1.0"	(25.4)	3.0"	(76.2)	1.625"	(41.27)	.39"	(10.1)	.70"	(17.7)	1000
558-00057	558-00057	TAG85-100W444SM	1.75"	(44.5)	1.0"	(25.4)	3.0"	(76.2)	1.875"	(47.62)	.39"	(10.1)	.70"	(17.7)	1000
558-00058	558-00058	TAG85-100W508SM	2.0"	(50.8)	1.0"	(25.4)	3.0"	(76.2)	2.125"	(53.97)	.39"	(10.1)	.70"	(17.7)	1000
558-00059	558-00059	TAG111-190W508SM	2.0"	(50.8)	1.5"	(38.1)	3.75"	(95.3)	2.125"	(53.97)	.60"	(13.2)	.75"	(19.0)	1000
558-00069	558-00069	TAG26-53W254SM	1.0"	(25.4)	.35"	(8.9)	1.0"	(25.4)	1.125"	(28.57)	.10"	(2.6)	.20"	(5.3)	5000
558-00071	558-00071	TAG38-81W254SM	1.0"	(25.4)	.5"	(12.7)	1.5"	(38.1)	1.125"	(28.57)	.15"	(3.8)	.32"	(8.1)	2500
558-00216	558-00216	TAG20-47W508SM	2.0"	(50.8)	.5"	(12.7)	1.0"	(25.4)	2.125"	(53.97)	.10"	(2.6)	.20"	(3.3)	4500
558-00198	558-00198	TAG111-190W254SM25	1.0"	(25.4)	1.0"	(25.4)	3.75"	(95.3)	1.125"	(28.57)	.60"	(13.2)	.75"	(19.05)	1000

*Note: Dimensions are approximate and subject to technical changes. Use Part No. for ordering and Type for specification purposes.
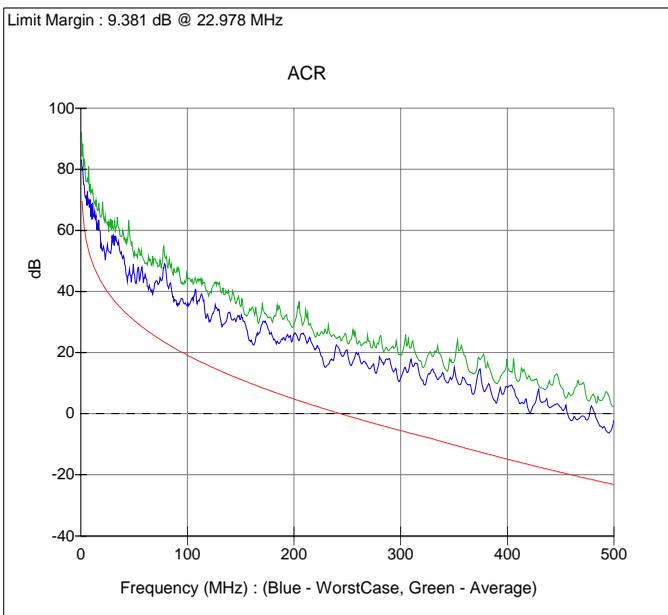
APPENDIX

Intertek

Summary

Client	Hellermann	**Report No**	3161280
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	Cat. 6A shielded	**Length(m)**	100
Test Started	9/17/2008 4:46:15 PM	**Temperature**	20 °C
Description	4 Connector Channel	**Appendix**	A
Technician	Development	**Test Status**	Complies

Limit Margin : 9.381 dB @ 22.978 MHz

ACR

Frequency (MHz) : (Blue - WorstCase, Green - Average)

ACR			
Freq	Worst Case	Average	Spec
1.	81.6	85.9	70.3
4.	71.1	79.7	59.0
8.	67.5	72.8	52.4
10.	69.1	72.9	50.2
16.	60.9	66.5	45.1
20.	53.5	66.1	42.6
25.	54.9	62.2	39.9
31.25	56.2	62.2	37.0
62.5	41.7	49.0	27.1
100.	35.6	44.7	19.2
250.	20.4	23.4	-0.7
500.	-2.1	2.3	-23.2

Limit Margin : 9.065 dB @ 1.124 MHz

PSACR

Frequency (MHz) : (Blue - WorstCase, Green - Average)
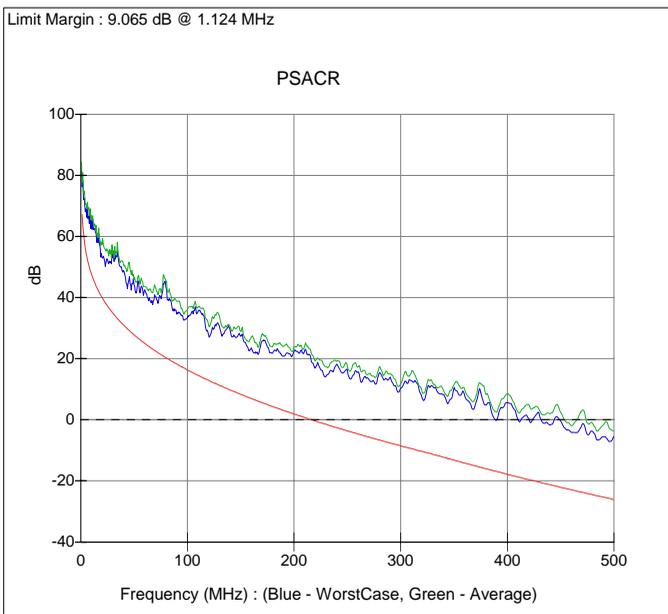
PSACR			
Freq	Worst Case	Average	Spec
1.	77.3	79.1	67.9
4.	69.0	71.6	56.5
8.	64.3	66.8	49.9
10.	65.8	66.6	47.6
16.	58.6	59.9	42.5
20.	53.0	57.7	39.9
25.	52.3	55.3	37.2
31.25	52.5	53.9	34.3
62.5	40.0	42.6	24.3
100.	33.5	36.1	16.3
250.	16.4	17.6	-3.6
500.	-5.4	-3.5	-26.1

LinkWare — CABLE TEST MANAGEMENT SOFTWARE

Cable ID: RNF62P100-L10-F1A **Test Summary: PASS**

Date / Time: 08/06/2010 07:49:04am	Operator: DEE	Model: DTX-1800
Headroom: 0.99 dB (Loss)	Software Version: 2.2400	Main S/N: 8655063
Test Limit: TIA568C Backbone MM	Limits Version: 1.3700	Remote S/N: 8655083
Cable Type: * RAPIDNET 62/125 FIBER *		Main Adapter: DTX-MFM2
		Remote Adapter: DTX-MFM2

Loss R->M PASS

Date / Time: 08/06/2010 07:49:04am
Cable Type: * RAPIDNET 62/125 FIBER *
Modal Bandwidth: 160 MHz-km
MAIN: DTX-1800 (8655063 v2.2200)
Module: DTX-MFM2 (9437053)
Remote: DTX-1800R (8655083 v2.2200)
Module: DTX-MFM2 (9437055)

Propagation Delay (ns)	165	
Length (ft)	109	PASS
Limit 6562		

	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.23	0.19
Loss Limit (dB)	1.62	1.55
Loss Margin (dB)	1.39	1.36
Reference (dBm)	-19.67	-19.74

n = 1.4900
Number of Adapters: 2
Number of Splices: 0
Patch Type: * RAPIDNET 62/125 FIBER *
Patch Length1 (ft): 3.3
Patch Length2 (ft): 3.3
Reference Date: 08/06/2010 07:08:16am
1 Jumper

Loss M->R PASS

Date / Time: 08/06/2010 07:49:04am
Cable Type: * RAPIDNET 62/125 FIBER *
Modal Bandwidth: 160 MHz-km
Remote: DTX-1800R (8655083 v2.2200)
Module: DTX-MFM2 (9437053)
MAIN: DTX-1800 (8655063 v2.2200)
Module: DTX-MFM2 (9437053)

Propagation Delay (ns)	165	
Length (ft)	109	PASS
Limit 6562		

	850 nm	1300 nm
Result	PASS	PASS
Loss (dB)	0.45	0.56
Loss Limit (dB)	1.62	1.55
Loss Margin (dB)	1.17	0.99
Reference (dBm)	-19.31	-19.23

n = 1.4900
Number of Adapters: 2
Number of Splices: 0
Patch Type: * RAPIDNET 62/125 FIBER *
Patch Length1 (ft): 3.3
Patch Length2 (ft): 3.3
Reference Date: 08/06/2010 07:08:16am
1 Jumper

Compliant Network Standards:

FDDI	10BASE-FL	100BASE-FX
1000BASE-SX	1000BASE-LX	ATM 52 Fiber Optic
ATM 155 Fiber Optic	ATM 155SWL Fiber Optic	ATM 622 Fiber Optic
ATM 622SWL Fiber Optic	Fibre Channel 133	Fibre Channel 266
Fibre Channel 266SWL	Fibre Channel 100-M6-SN-I	Fibre Channel 200-M6-SN-I
Fibre Channel 400-M6-SN-I		

Fibre Channel 400-M6-SN-I: This channel is certified for 400 Megabytes per second Fibre Channel application over multimode fiber with short wavelength 850 nm laser source.

Project: DEFAULT
Site: TGM-544

448838-new.flw

Test Summary: PASS

LinkWare — CABLE TEST MANAGEMENT SOFTWARE

Cable ID: RNGC6ARBCC88-L43-P4 **Test Summary: PASS**

Date / Time: 07/14/2010 06:25:02am	Operator: WAYNE	Model: DTX-1800
Headroom: 6.9 dB (NEXT 12-36)	Software Version: 2.2400	Main S/N: 9437027
Test Limit: TIA Cat 6 Perm. Link	Limits Version: 1.3700	Remote S/N: 9435138
Cable Type: * RAPIDNET CAT6 CMR *	NVP: 68.0%	Main Adapter: DTX-PLA001
		Remote Adapter: DTX-PLA001

Wire Map (T568B)
PASS

91 ft

1	---	1
2	---	2
3	---	3
6	---	6
4	---	4
5	---	5
7	---	7
8	---	8
S		S
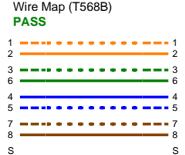
Length (ft), Limit 295	[Pair 78]	91
Prop. Delay (ns), Limit 498		144
Delay Skew (ns), Limit 44		8
Resistance (ohms)	[Pair 78]	5.4
Insertion Loss Margin (dB)	[Pair 36]	21.8
Frequency (MHz)	[Pair 36]	250.0
Limit (dB)	[Pair 36]	31.1

Insertion Loss
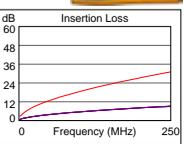
	Worst Case Margin		Worst Case Value	
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	36-78	12-36	36-78
NEXT (dB)	6.9	7.1	6.9	7.1
Freq. (MHz)	235.0	241.5	235.0	241.5
Limit (dB)	35.8	35.6	35.8	35.6
Worst Pair	36	78	36	78
PS NEXT (dB)	7.3	7.7	7.3	7.7
Freq. (MHz)	234.5	244.5	234.5	244.5
Limit (dB)	33.2	32.9	33.2	32.9
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	12-36	78-45
ACR-F (dB)	11.0	11.0	14.3	13.8
Freq. (MHz)	13.6	12.5	247.5	234.5
Limit (dB)	41.5	42.3	16.3	16.8
Worst Pair	12	12	36	45
PS ACR-F (dB)	13.2	13.2	16.1	15.5
Freq. (MHz)	12.5	12.5	247.5	235.5
Limit (dB)	39.3	39.3	13.3	13.7
N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-78	12-36	36-78
ACR-N (dB)	16.2	16.0	28.7	28.9
Freq. (MHz)	8.8	3.9	242.0	245.0
Limit (dB)	53.6	60.8	5.0	4.7
Worst Pair	36	12	36	78
PS ACR-N (dB)	17.0	16.5	28.3	29.3
Freq. (MHz)	13.6	7.3	234.5	244.5
Limit (dB)	46.9	53.0	3.2	2.2
PASS	MAIN	SR	MAIN	SR
Worst Pair	36	36	36	36
RL (dB)	8.4	8.9	8.4	10.5
Freq. (MHz)	242.0	32.5	242.0	249.5
Limit (dB)	10.2	18.4	10.2	10.0

Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	ATM-25	ATM-51
ATM-155	100VG-AnyLan	TR-4
TR-16 Active	TR-16 Passive	

Project: DEFAULT
Site: Client Name

LinkWare Version 6.1

FLUKE networks.

444204-a.flw

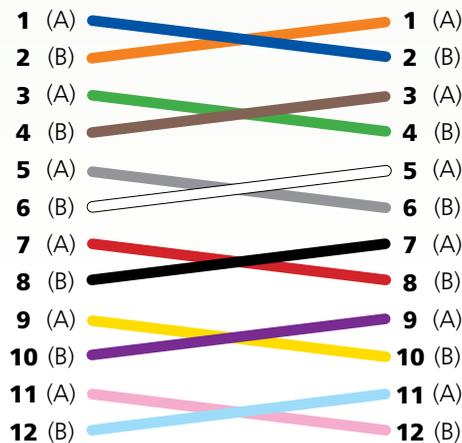*FLUKE is a registered trademark of Fluke Corporation

RapidNet® Fiber Polarity

In a traditional fiber cabling system, it is important to maintain the proper signal polarity to ensure that the optical transmitter at one end is connected to the optical receiver at the other end. Optical transceivers typically deploy a duplex fiber connection, LC or SC, and have a transmit side and a receive side. Polarity is maintained when Side A of one connector pair is mated with Side B of the other connector pair. HellermanTyton's RapidNet Cassette to Cassette looms are available in two options.

STRAIGHT THROUGH WIRING

1 (A)	————————	**1** (A)
2 (B)	————————	**2** (B)
3 (A)	————————	**3** (A)
4 (B)	————————	**4** (B)
5 (A)	————————	**5** (A)
6 (B)	————————	**6** (B)
7 (A)	————————	**7** (A)
8 (B)	————————	**8** (B)
9 (A)	————————	**9** (A)
10 (B)	————————	**10** (B)
11 (A)	————————	**11** (A)
12 (B)	————————	**12** (B)

REVERSED WIRING

1 (A)		**1** (A)
2 (B)		**2** (B)
3 (A)		**3** (A)
4 (B)		**4** (B)
5 (A)		**5** (A)
6 (B)		**6** (B)
7 (A)		**7** (A)
8 (B)		**8** (B)
9 (A)		**9** (A)
10 (B)		**10** (B)
11 (A)		**11** (A)
12 (B)		**12** (B)

Modular Jack Options

For those installations where the pathway may be obstructed or space is limited, HellermannTyton offers a Jack to Cassette solution in a variety of standard stagger options to meet your cabling requirements. Use with RNG Series Copper Solutions available on pages 13 and 14.
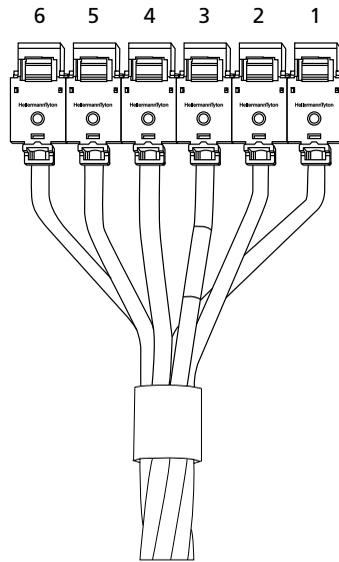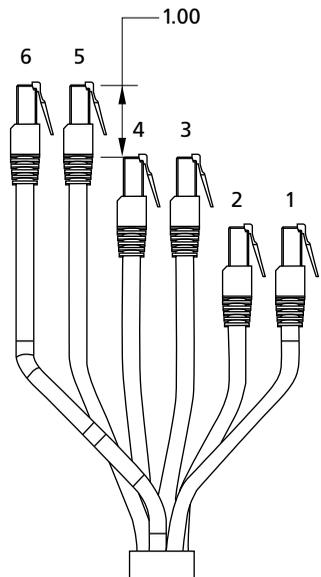
N = Jack - Inline
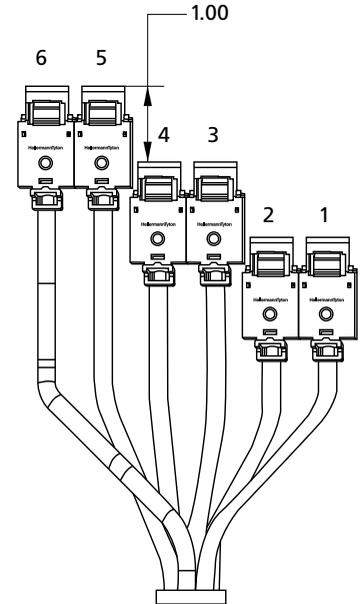
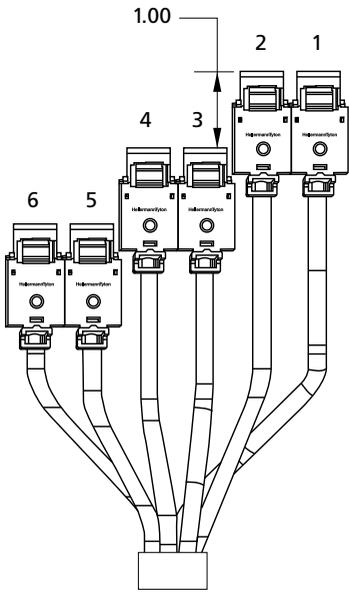K = Jack - Pair Stagger Left

Modular Plug Options

HellermannTyton offers a variety of standard stagger options to meet your cabling needs. Use with RNG Series Copper UTP Solutions available on page 14.
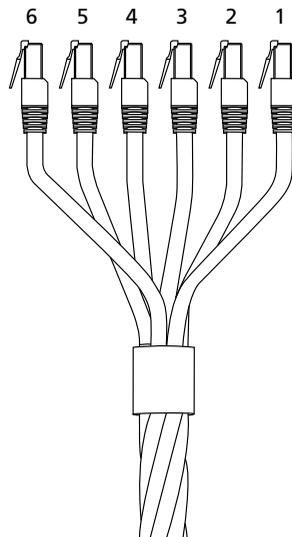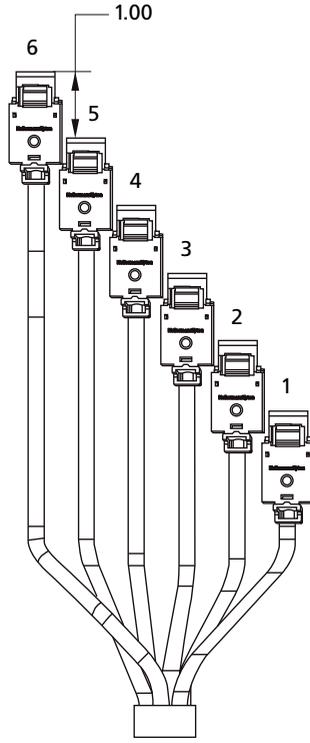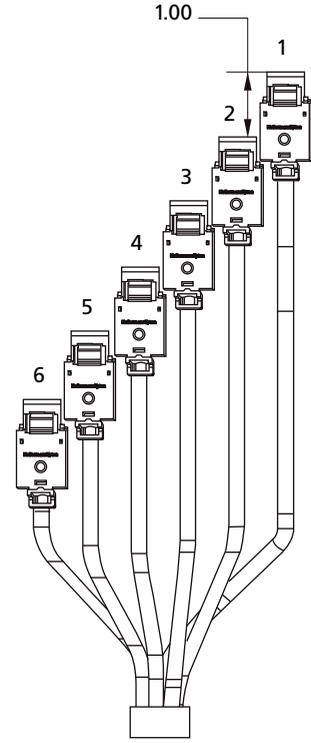
T = Plug - Inline

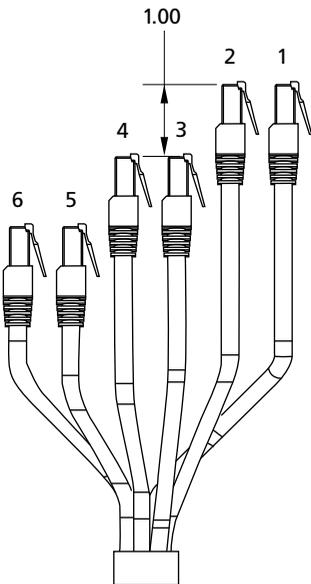Q = Plug - Pair Stagger Left

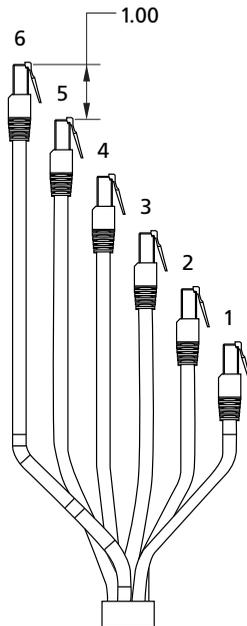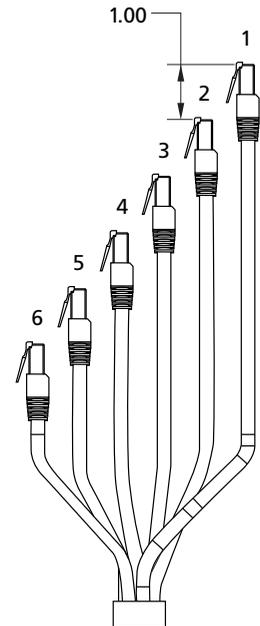J = Jack - Pair Stagger Right

M = Jack - Stagger Left

L = Jack - Stagger Right

P = Plug - Pair Stagger Right

S = Plug - Stagger Left

R = Plug - Stagger Right

RapidNet® Legacy Category 6 Copper UTP Solutions

RapidNet Legacy Solutions offer the same performance as the RNG Series, but utilize the first release of the cassette. The legacy cassette and system is for use in existing applications to achieve a consistent appearance. RapidNet utilizes a bundled cable with six 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 RapidNet cassettes. Each cassette snaps easily into the modular panel. Removal is just as easy – simply slide the latch forward and the cassette slides 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, ANSI/TIA-568-C specifications

- Permanent Link test reports included with all links

- 1U modular panel accepts 4 RapidNet cassettes for 24 ports

- 2U modular panel accepts 8 RapidNet cassettes for 48 ports

- Available in lengths from 10 ft - 295 ft

- Made in the USA

Part No.	Description	Cable Type	Color
Cassette to Cassette (Panel to Panel)			
RNC6CMPXXX*	RapidNet CAT6 CMP cassette to cassette 6 port loom	Plenum	Blue
RNC6CMPWHTXXX*	RapidNet CAT6 CMP cassette to cassette 6 port loom	Plenum	White
RNC6CMRXXX*	RapidNet CAT6 CMR cassette to cassette 6 port loom	Riser	White
RNC6CMRBLUXXX*	RapidNet CAT6 CMR cassette to cassette 6 port loom	Riser	Blue
Cassette to Jack (Panel to Modular Panel or Faceplate)			
RNC6JCMPXXX*	RapidNet CAT6 CMP cassette to jack 6 port loom	Plenum	Blue
RNC6JCMPWHTXXX*	RapidNet CAT6 CMP cassette to jack 6 port loom	Plenum	White
RNC6JCMRXXX*	RapidNet CAT6 CMR cassette to jack 6 port loom	Riser	White
RNC6JCMRBLUXXX*	RapidNet CAT6 CMR cassette to jack 6 port loom	Riser	Blue

* Note: To complete Part No., replace the "X's" with the length required in feet, 10 to 295 feet.

Cassette to Cassette (panel to panel)

Cassette to Jack (panel to modular panel or faceplate)

Cassette to Plug
(panel to plug)

Cassette to Open End
(panel to open end)

Cassette to Pod
(panel to consolidation point)

Part No.	Description	Cable Type	Color
Cassette to Plug (Panel to Plug)			
RNC6PCMPXXX*	RapidNet CAT6 cassette to plug 6 port loom	Plenum	Blue
RNC6PCMPWHTXXX*	RapidNet CAT6 cassette to plug 6 port loom	Plenum	White
RNC6PCMRXXX*	RapidNet CAT6 cassette to plug 6 port loom	Riser	White
RNC6PCMRBLUXXX*	RapidNet CAT6 cassette to plug 6 port loom	Riser	Blue
Cassette to Open End (Panel to Open End)			
RNC6OCMPXXX*	RapidNet CAT6 cassette to open end 6 port loom	Plenum	Blue
RNC6OCMPWHTXXX*	RapidNet CAT6 cassette to open end 6 port loom	Plenum	White
RNC6OCMRXXX*	RapidNet CAT6 cassette to open end 6 port loom	Riser	White
RNC6OCMRBLUXXX*	RapidNet CAT6 cassette to open end 6 port loom	Riser	Blue
Cassette to Pod (Panel to Consolidation Point)			
RNC6PDCMPXXX*	RapidNet CAT6 cassette to pod 6 port loom	Plenum	Blue
RNC6PDCMPWHTXXX*	RapidNet CAT6 cassette to pod 6 port loom	Plenum	White
RNC6PDCMRXXX*	RapidNet CAT6 cassette to pod 6 port loom	Riser	White
RNC6PDCMRBLUXXX*	RapidNet CAT6 cassette to pod 6 port loom	Riser	Blue

* Note: To complete Part No., replace the "X's" with the length required in feet, 10 to 295 feet.

c(UL)us LISTED

Example Model Number: ▶

RNC6PDCMP	165
Part No.	Length

RapidNet® Legacy Fiber Solutions

RapidNet Legacy Solutions offer the same performance as the RNG Series, but utilize the first release of the cassette. The legacy cassette and system is for use in existing applications to achieve a consistent appearance. RapidNet Fiber utilizes the LC connector with a 12 fiber single unit plenum (OFNP) cable. Cut to the customer specified length at HellermannTyton, each 12 fiber (6 port) loom is supplied terminated at both ends to RapidNet cassettes. Each cassette snaps easily into the modular panel. Removal is just as easy - simply slide the latch forward and the cassette slides out of the rear of the panel.

Product Features

- Exceeds ANSI/TIA-568-C 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 looms/orders

Fiber Options

- 62.5/125µm (OM1 Fiber)

- 50/125µm (OM2 Fiber)

- 50/125µm laser optimized 10G (OM3 Fiber)

- Single Mode

Part No.	Description	Cable Type	Color
RNF62PXXX*	RapidNet 62.5/125µm (OM1) MM LC assembly, 12 fiber (6 port)	Plenum	Orange
RNF50PXXX*	RapidNet 50/125µm (OM2) MM LC assembly, 12 fiber (6 port)	Plenum	Orange
RNF50P10GXXX*	RapidNet 50/125µm (OM3) MM 10 Gig LC assembly, 12 fiber (6 port)	Plenum	Aqua
RNFSMPXXX*	RapidNet 8.3/125µm SM LC assembly, 12 fiber (6 port)	Plenum	Yellow

* Note: To complete Part No., replace the "X's" with the length required in feet

Additional Information: Standard part number is wired straight through (A-A). To order crossover (A-B), add "REV" to end of part number.

RNFAAAXXXLC*	RapidNet LC cassette to 12 LC connectors	Plenum

* Note: To complete Part No., replace the "A's" with the appropriate fiber type: 62P, 50P, 50P10G, or SMP.

Replace the "X's" with the length required in feet.
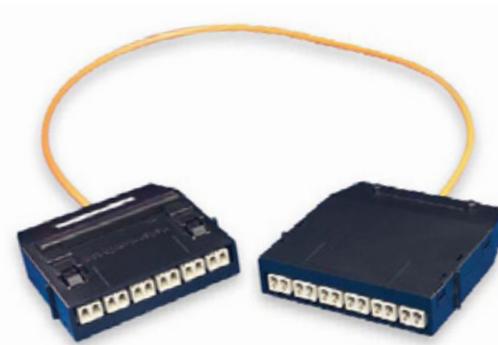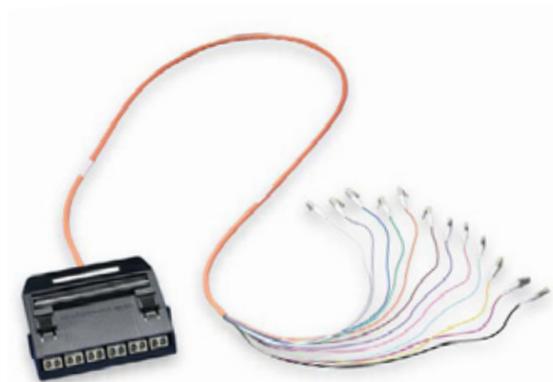
Example Model Number:	**RNF**	**62P**	**100**
	Part No.	Fiber Type	Length

LC Connector
Cassette to Cassette (panel to panel)

Cassette to Connector (panel to enclosure)

RapidNet® Legacy Modular Panels and Accessories

RapidNet Modular Panel
RNPP2U

RapidNet Modular Panel
RNPP1U

RN Series Blank Insert
RNBLANK

All RapidNet cassettes utilize our latch design to allow quick and easy installation into modular patch panels. The 1U RapidNet modular patch panel accepts four cassettes, and the 2U modular patch panel accepts eight cassettes. Panels fit standard 19" racks.

Part No.	Description	Port Count
RNPP1U	RapidNet Modular Panel - 1U	24 UTP copper ports 48 LC fibers / 24 ports 24 SC fibers / 12 ports
RNPP1URS	RapidNet Modular Panel - 1U*	24 UTP copper ports 48 LC fibers / 24 ports 24 SC fibers / 12 ports
RNPP2U	RapidNet Modular Panel - 2U	48 UTP copper ports 96 LC fibers / 48 ports 48 SC fibers / 24 ports
RNPP2URS	RapidNet Modular Panel - 2U*	48 UTP copper ports 96 LC fibers / 48 ports 48 SC fibers / 24 ports
RNBLANK	RapidNet Modular Panel Blank Insert	N/A

* With Rack-Snap inserts pre-installed.
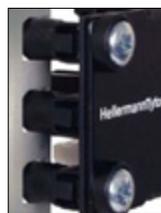
Rack-Snap - snaps into standard square holes in most cabinets.

Complete your installation with our copper and fiber patch cords, identification solutions and wire management products.

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 Certified Installers. These Certified Installers have been 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 CERTIFICATIONS

LINK WARRANTY*

• Use HellermannTyton connectivity products
• Use approved horizontal cable
• Permanent Link test required with approved tester

RAPIDNET LINK WARRANTY*

• Use HellermannTyton copper and/or fiber RapidNet products
• Permanent Link test required with approved tester
• For project certification, one port per cassette must be tested to TIA-568B standards with an approved tester

* The Permanent Link is defined as all the horizontal cabling between the Telecommunications Room (TR) and Work Area. This includes cable, modular jacks, patch panels, and an optional consolidation point. The maximum length that the horizontal cabling can be as defined in TIA/EIA-568-B.1 is 90 meters (295 ft.).

CHANNEL WARRANTY*

• Use HellermannTyton connectivity products
• Use approved horizontal cable
• Permanent Link test required with approved tester
• Use only HellermannTyton CAT 5e/CAT 6A patch cords

* The Channel is defined as all the horizontal cabling between the Telecommunications Room (TR) and Work Area with the addition of patch cords at each location. The maximum length of the equipment cord, patch cord, and work area cord shall not exceed 10 meters (33 ft.)

PRODUCT WARRANTY

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

CORPORATE WARRANTY POLICY

HellermanTyton Products are warranted to be free from defects in material and workmanship at the time sold by us; but our obligation under this warranty and that of the seller is limited to the replacement of the product, and neither we nor the seller are bound by any other warranty, expressed, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expenses or consequential damages of any kind arising out of the use or inability to use these products. All are sold with the understanding that the user will test them in actual use and determine their adaptability for the intended uses.

The above warranties and remedies are exclusive and in lieu of all other warranties and remedies whatsoever, expressed or implied, including but not limited to, any implied warranties of merchantability or fitness for a particular purpose which HellermannTyton expressly disclaims.

For more warranty information, go to:
www.hellermann.tyton.com

HellermannTyton

HellermannTyton North American Corporate Headquarters

7930 N Faulkner Rd.
P.O. Box 245017
Milwaukee, WI 53224-9517
Phone: 414.355.1130, 1.800.537.1512
Fax: 414.355.7341, 1.800.848.9866
Email: corp@htamericas.com
TS16949:2002, ISO 9001:2000 and
ISO 14001 certified

HellermannTyton Canada

205 Industrial Parkway North, Unit #4
Aurora, Ontario L4G 4C4 Canada
Phone: 1.800.661.2461
Fax: 1.800.390.3904
Email: sales@hellermanntyton.ca

HellermannTyton Mexico

Anillo Periférico Sur 7980 Edificio 2 - D
Parque Industrial Tecnológico II
Santa María Tequepexpan
Tlaquepaque, Jalisco, México 45601
Teléfono: 011.52.33.3133.9880
Fax: 011.52.33.3133.9861
Email: info@hellermanntyton.com.mx

www.hellermann.tyton.com | **1.800.537.1512**