



RapidNet ULTRA Overview

The Data Centre Solution

MADE TO CONNECT

RAPIDNET®

ULTRA

HellermannTyton

The RapidNet Evolution

For 20 years HellermannTyton has been a pioneer in pre-terminated infrastructure with its RapidNet solution.

RapidNet is the pre-terminated, pre-tested cassette based 'plug and play' system developed by HellermannTyton, designed to deliver high performance and improve the ease and speed of infrastructure deployments.

Initially a copper cassette to cassette solution designed for data centres, RapidNet quickly evolved to suit call centre and office 'to the desk' demands with cassette to pod and cassette to jack options. Shortly after, RapidNet Fibre was introduced with LC and SC cassette versions. A little later, MTP cassettes joined the portfolio adding increased fibre capacity to meet the demands of the modern-day data centre.

In early 2024 HellermannTyton Connectivity released RapidNet ULTRA, taking the existing data centre fibre solution beyond today's requirement, offering an even greater fibre density while accommodating very small form factor connectivity and supporting tomorrow's requirements for high bandwidth, advanced network architectures and ultra ethernet.



ULTRA12 & ULTRA8

RapidNet ULTRA Cassettes

BASE-12 CASS - LC, CS, SN, MTP & BASE-8 CASS - LC, CS, SN, MTP

RapidNet ULTRA cassettes are designed to efficiently transition MTP Backbone assemblies into front presentation small form factor (SFF) or very small form factor (VSFF) connectivity. Cassettes are factory terminated and tested offering best in class ultra low loss connectivity (ULL) for rapid deployment of base-8 or base-12 fibre systems. The compact design allows for ultra high density installations to be realised, maximising critical connectivity real estate.

RapidNet ULTRA cassettes are available in two footprints ULTRA8 which has been optimised for Base-8 fibre deployments and ULTRA12 which services Base-12 fibre deployments and forms the basis for the rest of the RapidNet ULTRA Solution.

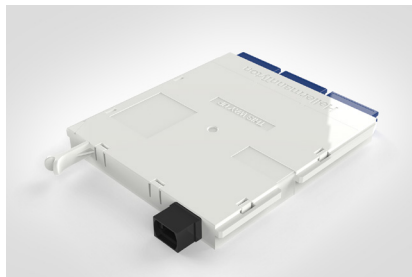
Features and Benefits:

- Rear MTP elite connectivity
- Factory terminated & tested
- Best in class ultra low loss connectivity
- Effortless plug & play system
- Supports OS2 G657-A1, OM4 & OM5 Fibre specifications
- UL94 V0 Compliant

ULTRA12 Cassette



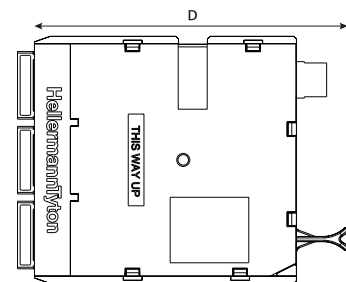
RapidNet ULTRA12 SN (front view).



RapidNet ULTRA12 SN (rear view).

Dimensions (mm)	L	W	H
	120	94	12
Capacity	LC	CS	SN
Per Cassette	12f	18f	24f
Per U	144f	216f	288f

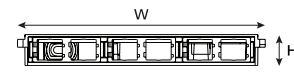
Technical Diagrams



RapidNet ULTRA12 (top view).



RapidNet ULTRA12 (side view).

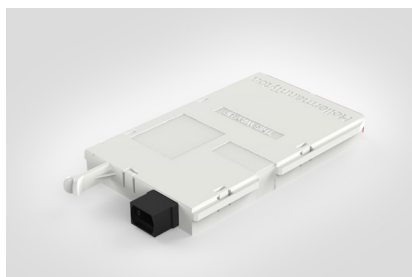


RapidNet ULTRA12 (front view).

ULTRA8 Cassette



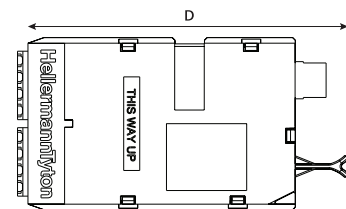
RapidNet ULTRA8 LC (front view).



RapidNet ULTRA8 LC (rear view).

Dimensions (mm)	L	W	H
	120	64.5	12
Capacity	LC	CS	SN
Per Cassette	8f	12f	16f
Per U	144f	216f	288f

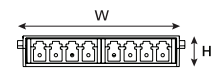
Technical Diagrams



RapidNet ULTRA8 (top view).



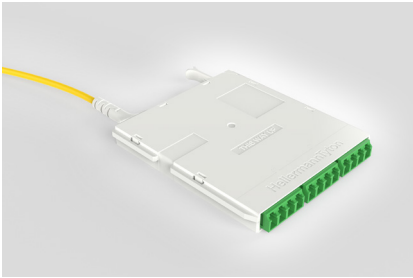
RapidNet ULTRA8 (side view).



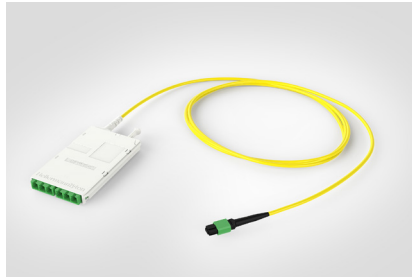
RapidNet ULTRA8 (front view).

RapidNet ULTRA Tethered Cassette

RapidNet ULTRA Tethered Cassettes are a factory terminated and tested cassette to MTP cabled assembly. The micro fibre cable is terminated directly from a single MTP connector to the front connectors. This offers an effective way to reduce the number of connections in your fibre deployment and improve system loss. Tail ends can be connected to another RapidNet ULTRA Cassette or directly into QSFP interfaces.



RapidNet ULTRA12 Tethered LC Cassette (front view).



RapidNet ULTRA12 Tethered CS Cassette to MTP (rear view).

Features and Benefits:

- Available in ULTRA8 and ULTRA12 Cassette footprints
- Supports OS2 G657-A1, OM4 & OM5
- Supports LC, CS, SN Front Presentation Connectivity
- Tail end available in MTP Elite or Pro (Pinned/Unpinned)
- Bare end tail for on-site splicing available
- Single or double jacket micro fibre cable
- Made to order bespoke lengths

RapidNet ULTRA Cassette to Cassette Assembly

RapidNet ULTRA Cassette to Cassette assemblies are the cornerstone of HellermannTyton's RapidNet system. They have been the leading configuration throughout the RapidNet life cycle. RapidNet ULTRA offers this popular format which benefits the user by reducing the number of components required for installation, making this configuration one of the fastest 'plug & play' solutions available in the market.

The cable is directly factory terminated in both cassettes therefore reducing the number of connections and improving fibre loss.



RapidNet ULTRA12 LC Cassette to LC Cassette Assembly (front view).



RapidNet ULTRA12 LC Cassette to LC Cassette Assembly (rear view).

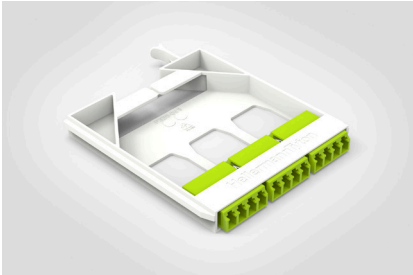
Features and Benefits:

- Available in ULTRA8 and ULTRA12 Cassette footprints
- Reduced insertion loss performance
- Supports OS2 G657-A1, OM4 & OM5
- Supports LC, CS, SN front presentation connectivity
- Rapid deployment, plug & play high density fibre solution
- Single or double jacket micro fibre cable
- Made to order bespoke length

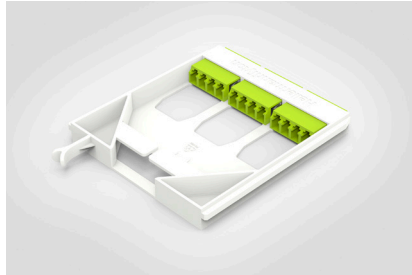
ULTRA12 & ULTRA8

RapidNet ULTRA AMC

RapidNet ULTRA Adaptor Mounting Cassettes (AMC) are factory loaded with specified adaptors including LC, SN, CS and MTP. The AMC facilitates mating between assembly connectors including MTP trunk and harness cables, small form factor and very small form factor, fanout, harness and jumper cables.



RapidNet ULTRA12 AMC (front view).



RapidNet ULTRA12 AMC (rear view).

Features and Benefits:

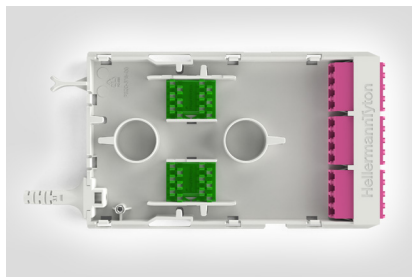
- Available in ULTRA12 and ULTRA8 cassette footprints
- Supports singlemode UPC / APC and multimode UPC Adaptors
- Can be pre-loaded with LC, CS, SN or MTP connectivity
- LC offers 144f per 1U — MTP 16f offers 1152f Per 1U
- Ideal for managing patching fields and fan-out cables

RapidNet ULTRA Splice Cassette

RapidNet ULTRA Splice Cassettes are available in the ULTRA12 (Base-12) format only. RapidNet ULTRA Splice cassettes offer a convenient and flexible solution for on-site splicing of high density fibre systems and are ideal for maintenance and repair scenarios. Each cassette is preloaded with 12 pigtailed and corresponding adaptors.



RapidNet ULTRA12 Splice Cassette (front view).



RapidNet ULTRA12 Splice Cassette (top view - open).

Features and Benefits:

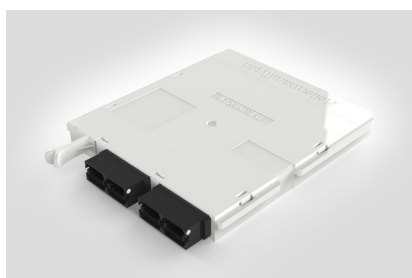
- Available in ULTRA12 cassette footprint only
- Supports OS2 G657-A1, OM4 & OM5
- Supports LC, CS, SN front presentation connectivity
- Pre-loaded pigtailed and adaptors
- Convenient and flexible option for low volume MACs
- Best in class ultra low loss connectivity

RapidNet ULTRA MTP Shuffle Cassette

RapidNet ULTRA MTP Shuffle Cassettes are designed to support the growing implementation of Mesh or Spine & Leaf network architectures in today's advanced Data Centre. The Shuffle cassette is produced with 4x MTP at the front and rear using 12f MTP elite connectors. It can also be produced with 16f MTP elite connectors to support next generation, high bandwidth ethernet. Available for both singlemode or multimode applications.



RapidNet ULTRA MTP Shuffle Cassette (front view).



RapidNet ULTRA MTP Shuffle Cassette (rear view).

Features and Benefits:

- Available in ULTRA12 cassette footprint only
- Supports OS2 G657-A1, OM4 & OM5
- Pre-Loaded with 4x MTP Rear & 4x MTP Front
- Supports 12f MTP For today's data centre network architecture
- Can support 16f MTP ready for next generation ethernet

RapidNet ULTRA Cassette Housing

RapidNet ULTRA Series housings are industry standard 19" mountable hardware for housing both RapidNet ULTRA8 (Base-8) and ULTRA12 (Base-12) cassettes.

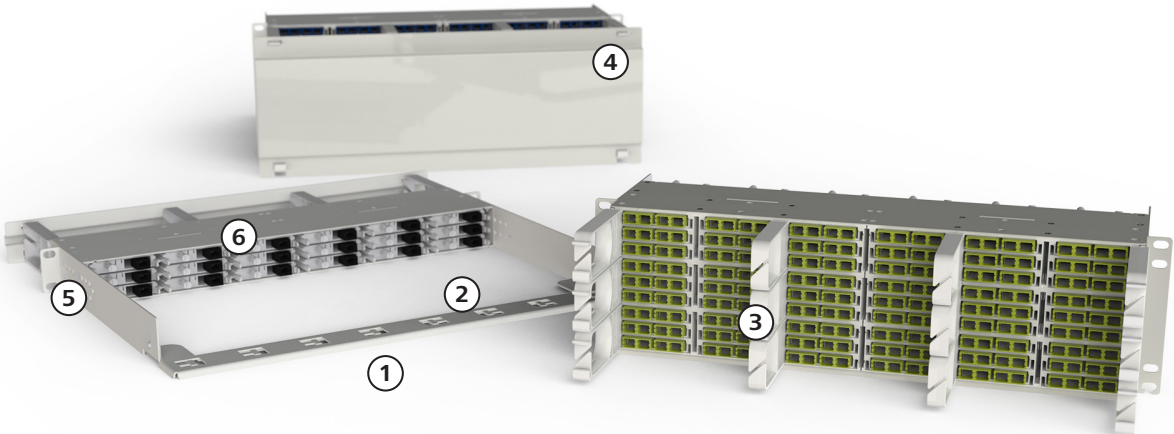
Available in 1U, 2U, 3U & 4U heights Housings come standard with integrated rear cable management support, adjustable side mounting brackets, integrated front patchcord management rings and removable swing down patching field cover. A port identification labelling matrix is pre-installed on the inside of the cover.

The housings come pre-assembled with mounting kit, ready to install straight into the rack. Painted with RAL 9003 Signal white to increase light reflectance which helps to improve in rack visibility alongside supporting reduced energy costs from lighting.

Features and Benefits:

- High fibre density: LC 144f, CS 216f, SN 288f per U
- Rear loading cassettes
- Integrated rear cable management
- Integrated front patchcord management rings
- Adjustable mounting brackets
- Patching field swing down cover
- Identification label matrix
- 19" Mounting profile
- Signal White RAL 9003
- Fast, one person installation

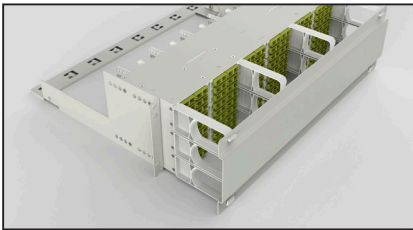
Housing Size		1U	2U	3U	4U
Cassette Capacity	Base-8	18	36	54	72
	Base-12	8	16	24	32
No. of Rows		3	6	9	12
Fibre Capacity (LC)		144f	288f	432f	576f
Fibre Capacity (CS)		216f	432f	648f	864f
Fibre Capacity (SN)		288f	576f	864f	1152f



1 Easy one person installation

3 Integrated front management rings

5 Adjustable mounting profiles



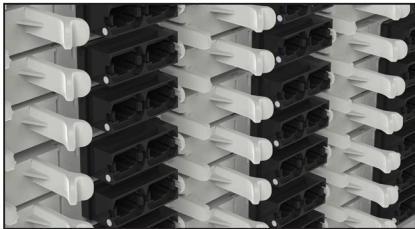
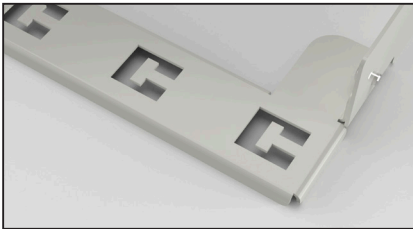
2 Integral cable management
Supports incoming cables and fanout manifolds



4 Removable drop down patching field cover + port ID matrix



6 Rear plug & play cassette entry



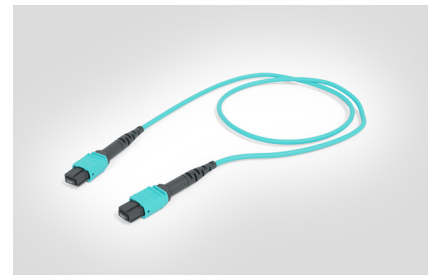
ULTRA12 & ULTRA8

RapidNet ULTRA Multi-Fibre Assemblies

RapidNet ULTRA Multi-Fibre Assemblies are designed, manufactured and tested to the highest quality to support critical data centre infrastructure and sensitive high bandwidth multi-fibre systems. The fibre assemblies all benefit from best in class ultra-low loss connectivity. Assemblies are produced using 3.0mm round cable for multi-fibre cables or 2.0mm cable for the fan-out legs helping reduce overall cable volume in containment and maintain good air flow within the rack or cabinet. Multi-Fibre Assemblies can be made bespoke to your requirement, giving you choice and flexibility in your network design. Fibre assemblies are available in a variety of fibre counts and specifications to support OS2, OM4 and OM5 facilitating requirements from 10G to 400G and beyond.

MTP Trunk Cables

MTP Trunk Cables support backbone requirements and cross-connection patching within a data centre network. Available as standard with female (non-pinned) MTP Elite Connectors and benefiting from 3.0mm multi-fibre micro cables for optimised airflow and cable volume reduction.

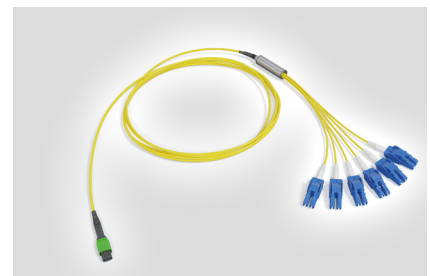


RapidNet ULTRA MTP Trunk Cable.

MTP Harness Links

MTP Harness Links are designed to offer a breakout from multi-fibre MTP connectivity to LC connectivity or very small form factor connectors such as CS or SN. Harness links are designed to enable interconnection between active equipment and patching interfaces or create a cross-connect point between passive patching fields.

Available in singlemode and multimode, harness links benefit from LC uni-boot connectors and female (non-pinned) MTP Elite connectors.

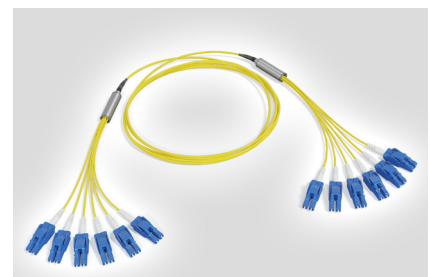


RapidNet ULTRA MTP Harness Link.

Multi-Fibre Assemblies

Multi-Fibre Assemblies are produced with a variety of cable and connector combinations. Options include LC, MTP, CS and SN connectors.

Available with either single and double jackets supporting singlemode and multimode specifications with fibre counts from 8 to 144. Multi-Fibre Assemblies offer an effective way to rapidly deploy patching where higher density is required while reducing installation time and risk of error.



RapidNet ULTRA Multi-Fibre Assembly.

Fibre Jumpers

Fibre Jumpers are produced with field reverse-polarity Uni-boot LC connectors. The 2-fibre 1.85mm diameter single round cable design adds to the overall reduction of space taken up by patching cables and supports the increasing requirement for high-density installations.

Jumpers are available in both multimode and singlemode fibre, with specifications carrying a superior macro-bending performance with minimal bend-induced attenuation loss which tolerates a minimum bend-radius of 10 mm, reducing signal decay and system downtime. Other connectivity options include CS and SN connectors with both UPC and APC polishes available for singlemode applications.



RapidNet ULTRA Fibre Jumper.

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