



## RapidNet 6 Port Category 6A U/FTP

### Cassette to Cassette

#### Application/Product Description

The HellermannTyton Deca<sup>10</sup> Cassette to Cassette is pre-terminated with 6 Deca<sup>10</sup> keystone jacks earthed to a plate within the cassette. The Deca<sup>10</sup> Cassette presents 6 RJ45 ports in one cassette with the loom being terminated with a cassette at each end.

The Category 6A RapidNet looms are designed and tested to support Primary (Campus), Secondary (Riser) and Tertiary (Horizontal) applications for 10Base-T (Ethernet), 100Base-T(Fast Ethernet), 1000Base-T(Gigabit Ethernet), 10GBase-T(10-Gigabit Ethernet), PoE and PoE+.

When used with HellermannTyton Category 6A RapidNet patch panels, outlets and patch leads the combined performance exceeds Category 6A/Class EA link and channel requirements.

RapidNet Category 6A looms are available in lengths from 5m to 90m.



RapidNet Category 6A Cassette to Cassette

#### Cable Specification

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	≤165Ω/km
Resistance Unbalance	≤2%
Insulation Resistance (500V)	≥2000MΩ x km
Capacitance at 800Hz	Nom. 43nF/km
Capacitance Unbalance (pair to ground)	≤1500pF/km
Characteristic Impedance (1-100MHz)	(100 ± 15)Ω
Nominal Velocity of Propagation	Approx. 66%
Propagation Delay	Nom. ≤427ns/100m
Delay Skew	Nom. ≤12ns/100m
Test Voltage (DC, 1 min) Core/Core	1000v

#### Cable and Cassette Standards

##### Cable

- BS EN 50173
- ISO 11801:2002 (inc. Amend. A1 & A2)
- ANSI/TIA/EIA 568-C.2
- IEC 61156-5
- BS EN 50288-10-1

##### Cable Sheath

- IEC 60332-1
- IEC 60754-2
- IEC 61034

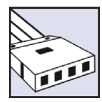
##### Category 6A Cassette

- ISO 11801:2002 (inc. Amend. A1 & A2)
- BS EN 50173
- ANSI/TIA/EIA 568-C.2

#### RapidNet Loom Performance Characteristics

Frequency (MHz)		1	250	500
Insertion Loss (dB/100m)	Spec	3.0	29.5	43.8
	Typical	1.7	22.7	33.0
NEXT (dB)	Spec	65.0	35.3	26.7
	Typical	89.4	45.9	39.9
ACR-N (dB)	Spec	62.0	5.8	-17.1
	Typical	87.7	23.2	6.9
Return Loss (dB)	Spec	19.1	10.0	8.0
	Typical	24.0	25.0	18.6
PS-NEXT (dB)	Spec	62.0	32.7	23.8
	Typical	84.0	41.0	34.4
PS ACR-N (dB)	Spec	59.0	3.2	-20.0
	Typical	82.3	18.3	1.4
ACR-F (dB/100m)	Spec	64.2	16.2	10.2
	Typical	80.6	39.1	35.9
PS ACR-F (dB/100m)	Spec	61.2	13.2	7.2
	Typical	75.3	33.5	30.0

\*Typical values are for permanent link tests when using the complete HellermannTyton Data System.

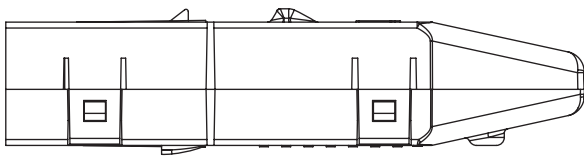


Cassette Specification

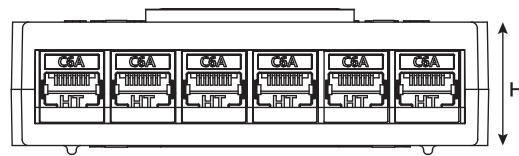
<b>Port Count</b>	6		
<b>Dimensions (mm)</b>	H	W	D
	31.0	107.0	130.0
<b>Outlet Style</b>	RJ45		
<b>RJ45 Jack Life</b>	Minimum Insertions 1000		

Cassette Materials		Jack Materials	
<b>Cassette Cover</b>	Polycarbonate ABS	<b>Modular Jack Housing</b>	Zinc Alloy
<b>Colour</b>	Black	<b>Colour</b>	Nickel
<b>Earth Plate</b>	Zinc Plated Steel	<b>Contacts</b>	Phosphor Bronze Nickel Plated with Selective Gold

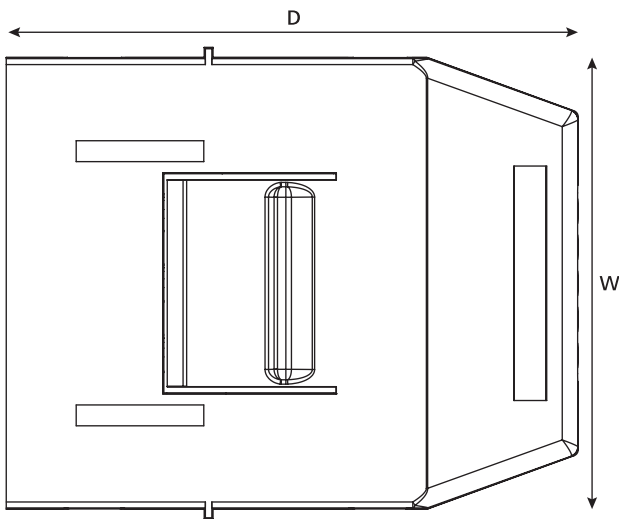
Technical Diagrams



Side view



Front view



Top view