



RapidNet 6 Port Category 6A UTP

Cassette to Bare End

Application/Product Description

The HellermannTyton Category 6A UTP GST Cassette to Bare End is pre-terminated with 6 GST RJ45 ports within the cassette and the other end is left unterminated.

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 UTP Cassette to Bare End

Cable Specification

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	≤9.38Ω/100m
Resistance Unbalance	≤5%
Insulation Resistance (500V)	≥100MΩ - 305m
Capacitance at 800Hz	Nom. 43nF/km
Capacitance Unbalance (pair to ground)	≤300pF/100m
Characteristic Impedance (1-100MHz)	(100 ± 15)Ω
Nominal Velocity of Propagation	Approx. 67%
Propagation Delay	≤534+36ns/√(Freq), 1 - 500MHz
Delay Skew	≤45ns, 1 - 500MHz
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

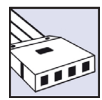
Category 6A Cassette

- 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	0.4	6.3	9.5
NEXT (dB)	Spec	65.0	35.3	26.7
	Typical	92.2	49.6	40.4
ACR-N (dB)	Spec	62.0	5.8	-17.1
	Typical	91.8	43.3	30.9
Return Loss (dB)	Spec	19.1	10.0	8.0
	Typical	25.1	32.4	19.0
PS-NEXT (dB)	Spec	62.0	32.7	23.8
	Typical	86.6	43.9	33.6
PS ACR-N (dB)	Spec	59.0	3.2	-20.0
	Typical	86.2	37.5	24.1
ACR-F (dB/100m)	Spec	64.2	16.2	10.2
	Typical	87.5	44.5	34.3
PS ACR-F (dB/100m)	Spec	61.2	13.2	7.2
	Typical	80.1	37.3	27.1

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

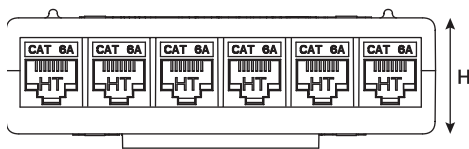


Cassette Specification

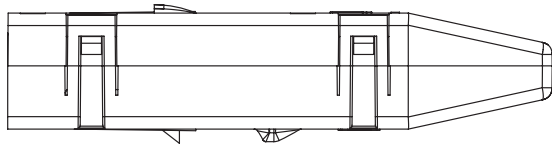
Port Count	6		
Dimensions (mm)	H	W	D
	31.0	107.0	130.0
Outlet Style	GST RJ45		
RJ45 Jack Life	Minimum Insertions 1000		

Cassette Materials		Jack Materials	
Cassette Cover	Polycarbonate ABS	Modular Jack Housing	Polybutylene
Colour	Black	Contacts	Copper Alloy/Selected Gold Plate

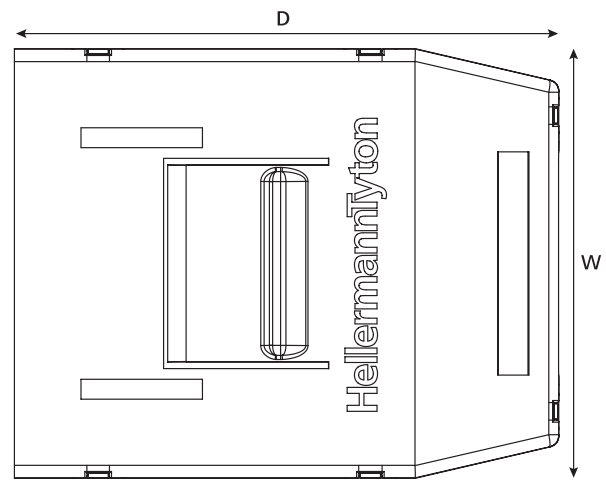
Technical Diagrams



Front view



Side view



Top view