

U/UTP LSZH 6 Port

Short Cassette to RJ45 Plug

Application/Product Description

The HellermannTyton Category 6 Short Cassette to Fan Out is pre-terminated with 6 RJ45 ports within the cassette and with 6 RJ45 plugs at the other end.

The Category 6 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), PoE and PoE+.

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

RapidNet Category 6 looms are available in lengths from 1m to 90m.



RapidNet Category 6 UTP Short Cassette to RJ45 Plug

Cable Specification

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	$\leq 165\Omega/\text{km}$
Resistance Unbalance	$\leq 2\%$
Insulation Resistance (500V)	$\geq 2000\text{M}\Omega \times \text{km}$
Capacitance at 800Hz	Nom. 43nF/km
Capacitance Unbalance (pair to ground)	$\leq 1500\text{pF/km}$
Characteristic Impedance (1-100MHz)	$(100 \pm 15)\Omega$
Nominal Velocity of Propagation	Approx. 66%
Propagation Delay	Nom. $\leq 427\text{ns}/100\text{m}$
Delay Skew	Nom. $\leq 12\text{ns}/100\text{m}$
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 6 Cassette

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

RapidNet Loom Performance Characteristics

Frequency (MHz)		1	100	250
Insertion Loss (dB/100m)	Spec	3.0	18.6	31.1
	Typical	1.5	15.6	25.1
NEXT (dB)	Spec	65.0	41.8	35.3
	Typical	92.5	62.0	47.0
ACR-N (dB)	Spec	62.0	23.3	4.2
	Typical	91.0	46.4	21.9
Return Loss (dB)	Spec	19.1	14.0	10.0
	Typical	26.6	32.7	25.8
PS-NEXT (dB)	Spec	62.0	39.3	32.7
	Typical	86.7	56.7	41.5
PS ACR-N (dB)	Spec	59.0	20.7	1.6
	Typical	85.2	41.1	16.4
ACR-F (dB/100m)	Spec	64.2	24.2	16.2
	Typical	81.9	42.7	35.3
PS ACR-F (dB/100m)	Spec	61.2	21.2	13.2
	Typical	76.4	37.0	30.5

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

Cassette Specification

Port Count	6		
Dimensions (mm)	H	W	D
	27.0	102.0	60.0
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

