

RapidNet 6 Port Category 5e

Cassette to Pod

Application/Product Description

The HellermannTyton Category 5e Cassette to Pod is a pre-terminated solution which cassette presents 6 RJ45 ports in one cassette with the loom being terminated with a 6 port pod containing Alpha Snap RJ45 outlets at the other end.

The Category 5e 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 5e patch panels, outlets and patch leads the combined performance exceeds Category 5e/Class D link and channel requirements.

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



RapidNet Category 5e Cassette to Pod

Cable Specification

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	≤169Ω/km
Resistance Unbalance	≤2%
Insulation Resistance (500V)	≥2000MΩxkm
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

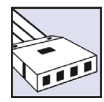
Category 5e Cassette

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

RapidNet Loom Performance Characteristics

Frequency (MHz)		1	10	100
Insertion Loss (dB/100m)	Spec	3.0	6.2	21.0
	Typical	1.6	5.0	16.3
NEXT (dB)	Spec	60.0	48.5	32.3
	Typical	83.5	70.7	54.2
ACR-N (dB)	Spec	57.0	42.3	11.3
	Typical	82.0	65.7	38.0
Return Loss (dB)	Spec	19.0	19.0	12.0
	Typical	27.6	38.1	30.8
PS-NEXT (dB)	Spec	57.0	45.5	29.3
	Typical	78.2	65.0	49.0
PS ACR-N (dB)	Spec	54.0	39.3	8.3
	Typical	76.6	60.0	32.7
ACR-F (dB/100m)	Spec	58.6	38.6	18.6
	Typical	78.0	57.9	39.5
PS ACR-F (dB/100m)	Spec	55.6	35.6	15.6
	Typical	72.3	52.5	34.2

*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	RJ45		
RJ45 Jack Life	Minimum Insertions 1000		

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

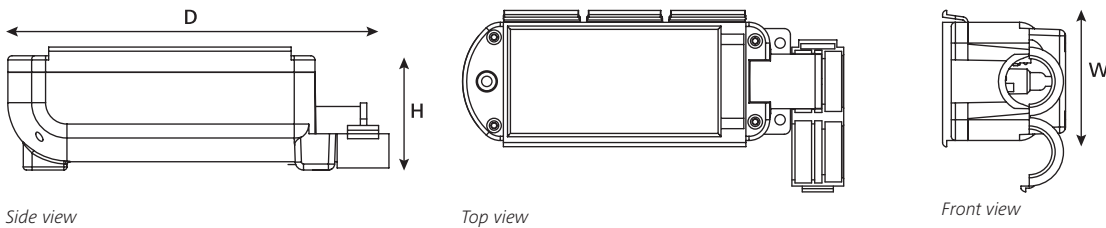
Pod Specification

Port Count	6		
Dimensions (mm)	H	W	D
	59.7	183.9	65.7
Outlet Style	RJ45		
RJ45 Jack Life	Minimum Insertions 1000		

Pod Materials		Jack Materials	
Pod Cover	ABS	Modular Jack Housing	ABS
Colour	White	Contacts	Phosphor Bronze Nickel Plated with Selective Gold

Technical Diagrams

Pod



6 Port

