

## RapidNet 6 Port Category 5e

### Cassette to Bare End

#### Application/Product Description

The HellermannTyton Category 5e Cassette to Bare End is pre-terminated with 6 RJ45 ports within the cassette and the other end is left unterminated.

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.

#### 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            |



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#### 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

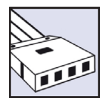
##### Category 5e Cassette

- 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.

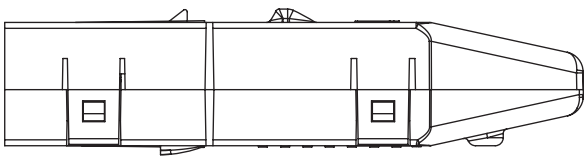


**Cassette Specification**

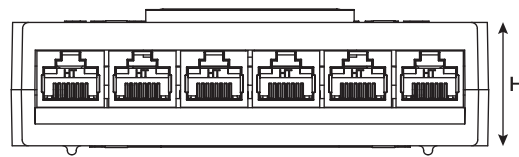
|                        |                         |       |       |
|------------------------|-------------------------|-------|-------|
| <b>Port Count</b>      | 6                       |       |       |
| <b>Dimensions (mm)</b> | H                       | W     | D     |
|                        | 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> | Polybutylene                     |
| <b>Colour</b>         | Black             | <b>Contacts</b>             | Copper Alloy/Selected Gold Plate |

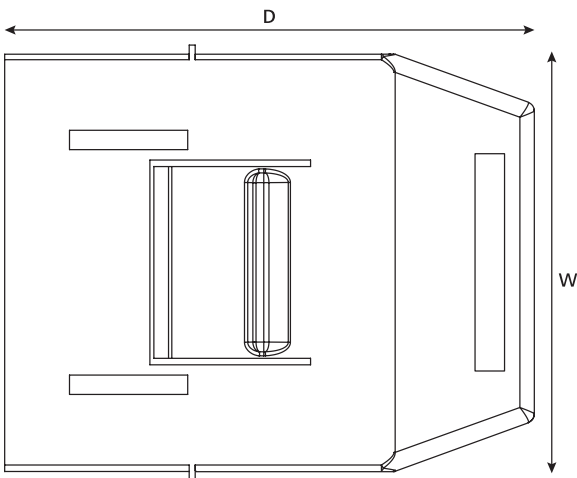
**Technical Diagrams**



Side view



Front view



Top view