

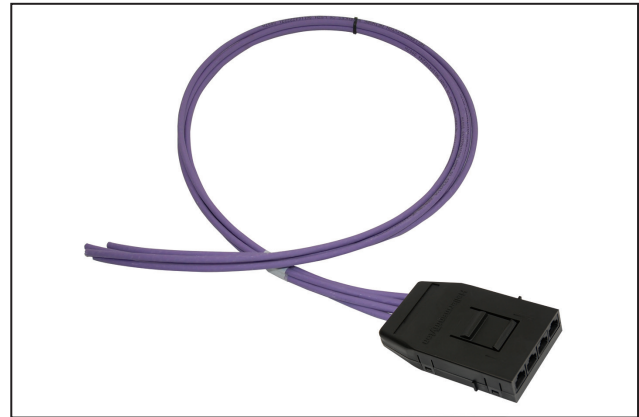
**6****RapidNet 4 Port Category 6****Cassette to Bare End****Application/Product Description**

The HellermannTyton Category 6 Cassette to Bare End is pre-terminated with 4 RJ45 ports within the cassette and the other end is left unterminated.

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 5m to 90m.



RapidNet 4 Port Category 6 Cassette to Bare End

Cable Specification

| Electrical Characteristics @ 20°C | Specification |
|--|------------------|
| DC Loop Resistance | ≤165Ω/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

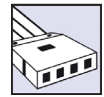
Category 6 Cassette

- 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.

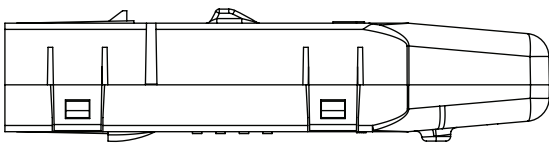


Cassette Specification

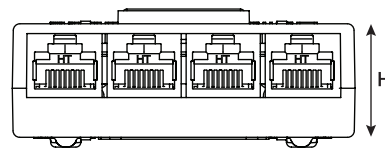
| | | | |
|------------------------|-------------------------|------|-------|
| Port Count | 4 | | |
| Dimensions (mm) | H | W | D |
| | 28.0 | 70.0 | 116.0 |
| Outlet Style | RJ45 | | |
| RJ45 Jack Life | Minimum Insertions 1000 | | |

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

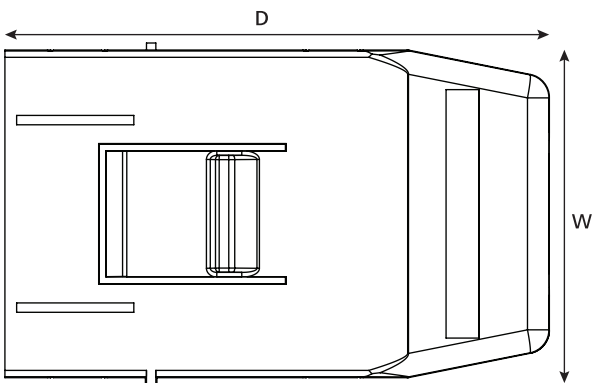
Technical Diagrams



Side view



Front view



Top view