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HellermannTyton

Category 6
Patch Leads

Technical Data Sheet

## U/UTP Stranded

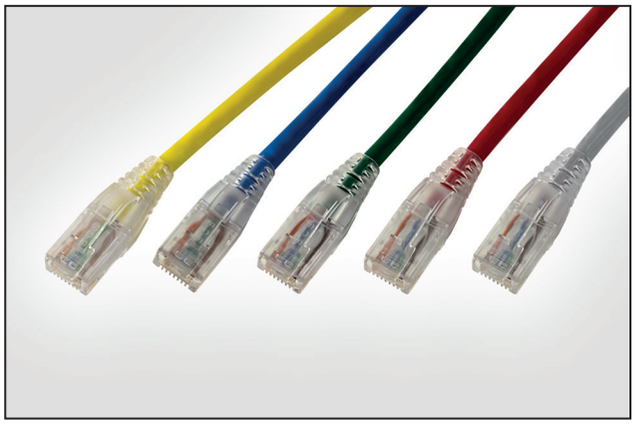
### Patch Leads

#### Application/Product Description

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

The patch leads are supplied standard 1m, 2m, 3m, 5m lengths in blue, green, grey, red and yellow, other lengths and colours are available on request.



*Category 6 LS0H Unshielded Patch Leads*

#### Technical Data

| Electrical Characteristics @ 20°C | Specification |
|---|---|
| DC Loop Resistance | 140Ω/km |
| Resistance Unbalance | 5% |
| Insulation Resistance | 5000MΩ/km |
| Capacitance Unbalance (pair to ground) | ≤330pF/100m |
| Delay Skew | 45ns/100m |
| NVP (Nominal Velocity of Propagation) | 65% |

#### Cable Standards

**Cable**

- ISO 11801:2002 (inc. Amend. A1 & A2)
- ANSI/TIA/EIA 568-C.2
- IEC 61156-6

**Cable Sheath**

- IEC 60332-1

#### Performance Characteristics

| Frequency (MHz) | | 1 | 100 | 250 |
|---|---|---|---|---|
| NEXT (dB) | Spec | 65.0 | 46.4 | 38.8 |
| | Typical | 95.9 | 59.4 | 49.5 |
| Return Loss (dB) | Spec | 19.8 | 18.0 | 14.0 |
| | Typical | 38.5 | 27.6 | 28.1 |

**Typical values based on a 2m patch lead.*



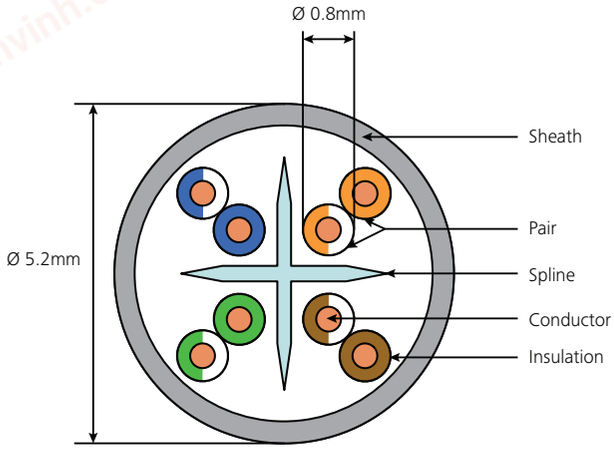
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### Cable Construction




| Product Performance | |
|---|---|
| **Core** | |
| Core Conductor: | 26 AWG Stranded Copper Wire |
| Conductor Diameter: | 0.16±0.02mm |
| Insulation: | HDPE |
| Insulation Diameter: | 0.80±0.05mm |
| Twisting: | 2 cores to the pair |
| Pair Colour: | Blue-White/Blue, Orange-White/Orange, Green-White/Green, Brown-White/Brown |
| **Final Assembly** | |
| Cable | 4 pairs to the core |
| Sheath | LS0H Blue, Green, Grey, Red, Yellow |
| Outer Diameter | 5.2mm ± 0.3mm |
| **Mechanical and Environmental** | |
| Temp. Operation | -20°C to +75°C |
| Min. Bend Radius | |
| During Installation: | 8 x outer diameter |
| During Operation: | 12 x outer diameter |
| Max. Tensile Force: | |
| During Installation | 110N |
| Packaged Weight | 42kg/km |



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