

## Category 6 U/UTP 23AWG Unshielded Cable Dca

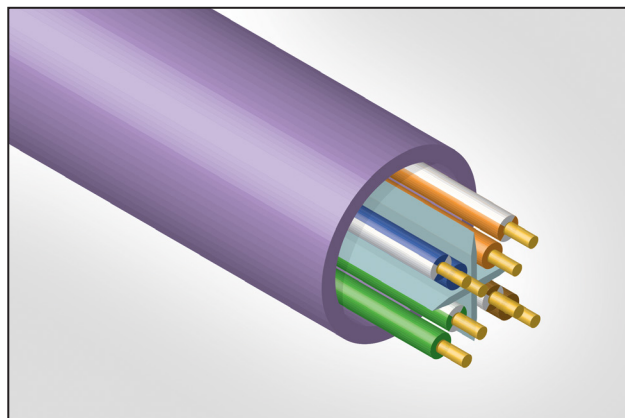
### Bulk Copper Cable - CA076DCA

#### Application/Product Description

HellermannTyton Category 6 cables 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.

The cable is supplied in 305m lengths with 1 metre markings on the cable supplied in a box.



CA076DCA - Category 6 LS0H Unshielded Cable - Dca

#### Technical Data

| Electrical Characteristics @ 20°C      | Specification    |
|----------------------------------------|------------------|
| DC Loop Resistance                     | ≤176Ω/km         |
| Resistance Unbalance                   | ≤2%              |
| Insulation Resistance (500V)           | 5000MΩxkm        |
| Capacitance at 800Hz                   | Nom. 48nF/km     |
| Capacitance Unbalance (pair to ground) | ≤1500pF/km       |
| Characteristic Impedance (1-100MHz)    | (100 ± 15)Ω      |
| Nominal Velocity of Propagation        | Approx. 66%      |
| Propagation Delay                      | Nom. ≤535ns/100m |
| Delay Skew                             | Nom. ≤20ns/100m  |
| Test Voltage (DC, 1 min) Core/Core     | 1000V            |

#### Cable 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
- CE & UKCA Approved

##### Cable Sheath

- IEC 60332-3-24
- EN 13501-6 (Dca)

##### CPR

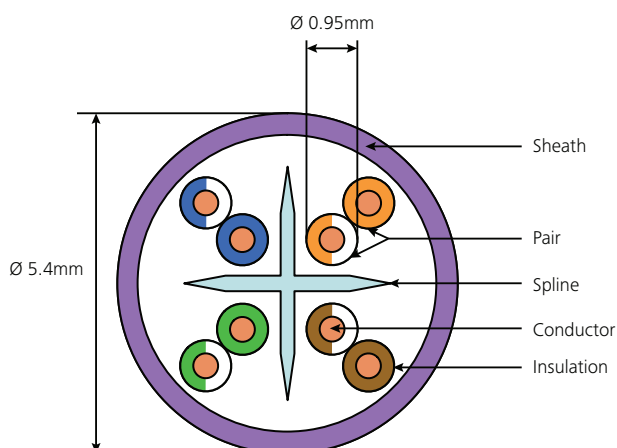
- Dca, S2, d2, a1
- Certificate No.: HTCDOP-0003 / HTCDOP-0003-UKCA
- Suitable for Dca and Eca specified installations

#### Performance Characteristics

| Frequency (MHz)          |         | 1    | 100  | 250  |
|--------------------------|---------|------|------|------|
| Insertion Loss (dB/100m) | Max     | 2.1  | 19.9 | 33.0 |
|                          | Nominal | 1.9  | 19.1 | 32.0 |
| NEXT (dB)                | Max     | 74.0 | 44.0 | 38.0 |
|                          | Nominal | 78.0 | 48.0 | 42.0 |
| PS-NEXT (dB)             | Max     | 72.0 | 42.0 | 36.0 |
|                          | Nominal | 75.0 | 45.0 | 39.0 |
| ACR-F (dB/100m)          | Max     | 72.0 | 24.1 | 5.0  |
|                          | Nominal | 76.1 | 28.9 | 10.0 |
| PS ACR-F (dB/100m)       | Max     | 70.0 | 22.1 | 2.0  |
|                          | Nominal | 73.1 | 25.9 | 7.0  |
| Return Loss (dB)         | Max     | 20.0 | 20.1 | 17.3 |
|                          | Nominal | 22.0 | 23.0 | 19.0 |

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

## Cable Construction



| Product Performance          |                                                                            |
|------------------------------|----------------------------------------------------------------------------|
| Core                         |                                                                            |
| Core Conductor               | 23 AWG Solid Copper Wire                                                   |
| Insulation                   | Polyethylene                                                               |
| Diameter                     | 0.95mm nominal                                                             |
| 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                       | LSHF-FR Dca-S2, d2, a2                                                     |
| Colour                       | Violet RAL 4001                                                            |
| Outer Diameter               | 5.4mm nominal                                                              |
| Mechanical and Environmental |                                                                            |
| Temp. Installation           | 0°C to +50°C                                                               |
| Temp. Operation              | -20°C to +60°C                                                             |
| Min. Bend Radius             |                                                                            |
| During Installation:         | 8 x outer diameter                                                         |
| During Operation:            | 4 x outer diameter                                                         |
| Max. Tensile Force           |                                                                            |
| During Installation          | 100N                                                                       |
| Packaged Weight              | 12.3kg 305m Box                                                            |