

## Category 6A U/UTP Unshielded Cable - Dca

### Bulk Copper Cable – CA183DCA

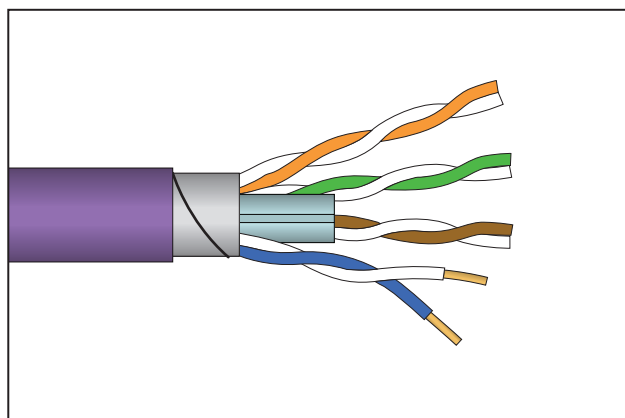
#### Application/Product Description

HellermannTyton Category 6A 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), 10GBase-T(10-Gigabit Ethernet), PoE and PoE+.

When used with HellermannTyton Category 6A patch panels, outlets and patch leads the combined performance exceeds Category 6A/Class EA link and channel requirements.

The cable is supplied in 500m lengths with 1 metre markings on the cable on a drum for easy installation.

The cable is constructed of 4 matched pairs around a central spline. A single discontinuous foil surrounds all 4 pairs.



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#### Technical Data

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	≤158Ω/km
Resistance Unbalance	≤2%
Insulation Resistance (500V)	≥100MΩ - 305m
Capacitance at 800Hz	Nom. 43nF/km
Capacitance Unbalance (pair to ground)	≤1500pF/km
Characteristic Impedance (1-100MHz)	(100 ± 15)Ω
Nominal Velocity of Propagation	66%
Propagation Delay	≤427ns/100m
Delay Skew	≤12ns/100m
Test Voltage (DC, 1 min) Core/Core	1000v

#### Cable Standards

##### Cable

- BS EN 50173BS 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 60332-3-24
- EN 13501-6 (Dca)

##### CPR

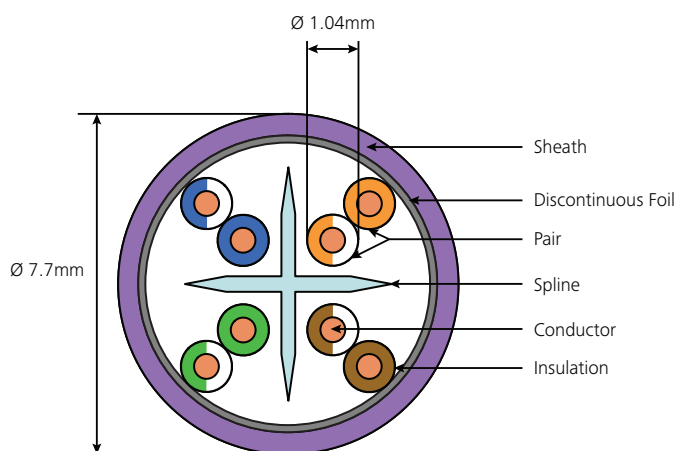
- Dca, S2, d2, a2
- Certificate No.: HTC DOP-CA183-G2-01
- Suitable for Dca and Eca specified installations

#### Performance Characteristics

Frequency (MHz)		1	250	500
Insertion Loss (dB/100m)	Spec	2.1	31.1	45.3
	Typical	1.9	26.4	38.0
NEXT (dB)	Spec	75.3	39.3	34.8
	Typical	98.1	61.7	55.3
PS-NEXT (dB)	Spec	72.3	36.3	31.8
	Typical	92.3	55.8	48.1
ACR-F (dB/100m)	Spec	68.0	20.0	14.0
	Typical	92.2	47.3	36.2
PS ACR-F (dB/100m)	Spec	65.0	17.0	11.0
	Typical	85.7	41.3	29.8
Return Loss (dB)	Spec	20.0	17.3	17.3
	Typical	26.7	44.9	38.0

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

## Cable Construction



Product Performance	
<b>Core</b>	
Core Conductor	23 AWG Solid Copper Wire
Insulation	Polyethylene
Diameter	1.04mm
Twisting	2 cores to the pair
Pair Colour	Blue-White/Blue, Orange-White/Orange, Green-White/Green, Brown-White/Brown
<b>Final Assembly</b>	
Cable	4 pairs to the core
Sheath	LSHF-FR Dca, S2, d2, a2, Violet RAL 4005
Outer Diameter	7.7mm $\pm$ 2.0mm
<b>Mechanical and Environmental</b>	
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
Packaged Weight	19.9kg/km