



Category 6 F/UTP Shielded Cable Dca

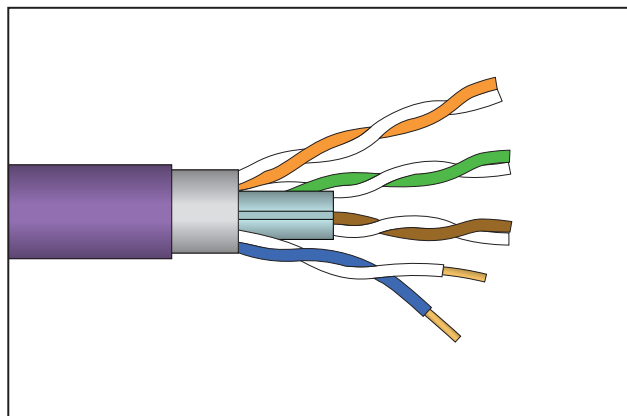
Bulk Copper Cable - CA120DCA

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



CA120DCA - Category 6 F/UTP Shielded Cable - Dca

Technical Data

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 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
- EN 13501-6 (Dca)

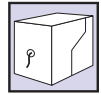
CPR

- Dca - S2, d2, a2
- Certificate No.: HTC DOP-0004
- Suitable for Dca and Eca specified installations

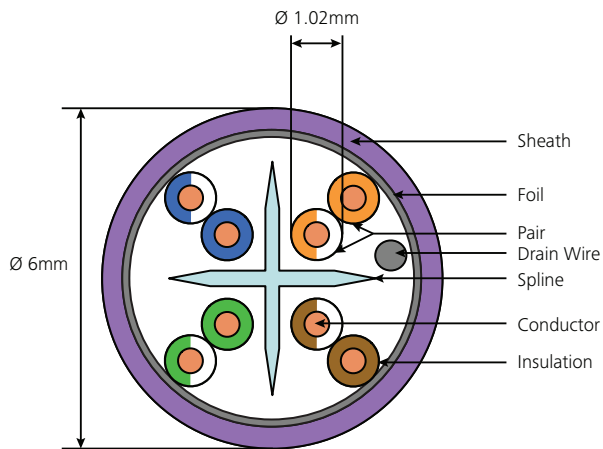
Performance Characteristics

Frequency (MHz)		1	100	250
Insertion Loss (dB/100m)	Spec	2.0	19.8	32.8
	Typical	2.0	17.5	28.0
NEXT (dB)	Spec	74.3	44.3	38.3
	Typical	93.0	64.6	58.3
PS-NEXT (dB)	Spec	72.3	42.3	36.3
	Typical	86.0	58.7	51.8
ACR-F (dB/100m)	Spec	67.8	27.8	19.8
	Typical	105.4	60.6	47.0
PS ACR-F (dB/100m)	Spec	64.8	24.8	16.8
	Typical	98.7	55.2	40.9
Return Loss (dB)	Spec	20.0	20.1	17.3
	Typical	26.8	35.0	31.1

*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	1.02mm
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
Overall Screen	PET/Al-laminated plastic foil
Sheath	LSHF - FR -Dca-S2,d2,a2
Colour	Violet RAL 4001
Outer Diameter	6.0mm \pm 0.2mm
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	26.5kg - 500m Drum