



Category 6A U/FTP Shielded Cable - Dca

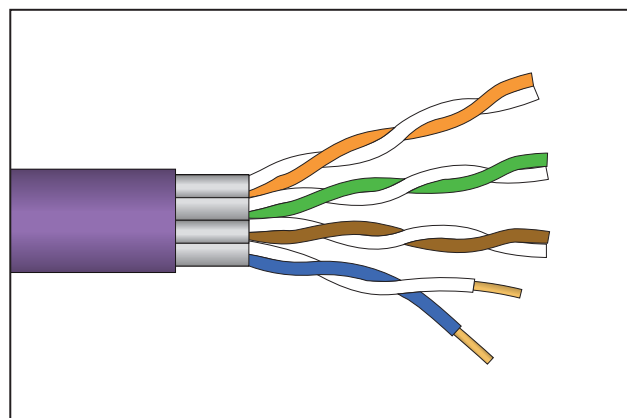
Bulk Copper Cable - CA159DCA

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.



CA159DCA - Category 6A U/FTP Shielded Cable - Dca

Technical Data

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	≤156Ω/km
Resistance Unbalance	≤2%
Insulation Resistance (500V)	≥2000MΩ x km
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. 78%
Propagation Delay	Nom. ≤427ns/100m
Delay Skew	Nom. ≤12ns/100m
Test Voltage (DC, 1 min) Core/Core	1000v
Segregation Classification - EN50174-2	"C"

Cable Standards

Cable

- EN50575:2014+A1:2016
- 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 & 60332-3-24
- IEC 60754-2
- IEC 61034
- EN 13501-6 (Cca)

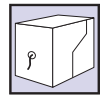
CPR

- Dca, S2, d2, a2
- Certificate No.: HTC DOP-0006
- Suitable for Dca and Eca specified installations

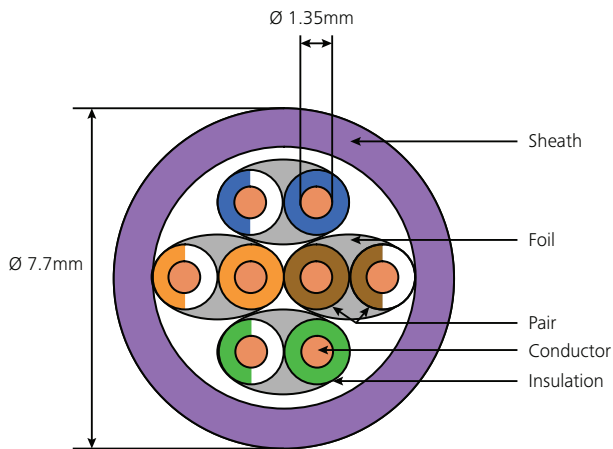
Performance Characteristics (Nominal)

Frequency (MHz)		1	250	500
Insertion Loss (dB/100m)	Spec	1.8	28.1	44.8
NEXT (dB)	Spec	100.0	90.0	85.0
PS-NEXT (dB)	Spec	97.0	87.0	82.0
ACR-F (dB/100m)	Spec	105.0	69.0	61.0
PS ACR-F (dB/100m)	Spec	105.0	66.0	58.0
Return Loss (dB)	Spec	-	24.0	22.0

*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	1.35mm (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	7.7mm 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 OD
During Operation:	4 x OD
Packaged Weight	27kg (500m/Drum)