



Category 6A U/FTP Shielded Cable - CCA

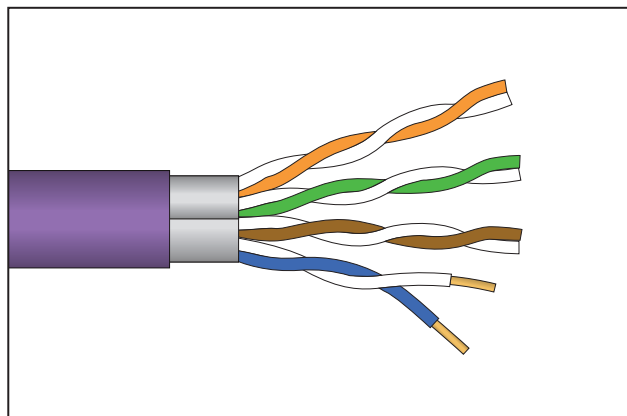
Bulk Copper Cable

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.



Category 6A U/FTP Shielded Cable

Technical Data

Electrical Characteristics @ 20°C	Specification
DC Loop Resistance	$\leq 154\Omega/\text{km}$
Resistance Unbalance	$\leq 2\%$
Insulation Resistance (500V)	$\geq 2000\text{M}\Omega \times \text{km}$
Capacitance at 800Hz	Nom. 43nF/km
Capacitance Unbalance (pair to ground)	$\leq 1500\text{pF/km}$
Characteristic Impedance (1-100MHz)	$(100 \pm 15)\Omega$
Nominal Velocity of Propagation	Approx. 66%
Propagation Delay	Nom. $\leq 427\text{ns}/100\text{m}$
Delay Skew	Nom. $\leq 12\text{ns}/100\text{m}$
Test Voltage (DC, 1 min) Core/Core	1000v

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)

This cable complies with the requirements within the Construction Products regulations EN50575:2014+A1:2016 - Power, control and communication cables. Cables for general applications in construction works subject to reaction to fire requirements.

A copy of the Declaration Of Performance is available from HellermannTyton upon request. Please quote the part and serial numbers when contacting sales@htdata.co.uk

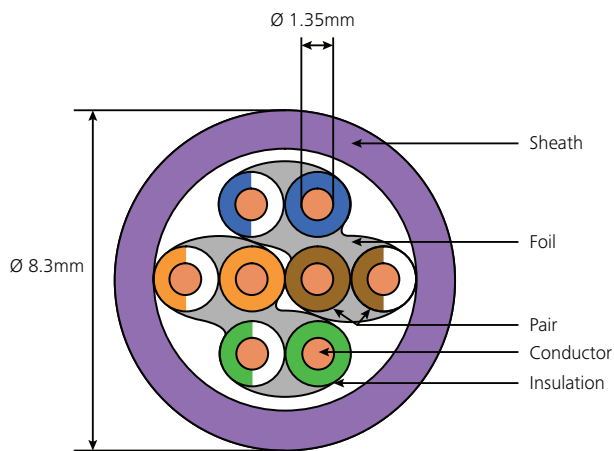
Performance Characteristics (Nominal)

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	LSOH, Violet RAL 4001
Outer Diameter	8.3mm nominal
Mechanical and Environmental	
Temp. Installation	0°C to +50°C
Temp. Operation	-20°C to +60°C
Min. Bend Radius	
During Installation:	
During Operation:	
Packaged Weight	27kg (500m/Drum)