

# Essential-6 Cable

ESSENTIAL-6 U/UTP AWG23 CAT 6 LSZH GB 31247 B1 (D0,T0,A1) DARK GREY 305M/REEL

**Aginode Ref:** N100.170-GB1-D

- Compliant with all Category 6 cable standards
- Supports Class E applications
- Central cross member maintains geometry and performance
- 23AWG conductor size
- GB 31247 B1 (d0,t0,a1) compliance

## Application

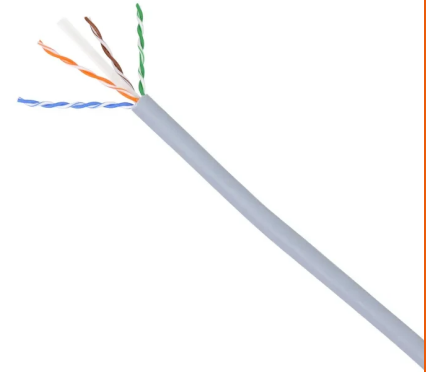
The Aginode Essential-6 cables are manufactured and tested to the latest Category 6 specifications. They are compatible with the complete Essential-6 modular and PCB connectivity range. When the cable is installed in conjunction with Essential-6 outlets and patch panels, a 25 year Class E Link Certificate can be obtained from the Aginode website.

## Performance

Aginode Essential-6 cables are compliant with the requirements of the International, European and American cable standards, including ISO/IEC 11801, IEC 61156-5, EN 50173, EN 50288 and TIA/EIA 568-C.2.

## Installation

To support the correct set-up of hand held analysers for installation testing, the actual cable NVP value is given in the cable's print legend.



## STANDARDS

ANSI/TIA-568-C.2  
EN 50173-1  
EN 50288  
GB 31247  
IEC 61156-5  
ISO/IEC 11801-1

# Essential-6 U/UTP AWG23 CAT 6 LSZH GB 31247 B1 (d0,t0,a1) Dark Grey 305M/Reel

## Characteristics

### Construction characteristics

Colour	Dark Grey
Outer sheath	LSZH
Type of cable	UTP

### Dimensional characteristics

Conductor cross-section (AWG/KCMIL)	23
Diameter over insulation	1.0 mm
Nominal outer diameter (mm)	6.2 mm

### Electrical characteristics

Mutual capacitance	56 nF/km
Characteristic impedance	100 Ohm
Max. DC resistance of the conductor at 20°C (Ohm/km)	93.8

### Mechanical characteristics

Maximum operating pulling force	100 N
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### Transmission characteristics

Skew	45 ns/100m
Propagation delay, max. 100 MHz	536 ns/100m

### Usage characteristics

Range	essential
Field of application	Indoor
Length	305 m
Operating temperature, range	-20...60 °C
Category	Cat. 6
Flame retardant	GB31247 B1 (d0.t0.a1)
Smoke density	IEC 61034-2
Packaging	Drum
Ambient installation temperature, range	0...50 °C
Minimum Bend Radius - During Installation (under Tension)	50 mm
Minimum Bend Radius - Installed	25 mm

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