

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

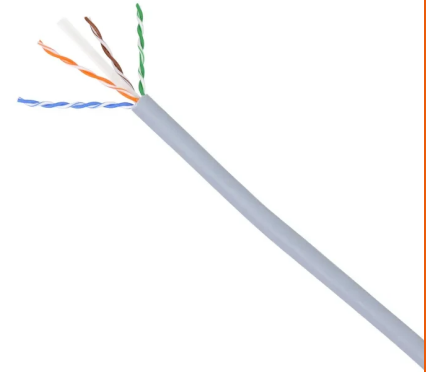
The Aginode Essential-6 cables are manufactured and tested to the latest Category 6 specifications. They are compatible with the complete Essential-6 modular and PCB connectivity range. When the cable is installed in conjunction with Essential-6 outlets and patch panels, a 25 year Class E Link Certificate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

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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