# Essential-6 Cable

**ESSENTIAL-6 U/UTP CAT 6 LSZH 24AWG 305M REELEX BOX**



**Aginode Ref:** N100.161

- Unshielded construction
- Complies to latest Category 6 standards
- Central cross maintains geometry and performance
- Supports Class E applications up to 250 MHz.

## 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.

### Values given for 2-connector channel, built with Essential-6 cable, outlet and patch panel. (Values specified at 20°C)

## STANDARDS

ANSI/TIA-568-C.2
IEC 60332-1
ISO/IEC 11801-1

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# Essential-6 U/UTP Cat 6 LSZH 24AWG 305m reelex box

## Characteristics

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|---|---|
| **Construction characteristics** | |
| Outer sheath | LSZH |
| Type of cable | U/UTP |
| Colour | Orange |
| **Dimensional characteristics** | |
| Conductor cross-section (AWG/KCMIL) | 24 |
| Nominal outer diameter (mm) | 5.4 mm |
| Diameter over insulation | 0.92 mm |
| **Electrical characteristics** | |
| Max. DC resistance of the conductor at 20°C (Ohm/km) | 93.8 |
| Mutual capacitance | 56 nF/km |
| Characteristic impedance | 100 Ohm |
| **Mechanical characteristics** | |
| Maximum operating pulling force | 100 N |
| **Transmission characteristics** | |
| Propagation delay, max. 100 MHz | 536 ns/100m |
| Skew | 45 ns/100m |
| **Usage characteristics** | |
| Packaging | Box 305 m |
| Field of application | Indoor |
| Operating temperature, range | -20...60 °C |
| Minimum Bend Radius - During Installation (under Tension) | 44 mm |
| Minimum Bend Radius - Installed | 22 mm |
| Smoke density | IEC 61034 |
| Ambient installation temperature, range | -10...60 °C |
| Category | Cat. 6 |
| Range | essential-6 |
| Length | 305 m |

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| Flame retardant | IEC 60332-1 |

## Documentation

Freetable Ess6 channel.xls xls — 14 KB Download

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