

# Essential-6 Cable

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

**Aginode Ref:** N100.166

- 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

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

## Characteristics

### 구조적 특성

|               |        |
|---------------|--------|
| 피복            | 폴리염화비닐 |
| Type of cable | U/UTP  |
| 색상            | 담회색    |

### 치수

|                                     |         |
|-------------------------------------|---------|
| Conductor cross-section (AWG/KCMIL) | 24      |
| Nominal outer diameter (mm)         | 5.4 mm  |
| Diameter over insulation            | 0.92 mm |

### 전기적 특성

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

### 기계적 특성

|                                 |       |
|---------------------------------|-------|
| Maximum operating pulling force | 100 N |
|---------------------------------|-------|

### Transmission characteristics

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

### 사용 특성

|   |             |
|---|-------------|
| Packaging                               | Box 305 m   |
| Field of application                    | Indoor      |
| 操作温度范围                                  | -20...60 °C |
| 최소 굽힘 반지름 - 설치시 (장력작용)                  | 44 mm       |
| 최소 굽힘 반지름 - 설치 후                        | 22 mm       |
| 연기밀도                                    | No          |
| Ambient installation temperature, range | -10...60 °C |
| Category                                | Cat. 6      |
| Range                                   | essential-6 |
| Length                                  | 305 m       |

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## 문서

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