

# Essential-5 Cable

ESSENTIAL U/UTP CAT 5E 24AWG PVC BOX 305M

**Aginode Ref:** N100.561

- Unshielded construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz

## Application

Essential-5 cables are the standard 100MHz offering from Aginode. Manufactured and tested to the latest Category 5e specifications defined in the International and American cable standards, they are suitable for voice and data installations for applications up to 100 MHz.

## Design

The Essential-5 cables have AWG 24 solid copper wires and comply with IEC 60228.

The cables are available with a Light Grey PVC or an Orange LSZH sheath. Both versions have flame retardant properties compliant with IEC 60332-1.

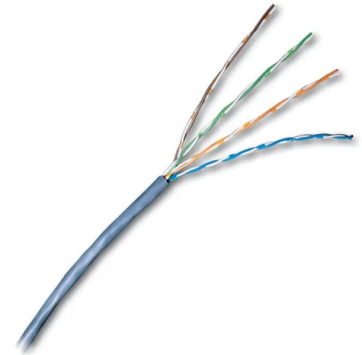
## Performance

Aginode Essential-5 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.

### [General Installation Guide](#)



## STANDARDS

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

# Essential U/UTP Cat 5e 24AWG PVC Box 305M

## Characteristics

### Construction characteristics

Colour	Grey
Screen	Unshielded
Outer sheath	PVC
Type of cable	U/UTP

### Dimensional characteristics

Approximate weight	30 kg/km
Conductor diameter	0.5 mm
Diameter over insulation	0.9 mm
Nominal outer diameter (mm)	4.9 mm

### Electrical characteristics

Characteristic impedance	100 Ohm
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### Mechanical characteristics

Maximum pulling force by laying	0.08 kN
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### Transmission characteristics

Nominal Velocity of Propagation (NVP)	69 %
Propagation delay, max. 100 MHz	536 ns/100m

### Usage characteristics

Electro magnetic interference resistance	No
Range	essential
Length	305 m
Operating temperature, range	-20...60 °C
Category	Cat. 5e
Fire load	400 MJ/km
Flame retardant	IEC 60332-1
Component function	Cable
Packaging	Box
Ambient installation temperature, range	0...50 °C

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Minimum Bend Radius - During Installation (under Tension)	40 mm
Minimum Bend Radius - Installed	20 mm

## Documentation

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