Essential-5 Cable

ESSENTIAL F/UTP CAT5E 24AWG LSZH REEL IN BOX 305M



Aginode Ref: N100.455

- F/UTP single foil construction
- Complies to latest Cat 5E standards
- Supports Gigabit Ethernet
- Guaranteed performance to 100MHz

STANDARDS

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

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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

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Characteristics

Construction characteristics	
Colour	Orange
Screen	Aluminium foil
Outer sheath	LSZH
Type of cable	F/UTP
Dimensional characteristics	
Approximate weight	40 kg/km
Conductor diameter	0.5 mm
Diameter over insulation	1.04 mm
Nominal outer diameter (mm)	6.3 mm
Electrical characteristics	
Characteristic impedance	100 Ohm
Mechanical characteristics	
Maximum pulling force by laying	0.1 kN
Transmission characteristics	
Skew	45 ns/100m
Nominal Velocity of Propagation (NVP)	68 %
Propagation delay, max. 100 MHz	534 ns/100m
Usage characteristics	
Electro magnetic interference resistance	Yes
Range	essential
Length	305 m
Operating temperature, range	-20...60 °C
Category	Cat. 5e
Fire load	460 MJ/km
Flame retardant	IEC 60332-1
Component function	Cable
Packaging	Box

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Ambient installation temperature, range	0...50 °C
Minimum Bend Radius - During Installation (under Tension)	48 mm
Minimum Bend Radius - Installed	30 mm

Documentation

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