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DATASHEET

U/UTP cat. 6 4x2x24AWG PVC ALANTEC Copper cable, warranty 25 years, verify by INTERTEK (USA)

Part no.: **KIU6PVC305**
Manufacture: **ALANTEC**
EAN code: **5901738551398**

Version: **20190424**
Lang.: **EN**



Description

Category 6 U/UTP Cables are manufactured, tested and verified to the ISO/IEC 11801 2nd Edition, EN 50173:2007 and ANSI/TIA/EIA-568-B.2 standards for enhanced performance Category 6 cables. All parameters have been verified by INTERTEK.

Each cable consists of 8 colour coded polyethelene insulated conductors. These are twisted together to form 4 pairs with varying lay lengths. These pairs, together with a strong nylon rip cord are jacketed in a heat resistant LSOH/FRNC or PVC material. The printing detail on the sheath, includes the cables part number, specification details and a unique 305 metre marking within each box supplied, allowing for quick and easy measurement of cable installed and the amount remaining within the box. A choice of jacket colour enables departmental or application identification where necessary.

CONSTRUCTION AND ELECTRICAL

Category:	6
Class:	E (350MHz)
Twisted element:	4x2x24AWG
Conductor:	100% Cu - bare copper wire AWG 24/1
Insulation:	polyethylene
Fire euroclass:	Eca
Screen:	No
Jacket:	FR PVC
PoE:	802.3 af
Color:	Light gray

ELECTRICAL PROPERTIES at 20ºC

Conductor DC Resistance:	≤ 93,8 Ω /km
Changing resistance:	≤ 2%
Insulation resistance (500V):	≥ 5000 MΩ *km
Mutual Capacitance at 800 Hz	nom. 48 nF/km
Changing capacitance passive resistance	≤ 1500 pF/km
Characteristic impedance (1-100MHz)	(100 ± 15) Ω
Nominal Velocity of Propagation (NVP):	69%
Delay spread	Nominal ≤ 535 ns/100m
Angle spread	Nominal ≤ 20 ns/100m
Tester installation DC, 1 min.:	1000 V

MECHANICAL PROPERTIES

Bend Radius:	4 x overall diameter

Max. pulling force:	80 N
Temperature range - work:	-30°C do + 50°C
Temperature range - instalation:	0°C do + 50°C
Outer diameter:	5,9 mm
Weight / km	59 kg
Packing	box (305m)

Gallery / Certificates



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Standards

- EIA/TIA-568-C.2
- ISO 11801 2nd
- EN 50173 2nd
- EN 50288-3-1
- ISO/IEC 61156-5
- IEC 60332-1
- RoHS II 2011/65/UE
- EN 50575:2014+A1:2016
- EN 13501-6:2014
- EN 60332-1-2:2004+A1:2015