Cat 6 U/UTP E_{ca} installation cable

Twisted pair, 250 MHz, Class E, AWG 23/1

Item No.: PN-IK-6-305-U-E (Eca)



Description

The Cat. 6 U/UTP installation cable features the following cable construction: 4x2xAWG23/1 and achieves a transmission frequency of 250 MHz. The cable sheath complies with Euroclass Eca. The cable is suitable for structured building cabling in secondary and tertiary areas. Supplied in a cable box (cardboard) containing 305 m.

Physical & Mechanical Characteristics

Conductor:	copper-clad aluminium, Ø 0.56 mm, 8 conductors, twisted into 4 pairs
Insulation:	HD-PE (High-Density Polyethylene)
Colour code:	blue-white, orange-white, green-white, brown-white
Pair shielding:	none
Overall shielding:	none
Outer sheath:	Eca in accordance with EN 50575 (PVC), grey (RAL 7035)
Outer sheath thickness:	0.52 mm
Tensile strength:	100 N max.
Bending radius:	Dynamic: 8x ADmm min./ Static: 4x ADmm min.
Operating temperature:	-20°C to +60°C
Outer diameter:	6.2 mm
Flame resistance:	IEC 60332-1

Applicable standards

ANSI/TIA 568-C
ISO/IEC 11801 3rd ed.
EN 50173
EN 50288-6-1

Electrical characteristics

Characteristic impedance:	100±5 ohms at 100MHz
Capacitance:	56 pF/m nominal @ 1 kHz
Capacitance asymmetry:	1.6 pF/m max. @ 1 kHz (pair-to-earth)
Insulation resistance:	5 GOhm × km min.
DC resistance:	130 ohms/km max. (2% max. unbalanced resistance)
Loop resistance:	262 ohms/km max. (2% max. unbalanced resistance)
Operating voltage:	72 Vdc max.
Phase delay:	570 nS/100m max.
Propagation delay:	45 nS/100m max.
NVP:	68%

