Installation cable Cat. 6 U/UTP Dca

Twisted pair, 250 MHz, class D, AWG 23/1

Article number : PN-IK-6-305-UD (Dca)



Description

The Cat. 6 U/UTP installation cable features a 4x2xAWG23/1 conductor construction and achieves a transmission frequency of 250 MHz. The cable jacket conforms to Euroclass Dca . This cable is suitable for structured building cabling in secondary and tertiary applications. Supplied in a 305m length in a cardboard box .

Physical & Mechanical Characteristics

Conductor:	copper, Ø 0.55mm, 8 conductors, twisted into 4 pairs
Insulation:	HD-PE (High Density Polyethylene)
Color code:	blue-white, orange-white, green-white, brown-white
Shielding for couples:	none
Total shielding:	none
Outer sheath:	Dca according to EN 50575 halogen-free (LSOH), Grey (RAL 7035)
Outer shell thickness:	0.52mm
Tensile load:	100N max.
Bending radius:	Dynamic 8x OD mm min./ static 4x OD mm min.
Operating temperature:	-20 °C to +75 °C
Outer diameter:	6.0 mm
Flame retardancy:	IEC 60332-1

Applicable standards

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

Electrical properties

Average impedance:	100±5 ohms at 100 MHz
Capacitance:	56 pF /m nominal @ 1 kHz
Capacitance unbalance :	1.6 pF /m max. @ 1 kHz (pair-to-earth)
Insulation resistance:	5 GOhm x km min.
DC resistance:	73 ohms/km max. (2% max. unbalanced resistance)
Loop resistance:	150 ohms/km max. (2% max. unbalanced resistance)
Operating voltage:	72 Vdc max.
Phase delay:	570 ns / 100 m max.
Propagation delay:	45 ns / 100 m max.
NVP:	68 %

