

Twisted Pair Installation Cable - Category 6 Class E - U/UTP - ASSNET250 Short Link



Abstract

CAT 6 Class E, U/UTP, Twisted Pair Installation Cable - Short Link, E_{CA} acc. to EN 50575, 250 MHz

Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)
1000Base-T Gigabit Ethernet
100Base-TX Fast Ethernet

Norms

ANSI/TIA 568-C; ISO/IEC 11801 2nd Ed.; EN 50173; EN 50288-6-1

Physical Properties

Conductor	Copper covered aluminum, solid AWG 23/1; diameter 0.55 mm nominal
Insulation	HD-PE (High Density Polyethylene)
Insulation diameter	1.02 mm nominal
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	None
Overall shielding	None
Outer sheath	E _{CA} acc. to EN 50575 (PVC)
Outer sheath diameter	0.55 mm nominal
Outer sheath color	Grey (RAL 7035)
DoP number	1000_010

Mechanical Properties

Tensile loading	150 N max.
Dynamic bending radius	8x AD mm min.
Static bending radius	4x AD mm min.
Shipping- and storage temperature range	-20 °C up to +75 °C
Operating temperature range	-20 °C up to +60 °C
Installations temperature range	0 °C up to +50 °C
Overall diameter	6.3 mm nominal

Electrical Properties

Impedance	100 ± 15 Ohm @ 1-100 MHz
Capacitance	40 pF/m nominal @ 800 Hz
Capacitance unbalance (pair-ground)	1.5 pF/m max. @ 1 KHz
Insulation resistance	2 GOhm x km min.
DC resistance	130 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	262 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	40 dB
Signal propagation delay	535 nS/100 m max.
Propagation delay	20 nS/100 m max.
NVP	69%

Transmission Properties

FREQ.	ATT	NEXT	PS NEXT	RL	ELFEXT	PS ELFEXT
MHz	dB	dB	dB	dB	dB	dB
1	2.1	65.0	62.0	19.0	63.3	60.3
10	6.3	56.6	53.6	19.0	43.3	40.3
100	21.3	39.9	36.9	12.0	23.3	20.3
200	31.5	34.8	31.8	9.0	17.2	14.2
250	35.9	33.1	30.1	8.0	15.3	12.3

Product Number Information

Item code	Length	Packaging	Version
ACU-4611-305	305 m	Carton	Simplex