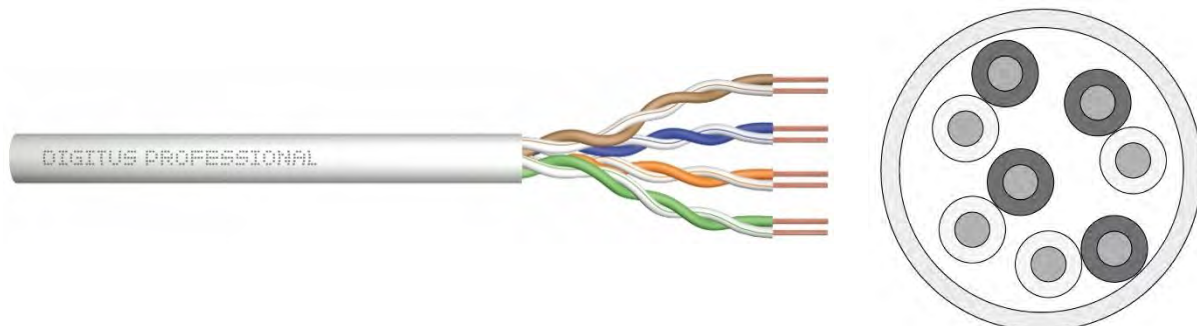


## Twisted Pair Installation Cable - Category 6 Class E - U/UTP - Short Link



### Abstract

CAT 6 Class E, U/UTP, Twisted Pair Installation Cable - Short Link, 250 MHz

### Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)  
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T  
 IEEE 802.5: 16 MB; ISDN; FDDI; ATM

### Standards

ANSI/TIA 568-C; ISO/IEC 11801 3<sup>rd</sup> Ed.; IEC 61156-5  
 EN 50173-1/4; EN 50288-6-1

### Physical Properties

Conductor	Copper covered aluminium, solid AWG 23/1
Insulation	HD-PE (High Density Polyethylene)
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 <sub>CA</sub> acc. to EN 50575; PVC
Outer sheath diameter (nominal)	0.55 mm nominal
Outer sheath color	Grey (RAL 7035)

### 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 Simplex (nominal)	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	CA-Type 3
Signal propagation delay	535 nS/100 m max.
Propagation delay	20 nS/100 m max.
Separating class	„b“ acc. to EN 50174-2
NVP	69%

### Product Number Information

Item code	Length/Packaging	Reaction to fire acc. to EN 50575	DoP number
ACU-4611-305	305 m Carton, Simplex	Eca	DoP_1000_040

### Transmission Properties

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