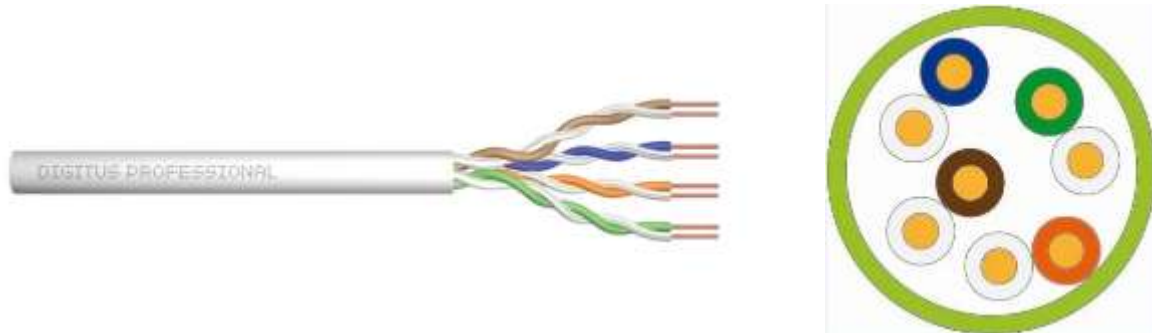




## Twisted Pair Installation Cable - Category 5e Class D - U/UTP



### Abstract

CAT 5 Class D, U/UTP, Twisted Pair Installation Cable, 100 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; PoE

### Standards

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

### Physical Properties

Conductor	Bare annealed copper, solid AWG 24/1
Insulation	PE (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	ECA 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)	4.7 mm nominal
Weight (kg/km)	30 kg

### Electrical Properties

Impedance	100 ± 5 Ohm @ 1-600 MHz
Capacitance	40 pF/m nominal @ 800 KHz
Capacitance unbalance (pair-ground)	1.5 pF/m max. @ 1 KHz
Insulation resistance	5 GOhm x km min.
DC resistance	72 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	147 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	Grade1 (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
DK-1511-V-1-1	100 m box, simplex	E <sub>CA</sub>	DoP_1000_001
DK-1511-V-305-1	305 m box, simplex		

### Transmission Properties

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	EL-FEXT	PS-ELFEXT	RL
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	2,03	62,3	59,3	60,3	57,3	60,75	60,75	17
10	6,46	47,3	44,3	40,8	37,8	40,75	40,75	20
100	21,97	32,29	29,29	10,3	7,3	20,75	20,75	15,1