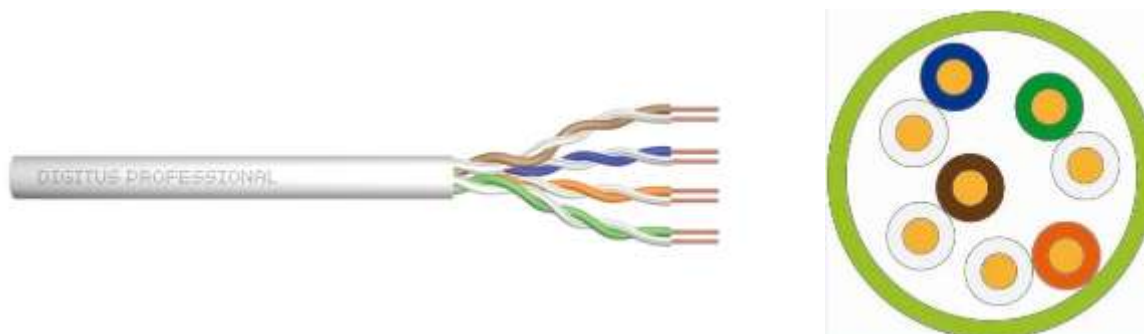




Twisted Pair Installation Cable - Category 5e Class D - U/UTP



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 3rd 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 _{CA}	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