

Twisted Pair Patch Cable, Raw - Category 5e Class D - U/UTP



Abstract

CAT 5e Class D, U/UTP, Twisted Pair Patch Cable, Raw, PVC, 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

Norms

ANSI/TIA 568-C; ISO/IEC 11801 2nd Ed.; EN 50173; EN 50288-3-1

Physical Properties

Conductor	Bare annealed copper, stranded AWG 26/7
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	PVC
Outer sheath diameter	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	-10 °C up to +75 °C
Operating temperature range	-10 °C up to +60 °C
Installations temperature range	0 °C up to +50 °C
Overall diameter	4.6 mm nominal

Electrical Properties

DC loop resistance	$\leq 280 \Omega \text{ km}$
Resistance unbalance	$\leq 2\%$
Insulation resistance	$\geq 2000 \text{ M}\Omega/\text{km @ 500V}$
Capacitance	nom. $48 \text{ nF/km @ 800 Hz}$
Capacitance unbalance (pair-ground)	$\leq 1500 \text{ nF/km}$
Characteristic Impedance	$100 \pm 15 \Omega \text{ @ 10-100 MHz}$
NVP	67%
Propagation delay	nom. $\leq 555 \text{ ns/100 m}$
Delay skew	nom. $\leq 50 \text{ ns/100 m}$
Test voltage (DC 1 min) core/core	1000V
Coupling attenuation	$\geq 4 \text{ dB}$

Transmission Properties

FREQ.	ATT	NEXT	PS NEXT	RL	ACR	PS ACR
MHz	dB	dB	dB	dB	dB	dB
1	2.2	60.0	57.0	17.0	57.4	54.4
10	7.1	47.0	44.0	17.0	37.4	34.4
100	24.0	30.1	27.1	10.0	23.3	14.4

Product Number Information

Item code	Length	Packaging
DK-1511-P-1-1	100 m	Carton
DK-1511-P-305-1	305 m	Carton