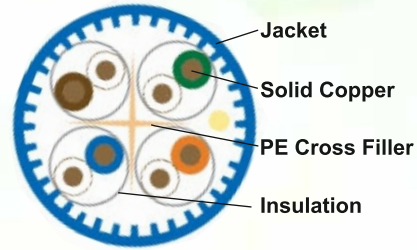


High Quality Cat6A UTP Cable

Description:

TechLine CAT6A UTP solid cables are the best twisted-pair cables in the market for transmitting data over local area Networks (LANs). These cables exceed performance requirements specified by the TIA/EIA-568-B.2-10



Application:

CAT 6A cable System complies with all of the performance requirements for current and proposed applications, the superior insulation around the 23 AWG copper wires attribute to the increased performance, these cables are used in the tertiary, but also in the secondary level of a network. They are characterized by large performance reserves and outstanding performance. They can be used to implement services such as 10 Ggabit Ethernet, Gigabit Ethernet with a frequency of 500 MHz and suitable for 10/100BASE-T, 1000BASE-TX. Enhanced performance cable for transmission of high speed data, token ring, 155 Mbps ATM, 100 Mbps TPPMD, ISDN, analog and digital video and analog and digital voice (VoIP). Operates at bandwidth of 500 MHz, The mechanical characteristics are perfectly suited for the application in tight cable channels and platforms due to their optimized construction.



Standard:

TIA/EIA - B.2-10 and ISO/IEC 11801, UL 444, Flame retardant to IEC60332-1, Smoke density acc. to IEC61034, Halogen-Free acc. To IEC607542.

Construction Characteristics:

conductor	Material	Solid Bare Copper
	Size	23AWG X 4P
	Construction	1/0.574 ± 0.010
Insulation	Material	HDPE
	Min. Thickness	0.20 mm
	AVG. Thickness	0.23mm
	Diameter	1.02 ± 0.05
	Colors	Blue- White/Blue Orange-White/Orange Green- White/Green Brown – White/Brown
Jacket	Material	PVC / LSZH
	Min. Thickness	0.60mm
	AVG. Thickness	0.65mm
	Diameter	7.0 ± 0.30
	Rip Cord	Nylon
Color	Per request	
Filler	Filler	PVC / MDPE

Electrical & Physical Characteristics:

Operating Temperature Range	-20 °C + 75° C
Conductor Resistance	Max 72.2ohm/km at 20° C
Dielectric Strength	Min AC 1.7KV
Spark Test	3.0KV (max)
DC Resistance Unbalance	Max 5 %
Pair-to-Ground Capacitance Unbalance	Max 3300pF/km
Characteristic Impedance	100 ± 15 Ohm
Nominal Velocity of Propagation (%)	67 ~69
Propagation Delay	Max 536ns/100m
Delay Skew	Max 45ns/100m

CHARACTERISTICS PER 100M @ 20 °C – 3 °C (68 °F – 5.5°F).

Frequency (MHz)	Insertion Loss (dB/100m)	Return Loss (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PS ELFEXT (dB)	ACR (dB)	PS ACR(dB)
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.7	23.0	65.3	63.3	55.8	52.8	61.6	59.6
8	5.2	24.5	60.8	58.8	49.7	46.7	55.6	53.6
10	5.9	25.0	59.3	57.3	47.8	44.8	53.4	51.4
16	7.4	25.0	56.2	54.2	43.7	40.7	48.8	46.8
20	8.3	25.0	54.8	52.8	41.8	38.8	46.5	44.5
25	9.3	24.3	53.3	51.3	39.8	36.8	44	42
31.25	10.4	23.6	51.9	49.9	37.9	34.9	41.5	39.5
62.5	14.9	21.5	47.4	45.4	31.9	28.9	32.5	30.5
100	19.0	20.1	44.3	42.3	27.8	24.8	25.3	23.3
200	27.5	18.0	39.8	37.8	21.8	18.8	12.3	10.3
250	31	17.3	38.3	36.3	19.8	16.8	7.3	5.3
300	34.2	16.8	37.1	35.1	18.3	15.3	2.9	-0.9
400	40.0	15.9	35.3	33.3	15.8	12.8	-4.7	-6.7
500	45.3	15.2	33.8	31.8	13.8	10.8	-11.5	-13.5

NETWORKING TWISTED PAIR CABLE