

Data Lan Cables

CAT 6A U/UTP LSOH CPR B2ca



APPLICATION

- ISDN
- 4/6 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM Power over Ethernet (PoE)
- 10 BASE-T Ethernet (IEEE 802.3j)
- 100 BASE-VG AnyLAN (IEEE 802.12)
- 1000 BASE-T 1 Gigabit Ethernet (IEEE 802.3 ab)
- 10 GBASE-T 10 Gigabit Ethernet (IEEE 802.3 an)
- In places where human life, valuable materials and equipments need to be protected

CABLE CONSTRUCTION

- 1) **Conductor** : Electrolytic solid copper conductor
- 2) **Insulation** : Solid polyethylene insulation
- 3) **Stranding** : Insulations are stranded into pairs
- 4) **Separator** : Pairs are stranded together with star shaped separator
- 5) **Outer Jacket** : UV resistant, halogen-free outer jacket

TECHNICAL CHARACTERISTICS

Conductor Resistance $\Omega/\text{km}(20^\circ\text{C})$	Insulation Resistance $\text{M}\Omega/\text{km}(20^\circ\text{C})$	Mutual Capacitance nF/km	Resistance Unbalance	Propagation Velocity	Characteristic Impedance Ω (1-250 MHz)	Operating Voltage V DC	Test Voltage V (DC. 1 minute)
Max. 94	5000	Max. 56	%2	%78-80	100 $\pm$ %5	125	1200

MECHANICAL CHARACTERISTICS

Bending Radius	Temperature Range Operating
8.0xD mm	-20°C ~ +60°C

STANDARDS

Manufacturing	Smoke Density Test	Flame Propagation Test	Corrosive Gas Test	Halogen-free Test
ANSI/TIA-568-C.2, IEC-61156-5, IEC-11801	IEC 61034-2, VDE 0482-1034-2, BS EN 61034-2	IEC 60332-3-24, VDE 0482-332-3-31, BS EN 60332-3-24	IEC 60754-2, VDE 0482-267-2-3, BS EN 50267-2-3	IEC 60754-1, VDE 0482-267-2-1, BS EN 50267-2-1

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ELECTRICAL PROPERTIES

Frequency MHz	Insertion Los dB/100m (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) dB/100m (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) dB/100m(Min.)	Return Loss (RL) dB (Min.)
1	2	74.3	72.3	67.8	64.8	20
4	3.8	65.3	63.3	55.8	52.8	23
8	5.3	60.8	58.8	49.7	46.7	24.5
10	6	59.3	57.3	47.8	44.8	25
16	7.6	56.2	54.2	43.7	40.7	25
20	8.5	54.8	52.8	41.8	38.8	24.3
25	9.5	53.3	51.3	39.8	36.8	23.6
31,25	10.7	51.9	49.9	37.9	34.9	21.5
62,5	15.4	47.4	45.4	31.9	28.9	20.1
100	19.8	44.3	42.3	27.8	24.8	18
200	29	39.8	37.8	21.8	18.8	17.3
250	32.8	38.3	36.3	19.8	16.8	16.8
300	34.3	37.1	35.1	18.3	15.3	16.8
400	40.1	35.3	33.3	15.8	12.8	15.9
500	45.3	33.8	31.8	13.8	10.8	15.2

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Part Number	Pair Count	Conductor Diameter (AWG)	Approx. Cable Diameter(mm)	Copper Weight(kg/km)	Approx. Weight(kg/km)	Packing Lengths(m)
UTP-CAT6A-B2CA	4	23	6.0	18.5	41.2	305/500/1000