

Data Lan Cables

U-UTP Cat 6 PE CPR Fca



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)

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 polyethylene 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	%67-69	100 $\pm$ %15	250	1200

MECHANICAL CHARACTERISTICS

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

STANDARDS

Manufacturing

ANSI/TIA-568-C.2,
IEC-61156-5,
IEC-11801

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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

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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-CAT6-PE-23	4	23	6	18.5	37.1	305/500/1000