

Data/LAN Cables

Cat 5e SU/UTP Aerial PE



Application

- 10 BASE-T (IEEE 802.3) Ethernet
- 100 BASE-T (IEEE 802.3u) Fast Ethernet
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 100 Mbps CDDI
- 250 Mbps ATM
- 1000 BASE-T (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 and all pairs are stranded together.
- 4 - Wrapping : Polyester tape
- 5 - Screen : Tinned copper braiding
- 6 - Messenger Wire : Galvanized steel wire
- 7 - Outer Jacket : UV resistant polyethylene outer jacket. RAL9005 (Black)

Technical Characteristics

Conductor Resistance Ω/km (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance %	Propagation Velocity %	Characteristic Impedance Ω (1-100 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

Electrical Properties

Frequency MHz	Insertion Loss $\text{dB}/100\text{m}$ (Max.)	Near-end Crosstalk (NEXT) dB (Min.)	Power-sum Near-end Crosstalk (PSNEXT) dB (Min.)	Equal-level Far-end Crosstalk (ELFEXT) $\text{dB}/100\text{m}$ (Min.)	Power-sum Equal Level Far-end Crosstalk (PSELFEXT) $\text{dB}/100\text{m}$ (Min.)	Return Loss (RL) dB (Min.)
1	2	65.3	62.3	63.8	63.8	23
4	4.1	56.3	53.3	51.8	51.8	23
8	5.8	51.8	48.8	45.7	45.7	23
10	6.5	50.3	47.3	43.8	43.8	23
16	8.2	47.2	44.2	39.7	39.7	23
20	9.3	45.8	42.8	37.8	37.8	23
25	10.4	44.3	41.3	35.8	35.8	22
31.25	11.7	42.9	39.9	33.9	33.9	21
62.5	17	38.4	35.4	27.9	27.9	18
100	22	35.3	32.3	23.8	23.8	16

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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)
3.434A8.2.1.1.0051.0.0004	4	24	6.3 x 10.6	26.8	51.6	500/1000