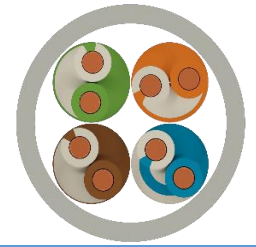


## Data/LAN Cables

### Cat 5e U/UTP LSOH



#### 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
- 52/155 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet) (IEEE 802.3 ab)
- 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 and all pairs are stranded together
- 4 - Outer Jacket : UV resistant, halogen-free outer jacket

#### Technical Characteristics

Conductor Resistance $\Omega/\text{km}$ (20 °C)	Insulation Resistance $\text{M}\Omega/\text{km}$ (20 °C)	Mutual Capacitance nF/km	Resistance Unbalance (per Pair) $\leq \%2$	Propagation Velocity %67-69	Characteristic Impedance $\Omega$ (1-100 MHz) 100 $\pm\%15$	Operating Voltage V DC 250	Test Voltage V (DC. 1 minute) 1200
Max. 94	5000	Max. 56	$\leq \%2$	%67-69	100 $\pm\%15$	250	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

#### Electrical Properties

Frequency MHz	Insertion Loss 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	-	65.3	62.3	64.0	61.0	-
4	4.08	56.3	53.3	52.0	49.0	23.0
8	5.78	51.8	48.8	45.9	42.9	24.5
10	6.48	50.3	47.3	44.0	41.0	25.0
16	8.26	47.2	44.2	39.9	36.9	25.0
20	9.28	45.8	42.8	38.0	35.0	25.0
25	10.43	44.3	41.3	36.0	33.0	24.3
31.25	11.73	42.9	39.9	34.1	31.1	23.6
62.5	17.00	38.4	35.4	28.1	25.1	21.5
100	21.98	35.3	32.3	24.0	21.0	20.1

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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)
3.415.2.1.3.0051.0.0004	4	24	5.1	15.3	32	305/500/1000