



### Application

- 10 BASE-T (IEEE 802.3)
- 100 VG-AnyLAN (IEEE 802.12)
- 4/16 Mbps Token Ring (IEEE 802.5)
- 52 Mbps ATM
- In indoor installations, switchboards and subscriber distributions, signal and data transmission..
- 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 : In layers up to 10 pairs, 20 pairs to 100 pairs consist of stranding of 10 pair groups wrapped with polypropylene identification tape
- 4 - Wrapping : Polyester tape
- 5 - Outer Jacket : UV resistant halogen-free outer jacket. RAL 7035 (Grey)

### Technical Characteristics

Conductor Resistance $\Omega/\text{km}$	Insulation Resistance $\text{M}\Omega \times \text{km}$ (500 V DC)	Mutual Capacitance $\text{nF}/\text{km}$	Capacitance Unbalance	Propagation Velocity	Operating Voltage V	Test Voltage V	Characteristic Impedance $\Omega$
94	5000	66	%5	%67-69	230	1200	100 $\pm$ %15. 1-16 MHz

### Mechanical Characteristics

Bending Radius	Temperature Range Operating
10xD mm	-20°C~+60°C

### Standards

Manufacturing Std.	Smoke Density Test	Corrosive Gas Test	Halogen-free Test	Flame Retardancy Test
ANSI/TIA-568-C.2. IEC-61156-5. IEC-11801	IEC 61034-2. VDE 0482-1034-2. EN 61034-2	IEC 60754-2. VDE 0482-267-2-3. EN 50267-2-3	IEC60754-1. VDE 0482-267-2-1. EN 50267-2-1	IEC 60332-1-2. VDE 0482-332-1-2. EN 60332-1-2

### Electrical Properties

Frequency MHz	Insertion Loss $\text{dB}/100\text{m}$ (Max.)	Near-end Crosstalk (NEXT) Loss $\text{dB}$ (Min.)	Return Loss (RL) $\text{dB}$ (Min.)	SRL $\text{dB}/100\text{m}$ (Min.)	Propagation Delay $\text{nS}/100\text{m}$ (Max.)
0.772	2.2	43	-	12	575
1	2.6	41	23	12	570
4	5.6	32	23	12	552
8	8.5	28	23	12	546.7
10	9.8	26	23	12	545.4
16	13.1	23	23	10	543

## Cat 3 U/UTP 24 AWG LSOH

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.413.2.1.3.0051.0.0002	2	0.51	3.9	7.8	18	100/500/1000
3.413.2.1.3.0051.0.0003	3	0.51	4.5	11.7	24	100/500/1000
3.413.2.1.3.0051.0.0004	4	0.51	5.3	15.6	31	100/500/1000
3.413.2.1.3.0051.0.0006	6	0.51	5.9	23.5	43	100/500/1000
3.413.2.1.3.0051.0.0008	8	0.51	6.8	31.3	57	100/500/1000
3.413.2.1.3.0051.0.0010	10	0.51	7.8	39.1	75	100/500/1000
3.413.2.1.3.0051.0.0012	12	0.51	10.9	46.9	101	100/500/1000
3.413.2.1.3.0051.0.0016	16	0.51	11.8	63.4	124	100/500/1000
3.413.2.1.3.0051.0.0020	20	0.51	12.7	78.2	151	100/500/1000
3.413.2.1.3.0051.0.0024	24	0.51	13.5	93.8	170	100/500/1000
3.413.2.1.3.0051.0.0025	25	0.51	13.7	97.7	175	100/500/1000
3.413.2.1.3.0051.0.0030	30	0.51	15.1	117.2	213	100/500/1000
3.413.2.1.3.0051.0.0032	32	0.51	15.3	125.1	226	100/500/1000
3.413.2.1.3.0051.0.0048	48	0.51	18.1	187.6	318	100/500/1000
3.413.2.1.3.0051.0.0050	50	0.51	15.1	195.4	309	100/500/1000
3.413.2.1.3.0051.0.0064	64	0.51	20.3	250.1	410	100/500/1000
3.413.2.1.3.0051.0.0075	75	0.51	22.1	298.5	480	100/500/1000
3.413.2.1.3.0051.0.0080	80	0.51	25.6	390.8	512	100/500/1000
3.413.2.1.3.0051.0.0100	100	0.51	25.6	390.8	626	100/500/1000