



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 PVC outer jacket. RAL 7035 (Grey)

Technical Characteristics

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

Mechanical Characteristics

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

Standards

Manufacturing Std.	Flame Retardancy Test
ANSI/TIA-568-C.2. IEC-61156-5. IEC-11801	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 dB (Min.)	Return Loss (RL) 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 PVC

Part Number	Pair Count	Conductor Diameter (mm)	Approx. Cable Diameter (mm)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Packing Lengths (m)
3.413.2.1.2.0051.0.0002	2	0.51	3.9	7.8	19	100/500/1000
3.413.2.1.2.0051.0.0003	3	0.51	4.5	11.7	26	100/500/1000
3.413.2.1.2.0051.0.0004	4	0.51	5.3	15.6	33	100/500/1000
3.413.2.1.2.0051.0.0006	6	0.51	5.9	23.5	46	100/500/1000
3.413.2.1.2.0051.0.0008	8	0.51	6.8	31.3	61	100/500/1000
3.413.2.1.2.0051.0.0010	10	0.51	7.8	39.1	80	100/500/1000
3.413.2.1.2.0051.0.0012	12	0.51	10.9	46.9	109	100/500/1000
3.413.2.1.2.0051.0.0016	16	0.51	11.8	63.4	133	100/500/1000
3.413.2.1.2.0051.0.0020	20	0.51	12.7	78.2	162	100/500/1000
3.413.2.1.2.0051.0.0024	24	0.51	13.5	93.8	180	100/500/1000
3.413.2.1.2.0051.0.0025	25	0.51	13.7	97.7	186	100/500/1000
3.413.2.1.2.0051.0.0030	30	0.51	15.1	117.2	227	100/500/1000
3.413.2.1.2.0051.0.0032	32	0.51	15.3	125.1	240	100/500/1000
3.413.2.1.2.0051.0.0048	48	0.51	18.1	187.6	335	100/500/1000
3.413.2.1.2.0051.0.0050	50	0.51	15.1	195.4	323	100/500/1000
3.413.2.1.2.0051.0.0064	64	0.51	20.3	250.1	430	100/500/1000
3.413.2.1.2.0051.0.0075	75	0.51	22.1	298.5	507	100/500/1000
3.413.2.1.2.0051.0.0100	100	0.51	25.6	390.8	654	100/500/1000