



Hold Key Electric Wire & Cable Co., Ltd.

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Category 5e U/UTP Cable

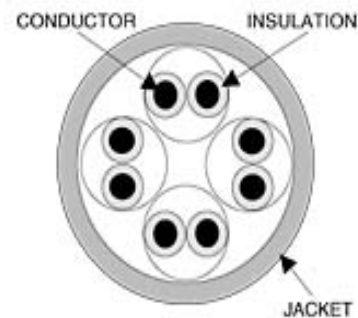
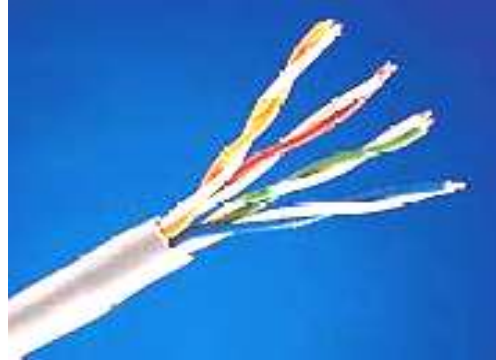
Standards :

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

Application :

- ANSI X3T9.5 TP-PMD (FDDI)
- ATM PMD 155Mbps
- IEEE 802.3 Fast Ethernet
- 10 Base-T, 100 Base-T4, 100 Base-X
- IEEE 802.5
- 4/16 Mbps Token Ring
- IEEE 802.12
- 100 Base-VG
- Gigabit Ethernet

Construction :



Construction

Type	No. of Pairs	Conductor	Insulation Thickness		Outer Diameter		Jacket	Insulation
			mm	Inch	mm	inch		
Horizontal Cable	4	24AWG (0.49 mm)	0.195	0.0077	5.0	0.198	PVC	HDPE
	4	24AWG (0.49 mm)	0.195	0.0077	5.0	0.198	LSOH	HDPE

Electrical Properties :

DC loop resistance $\leq 93,8 \Omega/\text{km}$
 Mutual Capacitance $\leq 5,6 \text{ nF}/100\text{m}$
 Insulation resistance (500V) $\geq 5000 \text{ M}\Omega \cdot \text{km}$
 Nominal velocity of propagation $\approx 70 \%$
 Delay skew $\leq 45 \text{ ns}/100\text{m}$
 Coupling loss: $> 40\text{dB}$ (30MHz to 100MHz)

Resistance unbalance $\leq 5\%$
 Capacitance unbalance $\leq 330 \text{ pF}/100\text{m}$
 Mean impedance: 1-100MHz $(100 \pm 15) \Omega$
 Propagation delay $\leq 534+36/\sqrt{f} \text{ ns}/100\text{m}$
 Test voltage: 2.5 kV d.c. for 2s

Thermal properties :

Transport/storage: -0°C to $+50^\circ\text{C}$
 Installation: -20°C to $+50^\circ\text{C}$
 Operating temp.: -20°C to $+60^\circ\text{C}$

Mechanical properties :

Bending radius under load: $\geq 8\text{x}$ cable diameter
 Bending radius without load: $\geq 4\text{x}$ cable diameter
 Max. tensile strength: 110 N



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Electrical Performance Specification

Frequency MHz	Attenuation Min.dB/100m	Return Loss Min.dB	NEXT Min.dB	P.S NEXT Min.dB	ELFEXT Min.dB/100m	P.S ELFEXT Min.dB/100m
1	2.0	20.0	65.3	62.3	63.8	60.8
4	4.1	23.0	56.3	53.3	51.8	48.8
8	5.8	24.5	51.8	48.8	45.7	42.7
10	6.5	25.0	50.3	47.3	43.8	40.8
16	8.2	25.0	47.2	44.2	39.7	36.7
20	9.3	25.0	45.8	42.8	37.8	34.8
25	10.4	24.3	44.3	41.3	35.8	32.8
31.25	11.7	23.6	42.9	39.9	33.9	30.9
62.5	17.0	21.5	38.4	35.4	27.9	24.9
100	22.0	20.1	35.3	32.3	23.8	20.8

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