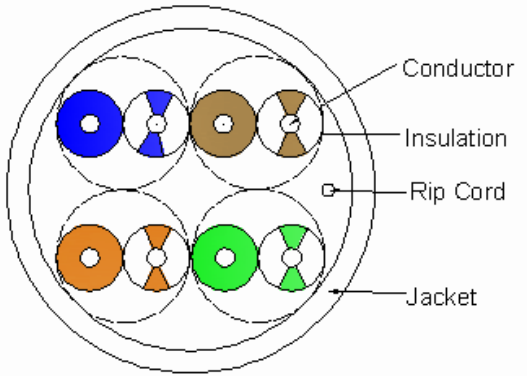


CAT 5E UTP LAN CABLE

Product Structure



Cable Structure

Conductor:	
Pairs	4
AWG	24
Dia. Of Conductors	$\Phi 0.5 \pm 0.01\text{mm}$
Material	ECCA
Elongation	$\geq 8\%$
Insulation:	
Material	HDPE
Thickness	0.2mm
Dia.	$\Phi 0.9 \pm 0.03\text{mm}$
Elongation	$\geq 300\%$
Color Cord	1. (White) (Blue) / (Blue) 2. (White) (Green) / (Green) 3. (White) (Brown) / (Brown) 4. (White) (orange) / (Orange)
Jacket:	
Material	PVC
Thickness	$0.58 \pm 0.1\text{mm}$
Color	Grey
Dia.	$\Phi 5.2 \pm 0.2\text{mm}$
Packing:	305M/box

(Electrical Characteristics) (20℃)

(Standard):	TIA/EIA-568-B. 2, IEC/ISO11801 EN50173-1, EN50288-5-1 IEC61156-5
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Frequency (MHZ)	IMZ (ohm)	RL (dB)	NEXT (dB)
0.772		19.4	67.0
1		20.0	65.3
4		23.0	56.3
8		24.5	51.8
10	$100 \pm 15 \Omega$	25.0	50.3
16		25.0	47.3
20		25.0	45.8
25		24.3	44.3
31.25		23.6	42.9
62.5		21.5	38.4
100		20.1	35.3

Frequency (MHZ)	PSNEXT (dB)	ELFEXT (dB/100m)	SELFEXT (dB/100m)	Transmit Speed
0.772	64.0	66.0	63.0	0.65C
1	62.3	63.8	60.8	
4	53.3	51.7	48.7	
8	48.8	45.7	42.7	
10	47.3	43.8	40.8	
16	44.3	39.7	36.7	
20	42.8	37.7	34.7	
25	41.3	35.8	32.8	
31.25	39.9	33.9	30.9	
62.5	35.4	27.8	24.8	
100	32.3	23.8	20.8	

Mechanical and Environmental Specifications

(Operating Temp range): -45℃~+65℃ (Maximum working voltage): 30V

(Tests):	Units	Spec
1. ConductorD.C. Resistance	Ω /100m	≤ 28.1
2. Imbalance of Pair D.C. Resistance	%	≤ 2.5
3. Insulation Resistance	M Ω KM	≥ 5000
4. Capacitance	nF/100m	≤ 5.6
5. Imbalanceof Capacitance	pF/100m	≤ 330
6. Dielectric Strength between Pairs	kv/min	≤ 1.0
7. Characteristic imp (1~100MHZ)	Ω	100 ± 15