



Lan Cable Cat5e U/UTP CPR Eca

Unshielded Cable

Application :

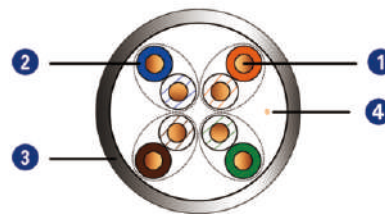
100Base-TX
100Base-T4
100VG-AnyLAN
1000 Base-T (Gigabit Ethernet)
ATM

Product Description:

Rate temperature: 60°C, 75°C
Bare solid copper conductor
RoHS/REACH Complied PVC,PE or LSZH Jacket
Complies to ANSI/TIA-568-B.2&ISO/IEC 11801

Installation Temperature :-30°C~+50°C

Minimum bending radius:>4P 4D



- ① Inner conductor
- ② Teflon
- ③ Jacket
- ④ Ripcord

Electrical Properties

Conductor Resistance at 20°C	NF EN 50289-1-2 / IEC 60189-1	≤ 9.5 Ω/100m
Resistance unbalance within a pair	NF EN 50289-1-2/IEC 60708	≤5%
Dielectric Strength <i>Test Voltage (cd/cd): 1.00KV DC or 0.7KV AC for 1min</i> <i>Test Voltage (cd/screen): 1.00KV DC or 0.7 KV AC for 1 min</i>	NF EN 50289-1-3/IEC 61196-1-105	No breakdown
Insulation Resistance at 20°C after 2min of electrification under a DC voltage between 100 & 500V	NF EN 50289-1-4 / IEC 60885-1	>1500 MΩ / 100m
Mutual capacitance	NF EN 50289-1-5/IEC 60189-1	5600pF / 100m MAX
Capacitance unbalance pair to ground at 800Hz or 1 kHz	NF EN 50289-1-5 / IEC 60189-1	≤160pF/100m
Characteristic impedance at 100MHz	NF EN 50289-1-11/ IEC 61156-1	100 ± 15 Ω
Spark Test	UL444	2000 ± 250VOC

Transmission Properties

CAT5e ANSI/TIA-568.2-D; IEC 61156-6; YD/T1019-2013									
No.	Frequency	Attenuation (Max)	Propagation Delay (MAX)	Propagation Delay Skew (MAX)	Return Loss (Min)	NEXT (Min)	PS NEXT (Min)	EL-FEXT (Min)	PS EL-FEXT (Min)
	MHz	dB/100m	ns/100m	ns/100m	dB(on 100m)	dB(on 100m)	dB(on 100m)	dB(on 100m)	dB(on 100m)
1	4	4.05	552	45	23.01	56.27	53.27	51.96	48.96
2	8	5.77	546.73	45	24.52	51.75	48.75	45.94	42.94
3	10	6.47	545.38	45	25	50.3	47.3	44	41
4	16	8.25	543	45	25	47.24	44.24	39.92	36.92
5	20	9.27	542.05	45	25	45.78	42.78	37.98	34.98
6	25	10.42	541.2	45	24.32	44.33	41.33	36.04	33.04
7	31.25	11.72	540.44	45	23.64	42.88	39.88	34.1	31.1
8	50	15.07	539.09	45	22.21	39.82	36.82	30.02	27.02
9	62.5	16.99	538.55	45	21.54	38.36	35.36	28.08	25.08
10	100	21.98	537.6	45	20.11	35.3	32.3	24	21
11	155 *	28.1	/	45	18.8	32.4	29.4	20.2	17.2
12	200 *	32.4	/	45	18	30.8	27.8	18	15
13	310 *	41.8	/	45	16.7	27.9	24.9	14.2	11.2
14	350 *	44.9	/	45	16.3	27.1	24.1	13.1	10.1

Remarks: * are the reference values

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