



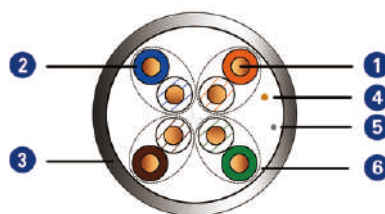
Lan Cable Cat6a U/FTP CPR Cca

Application:

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

Product Description:

Rated temperature: 60°C, 75°C, 90°C
Reference Standard: UL444 > UL1581
Bare solid copper conductor
RoHS/REACH Complied PVC PE or LSZH Jacket
Complies to ANSI/TIA-568-C.2, ISO/IEC 11801, EN50173 & IEC61156-5
Installation temperature: -30°C ~ +50°C
Minimum bending radius: 8D



- ① Inner conductor
- ② Insulation
- ③ Jacket
- ④ Drain Wire
- ⑤ Ripcord
- ⑥ Pair shield



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 Test Voltage (cd/cd): 1.00KV DC or 0.7 KV AC for 1 min Test Voltage (cd/screen): 1.00KV DC or 0.7 KV AC for 1 min	NF EN 50289-1-3 / IEC 61196-1-105	No breakdown
Insulation Resistance at 20°C after 2 min 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	5600 pF / 100m MAX
Capacitance unbalance pair to ground at 800 Hz or 1 kHz	NF EN 50289-1-5 / IEC 60189-1	≤ 160 pF / 100m
Characteristic impedance at 100 MHz	NF EN 50289-1-11 / IEC 61156-1	100 ± 5 Ω
Spark Test	UL444	2000 ± 250 VOC

Transmission Properties

CAT6A ANSI/TIA-568.2-D; IEC 61156-6; YD/T 1019-2013									
No.	Frequency	Attenuation (Max)	Propagation Delay (Max)	Propagation Delay Skew (Max)	Return Loss (Min)	NEXT (Min)	PSNEXT (Min)	EL-FEXT (Min)	PSEL-FEXT (Min)
	MHz	dB/100m	ns/100m	ns/100m	dB(on100m)	dB(on100m)	dB(on100m)	dB(on100m)	dB(on100m)
1	4	3.8	552	45	23.01	66.27	63.27	55.96	52.96
2	8	5.31	546.73	45	24.52	61.75	58.75	49.94	46.94
3	10	5.93	545.38	45	25	60.3	57.3	48	45
4	16	7.49	543	45	25	57.24	54.24	43.92	40.92
5	20	8.38	542.05	45	25	55.78	52.78	41.98	38.98
6	25	9.38	541.2	45	24.32	54.33	51.33	40.04	37.04
7	31.25	10.5	540.44	45	23.64	52.88	49.88	38.1	35.1
8	50	13.36	539.09	45	22.21	49.82	46.82	34.02	31.02
9	62.5	14.99	538.55	45	21.54	48.36	45.36	32.08	29.08
10	100	19.13	537.6	45	20.11	45.3	42.3	28	25
11	125	21.51	537.22	45	19.43	43.85	40.85	26.06	23.06
12	200	27.58	536.55	45	18	40.78	37.78	21.98	18.98
13	250	31.07	536.28	45	17.32	39.33	36.33	20.04	17.04
14	300	34.27	536.08	45	17.3	38.14	35.14	18.46	15.46
15	350	37.25	535.92	45	17.3	37.14	34.14	17.12	14.12
16	400	40.05	535.8	45	17.3	36.27	33.27	15.96	12.96
17	450	42.71	535.7	45	17.3	35.5	32.5	14.94	11.94
18	500	45.26	535.61	45	17.3	34.82	31.82	14.02	11.02

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