

U/UTP-CAT6

4x2x24AWG
U/UTP-CAT6 Lan Cable

PE Insulation/PE Jacket

Product Code	UTP6-300-OUTDOOR

Application

- 100Base-T4
- 100Base-TX
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 305m/Box

Product structure

Conductor	0.5±0.01mm（24AWG）	
Insulation	PE	
Insulation DiameterØ	0.86±0.05mm	
Insulation Colour	Blue/White-Blue	Orange/White-Orange
	Green/White-Green	Brown/White-Brown
Seperator	PE	
Wrap Tape	100%Coverage	
Rip cord	Yes	
Jacket	PE	
Jacket DiameterØ	5.6±0.3mm	
Thickness	0.5±0.1mm	
Jacket Colour	BK	

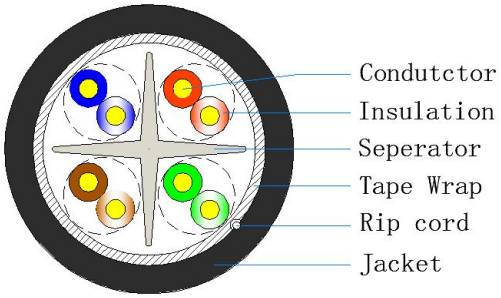
Electrical properties @ 20℃

Working capacity	≤5.6nF/100m(@1kHz)
Capacitive unbalance to earth	≤160pF/100m
Delay skew	≤45ns/100m
conductor resistance	≤95Ω/km
Electric balance of the conductor	≤5%(@20℃)
insulation resistance	≥5000MΩ.km
Impedance	100±22Ω

Mechanical properties

Operating temperature	－20~75℃
Minimum bending radius	8×Cable OD
Jacket Elongation at break	≥350%
Jacket Tensile strength	≥9Mpa
Jacket Aging conditions	100℃48h
Jacket Elongation at break After Aging	≥75% Before Aging
Jacket Tensile Strength After Aging	≥75% Before Aging
Low temperature winding experiment	-20℃4h No visible cracks

Date	Version	ECR	Drawn	Approved
2023/08/16	A0			



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High Frequency Electrical performance: (20℃ 100m)

Frequency (MHz)	ATT (≤dB)	NEXT (≥dB)	PSNEXT (≥dB)	ELFEXT (≥dB)	PS ELFEXT (≥dB)	RL (≥dB)	
1.00	3.0	65.0	62.0	63.3	60.3	19.0	
4.00	4.0	63.0	60.5	51.2	48.2	19.0	
8.00	5.7	58.2	55.6	45.2	42.2	19.0	
10.00	6.3	56.6	54.0	43.3	40.3	19.0	
16.00	8.0	53.2	50.6	39.2	36.2	18.0	Spread out 100m cable and test it
20.00	9.0	51.6	49.0	37.2	34.2	17.5	
25.00	10.1	50.0	47.3	35.3	32.3	17.0	
31.25	11.4	48.4	45.7	33.4	30.4	16.5	
62.50	16.5	43.4	40.6	27.3	24.3	14.0	
100.00	21.3	39.9	37.1	23.3	20.3	12.0	
200.00	31.5	34.8	31.9	17.2	14.2	9.0	
250.00	35.9	33.1	30.2	15.3	12.3	8.0	

*Table parameters are for reference only

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