

Conductor
Insulation
Seperator
Rip cord
Jacket

U/UTP-CAT6

4x2x24AWG U/UTP-CAT6 Lan Cable

PE Insulation/LSZH Jacket

Product Code CAT6.U/UTP.4P.24.Z.GY.25061811

Application

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

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 100m/Drum+Box

Product structure

Conductor	0.54 ± 0.01mm (24AWG)	
Insulation	PE	
Insulation DiameterØ	0.97 ± 0.05mm	
Insulation Colour	Blue/White-Blue	Orange/White-Orange
	Green/White-Green	Brown/White-Brown
Seperator	Yes	
Rip cord	Yes	
Jacket	LSZH	
Jacket DiameterØ	5.8 ± 0.3mm	
Thickness	0.5 ± 0.1mm	
Jacket Colour	GY	
Cable Printing	According Customer Requirement	

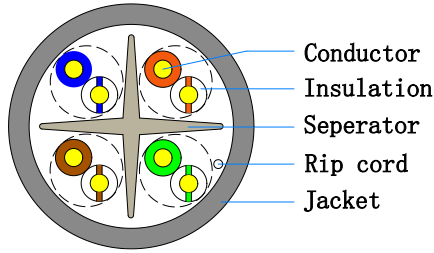
Electrical properties @ 20℃

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	<4%
insulation resistance	>5000MΩ.km
Impedance	100 ± 15Ω

Mechanical properties

Operating temperature	- 20~75℃
Minimum bending radius	8 × Cable OD
Jacket Elongation at break	>100%
Jacket Tensile strength	>9Mpa
Jacket Aging conditions	100℃ 168h
Jacket Elongation at break After Aging	>70% Before Aging
Jacket Tensile Strength After Aging	>70% Before Aging
Inner sheath Flame propagation sp	CPR Eca
Low temperature winding experiment	-20℃ 4h No visible cracks

Date	Version	ECR	Drawn	Approved
2025/08/28	A/0		QMY	LJH



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High Frequency Electrical performance:(20°C)

Frequency (MHz)	ATT (<dB)	NEXT (>dB)	PSNEXT (>dB)	ELFEXT (>dB)	PS ELFEXT (>dB)	RL (>dB)	Spread out 100m cable and test it
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	
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	

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2025/08/28	A/0		QMY	LJH