

U/UTP-CAT6

QS Code:6GO-010404

4x2x23AWG U/UTP-CAT6 Lan Cable

PE Insulation/PVC+PE Jacket

Product Code CAT6.U/UTP.4P.23.V+E.BK.23111623

Application

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

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 50m/Drum+Box

Product structure

Conductor	0.56 ± 0.01mm (23AWG)	
Insulation	PE	
Insulation DiameterØ	1.1 ± 0.05mm	
Insulation Colour	Blue/White-Blue	Orange/White-Orange
	Green/White-Green	Brown/White-Brown
Separator	Yes	
Filler	Gel filled	
Rip cord	Yes	
Inner sheath	PVC	
Inner sheath DiameterØ	6.6 ± 0.3mm	
Inner sheath Thickness	0.5 ± 0.1mm	
Inner sheath Colour	WH RAL9003	
Outer sheath	PE	
Outer sheath DiameterØ	7.6 ± 0.3mm	
Outer sheath Thickness	0.5 ± 0.1mm	
Outer sheath Colour	BK	
Cable Printing	According Customer Requirement	

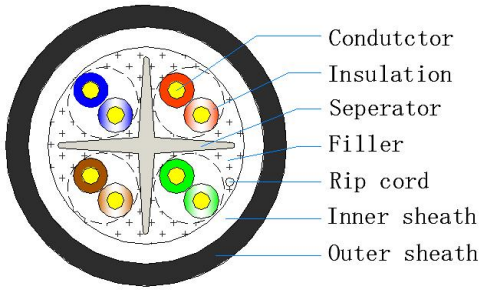
Electrical properties @ 20°C

Working capacity	< 5.6nF/100m(@1kHz)
Capacitive unbalance to earth	≤ 160pF/100m
Delay skew	< 45ns/100m
conductor resistance	< 93.8Ω/km
Electric balance of the conductor	< 5%(@20°C)
insulation resistance	> 5000M.Ω.km

Mechanical properties

Operating temperature	- 20~75°C
Minimum bending radius	8 × Cable OD
Inner sheath Elongation at break	> 100%
Inner sheath Tensile strength	> 13.8Mpa
Inner sheath Aging conditions	100°C 240h
Inner sheath Elongation at break After Aging	> 50% Before Aging
Inner sheath Tensile Strength After Aging	> 85% Before Aging
Inner sheath Flame propagation specification	CPR Eca
Outer sheath Elongation at break	> 350%
Outer sheath Tensile strength	> 9Mpa
Outer sheath Aging conditions	100°C 48h
Outer sheath Elongation at break After Aging	> 75% Before Aging
Outer sheath Tensile Strength After Aging	> 75% Before Aging
Low temperature winding experiment	-20°C 4h No visible cracks

Date	Version	ECR	Drawn	Approved
2023/11/16	A0			



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High Frequency Electrical performance: (20°C 100m)

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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