

U/UTP-CAT5e

4x2x24AWG

U/UTP-CAT5e Lan Cable

PE Insulation/PVC+PE Jacket

Product Code CAT5e.U/UTP.4P.24.V+E.BK.23070626

Application

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

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 100m/Box

Product structure

Conductor	0.5 ± 0.01mm (24AWG)
Insulation	PE
Insulation DiameterØ	1.02 ± 0.05mm
Insulation Colour	Blue/White-Blue Orange/White-Orange
	Green/White-Green Brown/White-Brown
Filler	Gel filled
Rip cord	Yes
Inner sheath	PVC
Inner sheath DiameterØ	5.4 ± 0.3mm
Inner sheath Thickness	0.5 ± 0.1mm
Inner sheath Colour	RAL9003 WH
Outer sheath	PE
Outer sheath DiameterØ	6.5 ± 0.3mm
Outer sheath Thickness	0.5 ± 0.1mm
Outer sheath Colour	BK

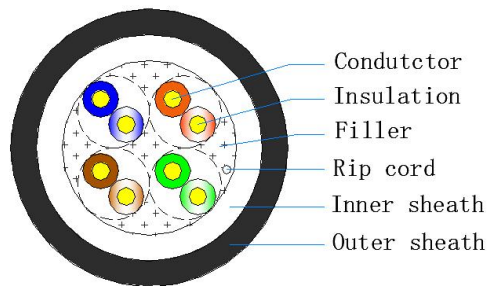
Electrical properties @ 20℃

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℃)
insulation resistance	>5000MΩ.km
Impedance: 1-100MHz	100 ± 15Ω

Mechanical properties

Operating temperature	— 20~75℃
Minimum bending radius	8 × Cable OD
Inner sheath Elongation at break	>100%
Inner sheath Tensile strength	>13.8Mpa
Inner sheath Aging conditions	100℃ 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℃ 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℃ 4h No visible cracks

Date	Version	ECR	Drawn	Approved
2023/7/7	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)	Spread out 100m cable and test it
1.00	3.0	60.0	57.0	57.4	54.4	17.0	
4.00	4.5	53.5	50.5	45.4	42.4	17.0	
8.00	6.3	48.6	45.6	39.3	36.3	17.0	
10.00	7.1	47.0	44.0	37.4	34.4	17.0	
16.00	9.1	43.6	40.6	33.3	30.3	17.0	
20.00	10.2	42.0	39.0	31.4	28.4	17.0	
25.00	11.4	40.3	37.3	29.4	26.4	16.0	
31.25	12.9	38.7	35.7	27.5	24.5	15.1	
62.50	18.6	33.6	30.6	21.5	18.5	12.1	
100.00	24.0	30.1	27.1	17.4	14.4	10.0	

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