

S/FTP-CAT6A

QS Code:6AO-010744

4x2x23AWG
S/FTP-CAT6A Lan Cable

PE Insulation/PE Jacket

Product Code CAT6A.S/FTP.4P.23.E.BK.23070627

Application

- 100Base-T4
- 100Base-TX
- 1000Base-T
- 1000Base-TX
- 155Mbps ATM
- 622Mbps ATM
- 10 Gb Ethernet

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 100m/Box

Product structure

Conductor	0.56 ± 0.02mm (23AWG)
Insulation	PE
Insulation DiameterØ	1.32 ± 0.1mm
Insulation Colour	Blue/White-Blue Orange/White-Orange
	Green/White-Green Brown/White-Brown
AL-Mylar	100% Coverage
Drain Wire	0.4 ± 0.01TC
Braid	ALM braid Density>40%
Rip cord	Yes
Jacket	PE
Jacket DiameterØ	7.6 ± 0.3mm
Thickness	0.55 ± 0.1mm
Jacket Colour	BK

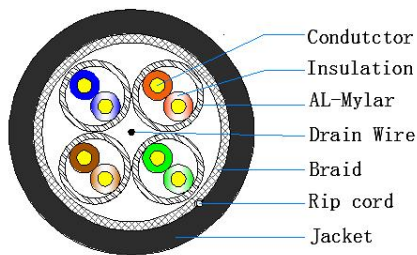
Electrical properties @ 20℃

Working capacity	<5.6nF/100m(@1kHz)
Capacitive unbalance to earth	≤160pF/100m
Delay skew	<45ns/100m
conductor resistance	<93.8 Ω/km
Electric balance of the conductor	<5%(@20℃)
insulation resistance	>5000M Ω.km
Impedance	100 ± 25 Ω

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
2023/7/7	A/0			



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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	65.0	62.0	63.3	60.3	19.0	
4.00	4.2	63.0	60.5	51.2	48.2	19.0	
8.00	5.8	58.2	55.6	45.2	42.2	19.0	
10.00	6.5	56.6	54.0	43.3	40.3	19.0	
16.00	8.2	53.2	50.6	39.2	36.2	18.0	
20.00	9.2	51.6	49.0	37.2	34.2	17.5	
25.00	10.2	50.0	47.3	35.3	32.3	17.0	
31.25	11.5	48.4	45.7	33.4	30.4	16.5	
62.50	16.4	43.4	40.6	27.3	24.3	14.0	
100.00	20.9	39.9	37.1	23.3	20.3	12.0	
200.00	30.1	34.8	31.9	17.2	14.2	9.0	
250.00	33.9	33.1	30.2	15.3	12.3	8.0	
350.00	40.6	30.3	27.3	12.4	9.4	6.6	
450.00	46.5	27.3	24.4	10.2	7.2	6.0	
500.00	49.3	26.1	23.2	9.3	6.3	6.0	

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