

S/FTP-CAT6A

QS Code:6AO-010743

4x2x23AWG
S/FTP-CAT6A Lan Cable

PE Insulation/PE Jacket

Product Code CAT6A.S/FTP.4P.23.E.BK.230331216

Application

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

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 50m/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	

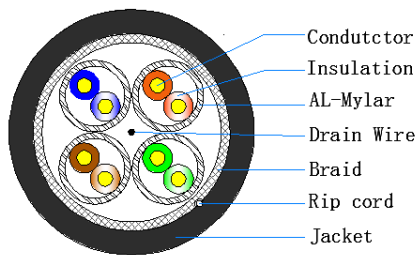
Electrical properties @ 20℃

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 ± 22 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
2023/06/05	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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