

S/FTP-CAT6A

QS Code:AGO-012608

4x2x23AWG S/FTP-CAT6A Lan Cable

PE Insulation/PVC+PE Jacket

Product Code CAT6A.S/FTP.4P.23.V+E.BK.23100724

Application

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

Reference Standard

- ANSI/TIA-568.2-D

Packing

- 305m/Box

Product structure

Conductor	0.56 ± 0.015mm (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	AL-Mg braid Density >40%
Filler	Gel filled
Rip cord	Yes
Inner sheath	PVC
Inner sheath DiameterØ	7.8 ± 0.3mm
Inner sheath Thickness	0.55 ± 0.1mm
Inner sheath Colour	WH RAL9003
Outer sheath	PE
Outer sheath DiameterØ	8.9 ± 0.3mm
Outer sheath Thickness	0.55 ± 0.1mm
Outer sheath Colour	BK
Cable Printing	According Customer Requirement

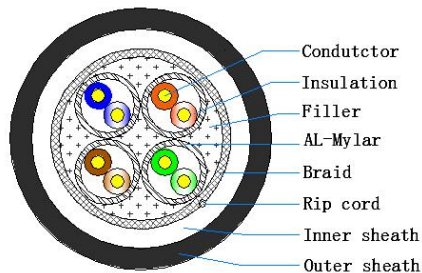
Electrical properties @ 20°C

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

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
2023/10/07	A/0			



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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	4.2	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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