

# Cat.6A 550 F/FTP LSZH Dca

AGINODE C6A 550 F/FTP LSZH DCA 4P 500M IVOIRY

**Aginode Ref:** 10269867

- Complies to latest Cat 6A standard version
- Supports Class EA applications
- Cable tested up to 550 MHz
- Flame retardant according to EN50575:2014+A1:2016 and IEC 60332-1
- Individual foiled pairs with global screen for EMC performance
- Compatible POE, POE+ and UPOE
- RoHS EC Directive compliant
- Compliant with European Reach regulation

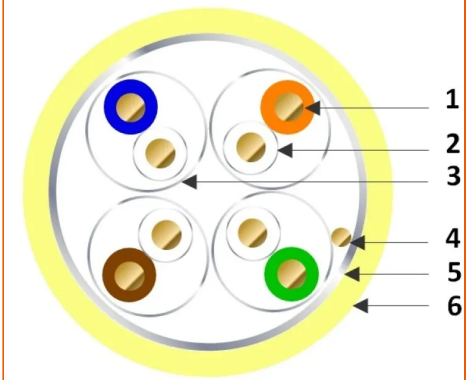
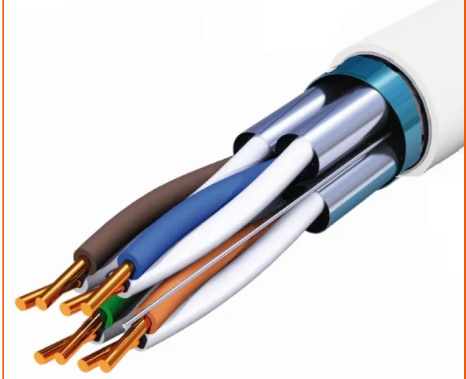
## Application

F/FTP Category 6A cables are the high end offering from Aginode. Manufactured in accordance with ISO IEC 61156-5 requirements, the F/FTP cable is the best choice to support all Class EA applications like Ethernet, Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, ... The Cat 6A F/FTP cables are suitable for voice, data, CATV and sharing application installations up to 500 MHz. Aginode Cat.6A cables, combined with a similar class of performance connectivity, are suitable for voice and data installations according to ISO/IEC 11801, EN 50173 and TIA/EIA 568 standards.

## Construction

1. Conductor: solid bare copper
2. Insulation : Polyethylen (EN 50290-2-23)- Two insulated conductors twisted to a pair
3. Screen: ALU/PET foil on each pair. Alu outside - 4/2 laid up together
4. Tinned copper drain wire
5. Screen: ALU/PET foil - Alu inside
6. Outer Jacket : LSZH (EN 50290-2-27)

## Environment



## STANDARDS

EN 50173  
EN 50288  
IEC 60332-1  
IEC 61156-5  
ISO/IEC 11801

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

Designed to reduce the environment impact, Aginode cables are compliant with RoHS 2011/65 Directive and European Reach 1907/2006/EC regulation. The outer sheat of the cabel is made of halogen free material (IEC 60754-1 / EN 50267-2-1), whith limited fumes emission (IEC 61034-1/2 / EN 50268-1/2) and no acid gaz emission in case of fire (IEC 60754-2 / EN 50267-2-2).

Aginode measure the environmental impact of each of the cable. Upon request the PEP Ecopassport or the Eco Material Declaration could be available.

## Cat 6A 550 F-FTP TRANSMISSION CHARACTERISTICS

CAT.6A 550 F/FTP TRANSMISSION CHARACTERISTICS

Values at 20°C

Frequency (MHz)	S/T	4	16	20	31.25	62.5	100	155	200	240	250	350	500	550
Attenuation max. (dB/100m)	Standard	3.8	7.5	8.4	10.5	15.0	19.1	24.1	27.6	31.1	34.3	37.2	45.3	-
	Typical	3.6	7.2	8.0	10.0	14.2	18.1	22.7	25.8	29.0	31.9	34.6	41.8	43.9
NEXT min. (dB)	Standard	75.0	75.0	75.0	72.9	68.4	65.3	62.4	60.8	59.6	59.3	57.1	54.8	-
	Typical	100.0	100.0	100.0	100.0	100.0	97.4	94.5	92.9	91.7	91.4	89.2	86.9	86.3
PSNEXT min. (dB)	Standard	75.0	74.2	72.8	69.9	65.4	62.3	59.4	57.8	56.6	56.3	54.1	51.8	-
	Typical	100.0	100.0	100.0	100.0	97.5	94.4	91.5	89.9	88.7	88.4	86.2	83.9	83.3
ACRF min. (dB)	Standard	66.0	53.9	52.0	48.1	42.1	38.0	34.2	32.0	30.4	30.0	27.1	24.0	-
	Typical	91.2	89.4	89.0	88.0	85.9	84.0	81.7	80.1	78.5	75.7	75.7	72.1	71.0
PSACRF min. (dB)	Standard	63.0	50.9	49.0	45.1	39.1	35.0	31.2	29.0	27.4	27.0	24.1	21.0	-
	Typical	88.2	86.4	86.0	85.0	82.9	81.0	78.7	77.1	75.8	75.5	72.7	69.1	68.0
Return Loss min. (dB)	Standard	23.0	25.0	25.0	23.6	21.5	20.1	18.8	18.0	17.4	17.3	17.3	17.3	-
	Typical	28.0	30.0	30.0	28.6	26.5	25.1	23.8	23.0	22.4	22.3	22.3	22.3	22.3

According to standard Cat.6A IEC61156-5, except for NEXT & PSNEXT: from 4 to 500Mhz, performances + 20dB and for ACRF & PSACRF, performances + 10dB

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## Characteristics

### 结构特性

外护套	低烟无卤
护套颜色	象牙白
无卤	是
Higher heating value	550 MJ/km
电缆类型	F/FTP
线对屏蔽	Aluminium / Polyester tape
总屏蔽	Aluminium/polyester tape

### 尺寸特性

近似重量	48 kg/km
线对数	4
导体横截面尺寸 (AWG)	23
绝缘外径	1.31 mm
标称外径	7.0 mm
外部尺寸	Not applicable

### 电气特性

互电容	42 nF/km
20°C时导体的最大直流电阻	75 Ohm/km
特性阻抗在100Mhz	100 Ohm

### 机械特性

最大安装拉力	80 N
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### 传输特性

传播速度	82 %
耦合衰减在30MHz	>70 dB

### 使用特性

应用类型	固定安装
类型	Cat. 6A
阻燃 - 火焰	IEC 60332-1

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烟密度	低
包装	Drum 500 m
环境安装温度, 范围	0...50 °C
敷设时弯曲系数	8 (xD)
安装时弯曲系数	4 (xD)
环境静态工作温度, 范围	-20...70 °C

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