Cat.6A 550 F/FTP LSZH Dca

AGINODE C6A 550 F/FTP LSZH DCA 2X4P 500M IVOIRY



Aginode Ref: 10269946

- 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

STANDARDS

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

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

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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, exept for NEXT & PSNEXT: from 4 to 500Mhz, performances + 20dB and for ACRF & PSACRF, performances + 10dB

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Characteristics

Construction characteristics	
Outer sheath	LSZH
Sheath colour	Ivory
Halogen free	Yes
Higher heating value	1130 MJ/km
Type of cable	F/FTP
Individual screen	Aluminium / Polyester tape
Overall screen	Aluminium/polyester tape
Dimensional characteristics	
Approximate weight	97 kg/km
Number of pairs	8
Conductor cross-section (AWG/KCMIL)	23
Diameter over insulation	1.31 mm
Nominal outer diameter (mm)	7.0 mm
External dimensions	7.0 x 14.2 mm
Electrical characteristics	
Mutual capacitance	42 nF/km
Max. DC resistance of the conductor at 20°C	75 Ohm/km
Characteristic impedance at 100 MHz	100 Ohm
Mechanical characteristics	
Maximum installation tension	160 N
Transmission characteristics	
Nominal Velocity of Propagation (NVP)	82 %
Coupling attenuation at 30 MHz	>70 dB
Usage characteristics	
Field of application	Fixed installations
Category	Cat. 6A
Flame retardant	IEC 60332-1

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Smoke density	Low
Packaging	Drum 500 m
Ambient installation temperature, range	0...50 °C
Bending factor when laying	8 (xD)
Bending factor when installed	4 (xD)
Ambient static operating temperature, range	-20...70 °C

Declaration of Performance

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