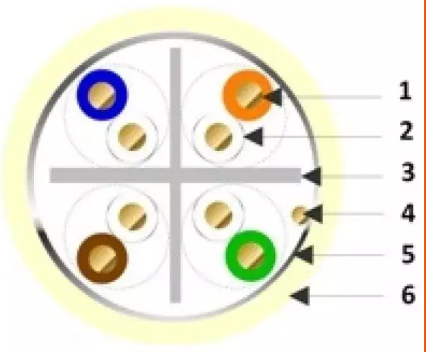
Cat.6A 500 F/UTP LSZH Dca

AGINODE C6A 500 F/UTP LSZH DCA 4P 500M IVOIRY





Aginode Ref: 10272117
EAN: 3427630104293

- Complies to latest Cat 6A standard version
- Supports Class EA applications
- Cable tested up to 500 MHz
- Flame retardant according to EN50575:2014+A1:2016 and IEC 60332-1
- Global screen for EMC performance
- Compatible POE, POE+ and UPOE
- RoHS EC Directive compliant
- Compliant with European Reach regulation

Application

F/UTP Category 6A cables are the standard offering from Aginode. Manufactured in accordance with ISO IEC 61156-5 requirements, the F/UTP cable is the best choice to support all Class EA applications like Ethernet, Fast Ethernet, Gigabit Ethernet, ··· Cat 6A F/UTP cables are suitable for basic voice and data 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. Cross filler - 4/2 laid up together
4. Tinned copper drain wire
5. Screen: ALU/PET foil - Alu inside
6. Outer Jacket : LSZH - Dca

Environment

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)

STANDARDS

EN 50173
EN 50288
EN 50575
IEC 60332-1
IEC 61156-5
ISO/IEC 11801

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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 500 F-UTP TRANSMISSION CHARACTERISTICS

CAT.6A 500 F/UTP TRANSMISSION CHARACTERISTICS
Values at 20°C

Frequency (MHz)	S/T	4	10	16	20	31.25	62.5	100	155	200	240	250	350	500
Attenuation max. (dB/100m)	Standard	3.8	5.9	7.5	8.4	10.5	15.0	19.1	24.1	27.6	30.4	31.1	37.2	45.3
	Typical	3.7	5.5	6.9	7.7	9.6	13.7	17.5	22.0	25.2	27.8	28.4	34.1	41.4
NEXT min. (dB)	Standard	66.3	60.3	57.2	55.8	52.9	48.4	45.3	42.4	40.8	39.6	39.3	37.1	34.8
	Typical	85.5	77.9	74.0	72.2	68.5	62.7	58.8	55.2	53.1	51.6	51.2	48.5	45.5
PSNEXT min. (dB)	Standard	63.3	57.3	54.2	52.8	49.9	45.4	42.3	39.4	37.8	36.6	36.3	34.1	31.8
	Typical	82.5	74.9	71.0	69.2	65.5	59.7	55.8	52.2	50.1	48.6	48.2	45.5	42.5
ACRF min. (dB)	Standard	56.0	48.0	43.9	42.0	38.1	32.1	28.0	24.2	22.0	20.4	20.0	17.1	14.0
	Typical	83.0	74.9	70.8	68.8	64.9	58.8	54.7	50.8	48.6	47.0	46.6	43.6	40.5
PSACRF min. (dB)	Standard	53.0	45.0	40.9	39.0	35.1	29.1	25.0	21.2	19.0	17.4	17.0	14.1	11.0
	Typical	80.0	71.9	67.8	65.8	61.9	55.8	51.7	47.8	45.6	44.0	43.6	40.6	37.5
Return Loss min. (dB)	Standard	23.0	25.0	25.0	25.0	23.6	21.5	20.1	18.8	18.0	17.4	17.3	17.3	17.3
	Typical	26.0	28.0	28.0	28.0	26.9	25.3	24.2	23.1	22.5	22.1	22.0	21.2	20.3

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Characteristics

Construction characteristics	
Outer sheath	LSZH
Sheath colour	Ivory
Halogen free	Yes
Higher heating value	861 MJ/km
Type of cable	F/UTP
Overall screen	Aluminium/polyester tape
Dimensional characteristics	
Approximate weight	50 kg/km
Number of pairs	4
Conductor cross-section (AWG/KCMIL)	23
Diameter over insulation	1.18 mm
Nominal outer diameter (mm)	7.5 mm
External dimensions	Not applicable
Electrical characteristics	
Mutual capacitance	50 nF/km
Max. DC resistance of the conductor at 20°C	95 Ohm/km
Characteristic impedance at 100 MHz	100 Ohm
Mechanical characteristics	
Maximum installation tension	80 N
Transmission characteristics	
Nominal Velocity of Propagation (NVP)	70 %
Coupling attenuation at 30 MHz	>50dB
Usage characteristics	
Field of application	Fixed installations
Category	Cat. 6A
Flame retardant	IEC 60332-1
Smoke density	Low

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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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