Cat.7 1000 S/FTP LSZH Dca

AGINODE C7 1000 S/FTP LSZH DCA 2X4P D500 OR



Aginode Ref: 10270325
EAN: 3427630103968

- Complies to latest Cat 7 standard version
- Supports Class F applications
- Cable tested up to 1000 MHz
- 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

S/FTP Category 7 cables are the high end offering from Aginode. Manufactured in accordance with ISO IEC 61156-5 requirements, the S/FTP cable is the best choice to support all Class F applications like Ethernet, Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, ⋯ The Cat 7 S/FTP cables are suitable for voice, data, CATV and sharing application installations up to 600 MHz. Aginode Cat.7 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 on each pair. Alu outside - 4/2 laid up together
4. Tinned copper braid
5. Outer Jacket : LSZH - Dca (S2, d1, a1)

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) and no acid gaz emission in case of fire (IEC 60754-2 / EN

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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 7 1000 S/FTP TRANMISSION CHARACTERISTICS

CAT7 1000 S/FTP TRANSMISSION CHARACTERISTICS

Values at 20°C

Frequency (MHz)	S/T	4	100	155	200	240	250	350	500	550	580	590	600	700	800	900	1000
Attenuation max. (dB/100m)	Standard	3.7	19.0	24.0	27.5	30.3	31.0	37.2	45.3	47.7	49.2	49.6	50.1	-	-	-	-
	Typical	3.6	18.1	22.7	25.8	28.4	29.0	34.6	41.8	43.9	45.2	45.6	46.0	50.0	53.7	57.2	60.5
NEXT min. (dB)	Standard	75.0	72.4	69.5	67.9	66.7	66.4	64.2	61.9	61.3	60.9	60.8	60.7	-	-	-	-
	Typical	100.0	97.4	94.5	92.9	91.7	91.4	89.2	86.9	86.3	85.9	85.8	85.7	84.4	83.2	82.2	81.3
PSNEXT min. (dB)	Standard	75.0	69.4	66.5	64.9	63.7	63.4	61.2	58.9	58.3	57.9	57.8	57.7	-	-	-	-
	Typical	100.0	94.4	91.5	89.9	88.7	88.4	86.2	83.9	83.3	82.9	82.8	82.7	81.4	80.2	79.2	78.3
ACRF min. (dB)	Standard	75.0	55.3	51.5	49.3	47.7	47.3	44.4	41.3	40.5	40.0	39.9	39.7	-	-	-	-
	Typical	100.0	94.0	91.7	90.1	88.5	85.7	85.7	82.1	81.0	80.4	80.2	80.0	78.0	76.2	74.4	72.7
PSACRF min. (dB)	Standard	75.0	52.3	48.5	46.3	44.7	44.3	41.4	38.3	37.5	37.0	36.9	36.7	-	-	-	-
	Typical	98.2	91.0	88.7	87.1	85.8	85.5	82.7	79.1	78.0	77.4	77.2	77.0	75.0	73.2	71.4	69.7
Return Loss min. (dB)	Standard	23.0	20.1	18.8	18.0	17.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3	-	-	-	-
	Typical	33.0	30.1	28.8	28.0	27.4	27.3	26.3	25.3	25.3	25.3	25.3	25.3	24.6	24.1	23.5	23.1

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Characteristics

구조적 특성	
피복	저연 할로겐 프리
Sheath colour	주황색
Halogen free	예
Higher heating value	1080 MJ/km
Type of cable	S/FTP
Individual screen	Aluminium / Polyester tape
Overall screen	Tinned copper braid
치수	
무게(근사치)	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
전기적 특성	
Mutual capacitance	42 nF/km
20° C에서 최대 도체 DC저항	75 Ohm/km
Characteristic impedance at 100 MHz	100 Ohm
기계적 특성	
Maximum installation tension	230 N
Transmission characteristics	
Nominal Velocity of Propagation (NVP)	82 %
Coupling attenuation at 30 MHz	>80 dB
사용 특성	
Field of application	Fixed installations
Category	Cat. 7
난연	IEC 60332-1

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연기밀도	Low
Packaging	Drum 500 m
Ambient installation temperature, range	0...50 °C
Bending factor when laying	8 (xD)
설치 시 벤딩 요소	4 (xD)
Ambient static operating temperature, range	-20...70 °C

성과 선언

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