

# 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

## 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 sheath of the cable is made of halogen free material (IEC 60754-1 / EN 50267-2-1), with limited fumes emission (IEC 61034-1/2 / EN 50268-1/2) and no acid gas emission in case of fire (IEC 60754-2 / EN



## STANDARDS

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

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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 TRANSMISSION CHARACTERISTICS

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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

### Construction characteristics

Outer sheath	LSZH
Sheath colour	Orange
Halogen free	Yes
Higher heating value	1080 MJ/km
Type of cable	S/FTP
Individual screen	Aluminium / Polyester tape
Overall screen	Tinned copper braid

### 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	230 N
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### Transmission characteristics

Nominal Velocity of Propagation (NVP)	82 %
Coupling attenuation at 30 MHz	>80 dB

### Usage characteristics

Field of application	Fixed installations
Category	Cat. 7
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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