# Cat.7 1300 S/FTP LSZH Dca

**AGINODE C7 1300 S/FTP LSZH DCA 2X4P D500 OR**



**Aginode Ref:** 13200497
**EAN:** 3427630108123

- Complies to latest Cat 7 standard version
- Supports Class F applications
- Cable tested up to 1300 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
EN 50575
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 1300 S FTP TRANSMISSION CHARACTERISTICS

| Frequency (MHz) | | 4 | 100 | 155 | 200 | 250 | 500 | 600 | 1000 | 1300 |
|---|---|---|---|---|---|---|---|---|---|---|
| Attenuation max. (dB/100m) | Standard | 3,7 | 19,0 | 24,0 | 27,5 | 31,0 | 45,3 | 50,1 | - | - |
| | Typical | 3,6 | 18,1 | 22,7 | 25,8 | 29,0 | 41,8 | 46,0 | 60,5 | 69,8 |
| NEXT min. (dB) | Standard | 75,0 | 72,4 | 69,5 | 67,9 | 66,4 | 61,9 | 60,7 | - | - |
| | Typical | 100,0 | 97,4 | 94,5 | 92,9 | 91,4 | 86,9 | 85,7 | 81,3 | 79,0 |
| PSNEXT min. (dB) | Standard | 75,0 | 69,4 | 66,5 | 64,9 | 63,4 | 58,9 | 57,7 | - | - |
| | Typical | 100,0 | 94,4 | 91,5 | 89,9 | 88,4 | 83,9 | 82,7 | 78,3 | 76,0 |
| ACRF min. (dB) | Standard | 75,0 | 55,3 | 51,5 | 49,3 | 47,3 | 41,3 | 39,7 | - | - |
| | Typical | 100,0 | 94,0 | 91,7 | 90,1 | 85,7 | 82,1 | 80,0 | 72,7 | 68,1 |
| PSACRF min. (dB) | Standard | 75,0 | 52,3 | 48,5 | 46,3 | 44,3 | 38,3 | 36,7 | - | - |
| | Typical | 98,2 | 91,0 | 88,7 | 87,1 | 85,5 | 79,1 | 77,0 | 69,7 | 65,1 |
| Return Loss min. (dB) | Standard | 23,0 | 20,1 | 18,8 | 18,0 | 17,3 | 17,3 | 17,3 | - | - |
| | Typical | 33,0 | 30,1 | 28,8 | 28,0 | 27,3 | 25,3 | 25,3 | 23,1 | 21,9 |
| | | | | | | | | | | |
| ACR min. (dB/100) | Standard | 71,3 | 53,4 | 45,6 | 40,4 | 35,5 | 16,7 | 10,6 | - | - |
| | Typical | 96,4 | 79,3 | 71,9 | 67,0 | 62,4 | 45,1 | 39,7 | 20,8 | 9,2 |

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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 | 4 |
| 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 |
| **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 |

## パフォーマンス宣言

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