

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

Application

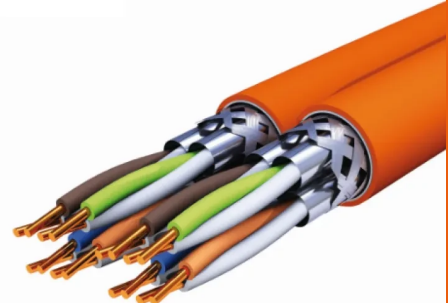
S/FTP Category 7 cables are the high end offering from Aginode. Manufactured in accordance with ISO IEC 61156-5 requirements, the S/FTP cable is the best choice to support all Class F applications like Ethernet, Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, ... The Cat 7 S/FTP cables are suitable 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
EN 50575
IEC 60332-1
IEC 61156-5
ISO/IEC 11801

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Aginode is indicative only and shall not be binding on Aginode or be treated as constituting a representation on the part of Aginode.

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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