

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

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 | 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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