

Cat.6A 550 F/FTP LSZH Dca

AGINODE C6A 550 F/FTP LSZH DCA 4P 100M IVOIRY

Aginode Ref: 10270261

- Complies to latest Cat 6A standard version
- Supports Class EA applications
- Cable tested up to 550 MHz
- Flame retardant according to EN50575:2014+A1:2016 and IEC 60332-1
- Individual foiled pairs with global screen for EMC performance
- Compatible POE, POE+ and UPOE
- RoHS EC Directive compliant
- Compliant with European Reach regulation

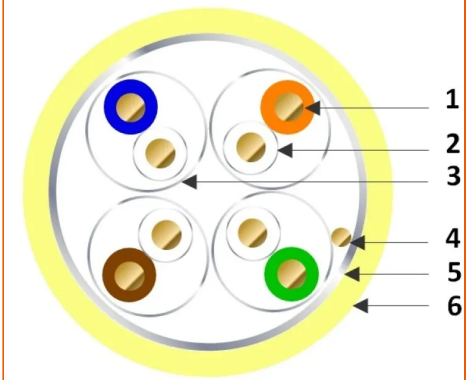
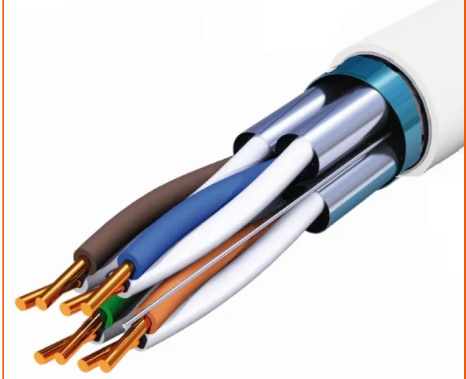
Application

F/FTP Category 6A cables are the high end offering from Aginode. Manufactured in accordance with ISO IEC 61156-5 requirements, the F/FTP cable is the best choice to support all Class EA applications like Ethernet, Fast Ethernet, Gigabit Ethernet, 10 Gigabit Ethernet, ... The Cat 6A F/FTP cables are suitable for voice, data, CATV and sharing application installations up to 500 MHz. Aginode Cat.6A 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 foil on each pair. Alu outside - 4/2 laid up together
4. Tinned copper drain wire
5. Screen: ALU/PET foil - Alu inside
6. Outer Jacket : LSZH (EN 50290-2-27)

Environment



STANDARDS

EN 50173
EN 50288
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.

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 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 6A 550 F-FTP TRANSMISSION CHARACTERISTICS

CAT.6A 550 F/FTP TRANSMISSION CHARACTERISTICS

Values at 20°C

| Frequency (MHz) | S/T | 4 | 16 | 20 | 31.25 | 62.5 | 100 | 155 | 200 | 240 | 250 | 350 | 500 | 550 |
|----------------------------|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| Attenuation max. (dB/100m) | Standard | 3.8 | 7.5 | 8.4 | 10.5 | 15.0 | 19.1 | 24.1 | 27.6 | 31.1 | 34.3 | 37.2 | 45.3 | - |
| | Typical | 3.6 | 7.2 | 8.0 | 10.0 | 14.2 | 18.1 | 22.7 | 25.8 | 29.0 | 31.9 | 34.6 | 41.8 | 43.9 |
| NEXT min. (dB) | Standard | 75.0 | 75.0 | 75.0 | 72.9 | 68.4 | 65.3 | 62.4 | 60.8 | 59.6 | 59.3 | 57.1 | 54.8 | - |
| | Typical | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 97.4 | 94.5 | 92.9 | 91.7 | 91.4 | 89.2 | 86.9 | 86.3 |
| PSNEXT min. (dB) | Standard | 75.0 | 74.2 | 72.8 | 69.9 | 65.4 | 62.3 | 59.4 | 57.8 | 56.6 | 56.3 | 54.1 | 51.8 | - |
| | Typical | 100.0 | 100.0 | 100.0 | 100.0 | 97.5 | 94.4 | 91.5 | 89.9 | 88.7 | 88.4 | 86.2 | 83.9 | 83.3 |
| ACRF min. (dB) | Standard | 66.0 | 53.9 | 52.0 | 48.1 | 42.1 | 38.0 | 34.2 | 32.0 | 30.4 | 30.0 | 27.1 | 24.0 | - |
| | Typical | 91.2 | 89.4 | 89.0 | 88.0 | 85.9 | 84.0 | 81.7 | 80.1 | 78.5 | 75.7 | 75.7 | 72.1 | 71.0 |
| PSACRF min. (dB) | Standard | 63.0 | 50.9 | 49.0 | 45.1 | 39.1 | 35.0 | 31.2 | 29.0 | 27.4 | 27.0 | 24.1 | 21.0 | - |
| | Typical | 88.2 | 86.4 | 86.0 | 85.0 | 82.9 | 81.0 | 78.7 | 77.1 | 75.8 | 75.5 | 72.7 | 69.1 | 68.0 |
| Return Loss min. (dB) | Standard | 23.0 | 25.0 | 25.0 | 23.6 | 21.5 | 20.1 | 18.8 | 18.0 | 17.4 | 17.3 | 17.3 | 17.3 | - |
| | Typical | 28.0 | 30.0 | 30.0 | 28.6 | 26.5 | 25.1 | 23.8 | 23.0 | 22.4 | 22.3 | 22.3 | 22.3 | 22.3 |

According to standard Cat.6A IEC61156-5, except for NEXT & PSNEXT: from 4 to 500Mhz, performances + 20dB and for ACRF & PSACRF, performances + 10dB

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Eigenschaften

Konstruktionsmerkmale

| | |
|----------------------|----------------------------|
| Außenmantel | LSZH |
| Mantelfarbe | Ivory |
| Halogenfrei | Ja |
| Higher heating value | 550 MJ/km |
| Kabeltype | F/FTP |
| Einzeln geschirmt | Aluminium / Polyester tape |
| Gemeinsamer Schirm | Aluminium/polyester tape |

Abmessungsmerkmale

| | |
|-----------------------------|----------------|
| Nettogewicht ca. | 48 kg/km |
| Anzahl Paare | 4 |
| Abmessung (AWG) | 23 |
| Durchmesser über Isolierung | 1.31 mm |
| Außendurchmesser, nom. | 7.0 mm |
| Außenabmessungen | Not applicable |

Elektrische Eigenschaften

| | |
|--|-----------|
| Betriebskapazität | 42 nF/km |
| Max. Gleichstromwiderstand des Leiters bei 20° C | 75 Ohm/km |
| Characteristic impedance at 100 MHz | 100 Ohm |

Mechanische Eigenschaften

| | |
|---------------------------------------|------|
| Maximale Zugspannung bei Installation | 80 N |
|---------------------------------------|------|

Übertragungseigenschaften

| | |
|-----------------------------|--------|
| Ausbreitungsgeschwindigkeit | 82 % |
| Kopplungsämpfung bei 30 MHz | >70 dB |

Anwendungsmerkmale

| | |
|----------------|---------------------|
| Einsatzbereich | Fixed installations |
| Kategorie | Cat. 6A |
| Flammwidrig | IEC 60332-1 |

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| | |
|--|-------------|
| Rauchdichte | Ja |
| Verpackung | 100 m Ring |
| Umgebungstemperatur bei Verlegung, Bereich | 0...50 °C |
| Biegefaktor bei Verlegung | 8 (xD) |
| Biegefaktor nach Verlegung | 4 (xD) |
| Temperaturbereich bei fester Verlegung | -20...70 °C |

Erklärung zur Leistung

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