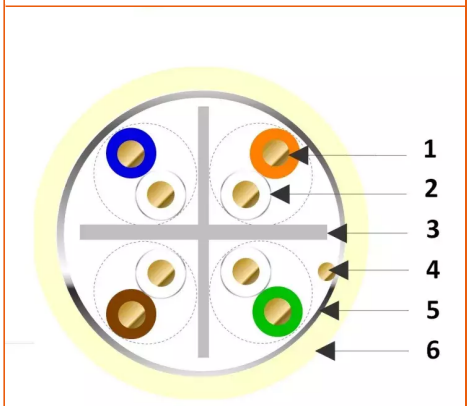
# Cat.6 450 F/UTP LSZH Dca

**AGINODE C6 450 F/UTP LSZH DCA 4P 500M IVOIRY**



**Aginode Ref:** 10269942
**EAN:** 3427630103593

- Complies to latest Cat 6 standard version
- Supports Class E applications
- Cable tested up to 450 MHz
- Flame retardant according to EN50575:2014+A1:2016 and IEC 60332-1
- Global screen for EMC performance
- Compatible POE, POE+ and UPOE
- RoHS EC Directive compliant
- Compliant with European Reach regulation
- N'Roll and MOBIWAY™ compatible




## Application

F/UTP Category 6 cables are the standard offering from Aginode. Manufactured in accordance with ISO IEC 61156-5 requirements, the F/UTP cable is the best choice to support all Class E applications like Ethernet, Fast Ethernet, Gigabit Ethernet, ··· Cat 6 F/UTP cables are suitable for basic voice and data installations up to 250 MHz. Aginode Cat.6 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. Cross filler - 4/2 laid up together
4. Tinned copper drain wire
5. Screen: ALU/PET foil - Alu inside
6. Outer Jacket : LSZH - Dca

## 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),

## STANDARDS

EN 50173
EN 50288
EN 50575
IEC 60332-1
IEC 61156-5
ISO/IEC 11801

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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 6 450 F-UTP TRANSMISSION CHARACTERISTICS

**CAT.6 450 F/UTP TRANSMISSION CHARACTERISTICS**
Values at 20°C

| Frequency (MHz) | S/T | 4 | 10 | 16 | 20 | 100 | 200 | 250 | 350 | 450 |
|---|---|---|---|---|---|---|---|---|---|---|
| Attenuation max. (dB/100m) | Standard | 3.8 | 6.0 | 7.6 | 8.5 | 19.9 | 29.1 | 33.0 | - | - |
| | Typical | 3.6 | 5.5 | 6.9 | 7.7 | 17.6 | 25.4 | 28.6 | 34.4 | 39.5 |
| NEXT min. (dB) | Standard | 66.3 | 60.3 | 57.2 | 55.8 | 45.3 | 40.8 | 39.3 | - | - |
| | Typical | 80.5 | 72.7 | 68.8 | 66.9 | 53.3 | 47.4 | 45.5 | 42.7 | 40.5 |
| PSNEXT min. (dB) | Standard | 63.3 | 57.3 | 54.2 | 52.8 | 42.3 | 37.8 | 36.3 | - | - |
| | Typical | 77.5 | 69.7 | 65.8 | 63.9 | 50.3 | 44.4 | 42.5 | 39.7 | 37.5 |
| ACRF min. (dB) | Standard | 56.0 | 48.0 | 43.9 | 42.0 | 28.0 | 22.0 | 20.0 | - | - |
| | Typical | 85.5 | 76.3 | 71.5 | 69.3 | 53.1 | 46.1 | 43.9 | 40.5 | 38.0 |
| PSACRF min. (dB) | Standard | 53.0 | 45.0 | 40.9 | 39.0 | 25.0 | 19.0 | 17.0 | - | - |
| | Typical | 82.5 | 73.3 | 68.5 | 66.3 | 50.1 | 43.1 | 40.9 | 37.5 | 35.0 |
| Return Loss min. (dB) | Standard | 23.0 | 25.0 | 25.0 | 25.0 | 20.1 | 18.0 | 17.3 | - | - |
| | Typical | 27.0 | 29.0 | 29.0 | 29.0 | 24.5 | 22.5 | 21.9 | 20.9 | 20.2 |

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## Characteristics

| | |
|---|---|
| **结构特性** | |
| 外护套 | 低烟无卤 |
| 护套颜色 | 象牙白 |
| 无卤 | 是 |
| Higher heating value | 821 MJ/km |
| 电缆类型 | F/UTP |
| 总屏蔽 | Aluminium/polyester tape |
| **尺寸特性** | |
| 近似重量 | 49 kg/km |
| 线对数 | 4 |
| 导体横截面尺寸（AWG） | 24 |
| 绝缘外径 | 1.13 mm |
| 标称外径 | 7.1 mm |
| 外部尺寸 | Not applicable |
| **电气特性** | |
| 互电容 | 50 nF/km |
| 20°C时导体的最大直流电阻 | 95 Ohm/km |
| 特性阻抗在100Mhz | 100 Ohm |
| **机械特性** | |
| 最大安装拉力 | 80 N |
| **传输特性** | |
| 传播速度 | 70 % |
| 耦合衰减在30MHz | >50dB |
| **使用特性** | |
| 应用类型 | 固定安装 |
| 类型 | Cat. 6 |
| 阻燃 - 火焰 | IEC 60332-1 |
| 烟密度 | 低 |

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| | |
|---|---|
| 包装 | Drum 500 m |
| 环境安装温度，范围 | 0...50 °C |
| 敷设时弯曲系数 | 8 (xD) |
| 安装时弯曲系数 | 4 (xD) |
| 环境静态工作温度，范围 | -20...70 °C |

## 业绩声明

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