

# DIGITUS® CAT 6A U/FTP installation cable, 305 m, simplex, Eca

DK-1623-A-VH-305  
EAN 4016032344124



## CAT 6A U-FTP installation cable, 500 MHz Eca (EN 50575), AWG 23/1, 305 m drum, sx, blue

The Digitus® Cat.6A U/FTP installation cable is characterized by the following cable construction 4x2x AWG23/1 and reaches a transmission frequency up to 500 MHz. The halogen free cable jacket is conform to the standard IEC 60332-1, FRNC-B, LSZH-1 and CPR Euro class Eca. The cable is suitable for building structured cabling in the secondary and tertiary area. Compliant with the following standards ISO/IEC 11801, DIN EN 50173, DIN EN 50288-10-1.

### Future-oriented standards and high-end quality for your network.

- Physical properties:
- Conductor: Bare copper wire, AWG 23/1
- System(s) for the assessment and verification of constancy of performance: System 3
- Total number of insulated conductors: 8, twisted into 4 pairs
- Color code: Blue-white, orange-white, green-white, brown-white
- Shielding of the individual pairs: Aluminum-laminated polyester film, covers 100%
- Outer sheath: Eca to B2ca in accordance with EN 50575; LSZH
- Outer sheath thickness (nominal): 0.5 mm (Eca); 0.6 mm (Dca); 0.8 mm (Cca); 0.8 mm (B2ca)
- Outer casing color: Light blue (RAL 5012)
- Mechanical properties:
- Strain relief: 150N max.
- Dynamic bending radius: 8x AD mm min.
- Static bending radius: 4x AD mm min.
- Transport and storage temperature range: -20 °C to +60 °C

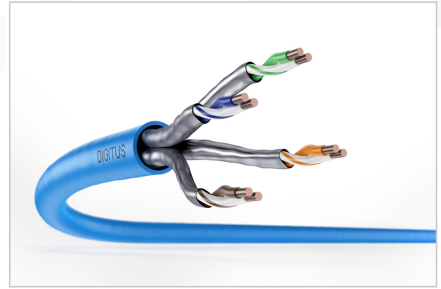
- Operating temperature range: -20 °C to +75 °C
- Installation temperature range: 0 °C to +50 °C
- Outer diameter: 7.0 mm (Eca); 7.2 mm (Dca); 7.6 mm (Cca); 7.6 mm (B2ca)
- Weight (kg/km): 56 kg (Eca); 57 kg (Dca); 58 (Cca); 58 kg (B2ca)
- Electrical properties:
- Impedance: 100±15 Ohm @ 4 - 100MHz; 100±25 Ohm @ 100-500 MHz;
- Capacitance: 45 pF/m nominal @ 1KHz
- Capacitance unbalance (pair-earth): 1.6 pF/m max. @ 1 KHz
- Insulation resistance: 5 GOhm x km min.
- Loop resistance: 190 Ohm/km max. (2% max. unbalanced resistance)
- Operating voltage: 72 Vdc max.
- Coupling attenuation: CA-Type 2
- Phase delay: 450 nS/100 m max.
- Time delay: 25 nS/100 m max.
- Separation class: "c" according to EN 50174-2
- NVP: 70%

### Attributes

- Assortment: Twisted Pair Installation Cables
- Category: CAT 6A
- Shielding: U-FTP, pairs in metal foil
- CPR: Eca
- Length: 305 m
- Color: light-blue
- Jacket: LSOH
- Structure: 4 x 2 AWG 23/1, solid twisted pair

| Logistics                    |              |             |            |            |             |                 |
|------------------------------|--------------|-------------|------------|------------|-------------|-----------------|
|                              | Number (pcs) | Weight (kg) | Depth (cm) | Width (cm) | Height (cm) | cm <sup>3</sup> |
| Packaging Unit Carton        | 1            | 17.15       | 37.00      | 37.00      | 29.00       | 39,701.00       |
| Packaging Unit Inside        | 1            | 17.15       | 37.00      | 37.00      | 22.00       | 30,118.00       |
| Packaging Unit Single        | 1            | 17.15       | 37.00      | 37.00      | 29.00       | 39,701.00       |
| Net single without Packaging | 1            | 16.97       | 37.00      | 37.00      | 29.00       | 39,701.00       |

More images:



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AWG 23/1  
500 MHz  
10 Gbit Ethernet  
CAT 6a  
20°/75°  
LSZH  
Eca  
CPL class

**CAT 6a U/FTP Installation Cable, 305 m, Simplex, E<sub>ca</sub>**

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Anwendungsbeispiel  
Example of use

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Kabelquerschnitt  
Cable cross section

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| Produktdaten / Product Information  | Physikalische Spezifikationen / Physical Properties                                  |
|---|--|
| <b>Produktname:</b> CAT 6a U/FTP Installation Cable, 305 m, Simplex, E <sub>ca</sub>                | <b>Typ:</b> CAT 6a U/FTP Installation Cable, 305 m, Simplex, E <sub>ca</sub>         |
| <b>Produktcode:</b> DK-1623-A-VH-305  | <b>Material:</b> Polyethylene (PE) jacket, Copper-plated steel braid, PVC insulation |
| <b>Produktbeschreibung:</b> CAT 6a U/FTP Installation Cable, 305 m, Simplex, E <sub>ca</sub>        | <b>Leistungsfähigkeit:</b> 10 Gbit Ethernet, 500 MHz, AWG 23/1                       |
| <b>Technische Spezifikationen:</b> CAT 6a U/FTP Installation Cable, 305 m, Simplex, E <sub>ca</sub> | <b>Abmessungen:</b> 10.5 mm diameter, 1.5 mm jacket thickness                        |
| <b>Material:</b> Polyethylene (PE) jacket, Copper-plated steel braid, PVC insulation                | <b>Temperaturbereich:</b> -40°C to +75°C   |
| <b>Leistungsfähigkeit:</b> 10 Gbit Ethernet, 500 MHz, AWG 23/1                                      | <b>Flammverhalten:</b> LSZH (Low Smoke Zero Halogen)                                 |
| <b>Abmessungen:</b> 10.5 mm diameter, 1.5 mm jacket thickness                                       | <b>Umweltverträglichkeit:</b> RoHS compliant   |
| <b>Temperaturbereich:</b> -40°C to +75°C  | <b>CE-Zertifizierung:</b> CE, Eca, CPL class   |
| <b>Flammverhalten:</b> LSZH (Low Smoke Zero Halogen)  | <b>RoHS:</b> RoHS compliant  |
| <b>Umweltverträglichkeit:</b> RoHS compliant  | <b>CE-Zertifizierung:</b> CE, Eca, CPL class   |
| <b>CE-Zertifizierung:</b> CE, Eca, CPL class  | <b>RoHS:</b> RoHS compliant  |

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Leistungsfähigkeit / Performance Properties

| Typ | AWG | MHz | PL NEXT | AN | PS NEXT | DL | ELEXT | PL NEXT |
|-----|-----|-----|---------|----|---------|----|-------|---------|
| 1   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 2   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 3   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 4   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 5   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 6   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 7   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 8   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 9   | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |
| 10  | 23  | 500 | 68      | 68 | 68      | 68 | 68    | 68      |

**Intertek**

ETL Verified Certificate of Conformance Number: 1942299CSP-011

Product Description: CAT 6a U/FTP Installation Cable, 305 m, Simplex, E<sub>ca</sub>

Approved By: [Signature]

**GHMT**

Certificate No. 1988A-21

Zertifikat No. 1988A-21

Category 6e

Category 6e

GHMT Type Approval

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EN 50521-1

| EN 50521-1 | Produktklasse | Leistungsfähigkeit (MHz) | Anforderungen an die Verkabelung                             | Zusätzliche Anforderungen                                 |
|------------|---------------|--------------------------|--|---|
| B2ca       | Sehr hoch     | 1+                       | • Typischerweise<br>• 100% Abschirmung<br>• 100% Abschirmung | • Abschirmung<br>• 100% Abschirmung<br>• 100% Abschirmung |
| Cca        | Hoch          | 1                        | • Typischerweise<br>• 100% Abschirmung<br>• 100% Abschirmung | • Abschirmung<br>• 100% Abschirmung<br>• 100% Abschirmung |
| Dca        | Mittel        | 3                        | • Typischerweise<br>• 100% Abschirmung<br>• 100% Abschirmung | • Abschirmung<br>• 100% Abschirmung<br>• 100% Abschirmung |
| Eca        | Gering        | 3                        | • Typischerweise<br>• 100% Abschirmung<br>• 100% Abschirmung | • Abschirmung<br>• 100% Abschirmung<br>• 100% Abschirmung |

Safety notes

- Data cables must not be bent, stretched or twisted excessively. Sharp bends can damage the cable sheath and lead to failures or short circuits.
- Installation only by trained specialists.
- Installation in dry rooms.
- The data cable must not be in direct contact with other electrical cables or high-voltage sources in order to avoid electromagnetic interference.

EU responsible person

EU based economic operator ensuring the product complies with the required regulations.

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