

# DIGITUS® Cat. 6A U/FTP Installation Cable, 305 m, Simplex, Dca, Easy Pull Box

DK-1624-A-VH-305  
EAN 4016032344148



## CAT 6A U-FTP installation cable, 500 MHz Dca (EN 50575), AWG 23/1, 305 m, Easy pull Box

The Digitus® Cat.6A U/FTP installation cable features the following cable construction: 4x2x AWG23/1, and achieves a transmission frequency of up to 500 MHz. The halogen-free cable jacket complies with the IEC 60332-1, FRNC-B, and LSZH-1 standards, as well as the Building Products Regulation (BauPVO) Euroclass Dca. The cable is suitable for structured building cabling in secondary and tertiary areas. Compliant with the standards ISO/IEC 11801, DIN EN 50173, and 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 evaluating and verifying consistency 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 individual pairs: aluminum-laminated polyester film, providing 100% coverage
- Outer jacket: Eca to B2ca in accordance with EN 50575; LSZH
- Outer jacket 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:
- Tensile strength: 150 N 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 ohms @ 4–100 MHz; 100±25 ohms @ 100–500 MHz;
- Capacitance: 45 pF/m nominal @ 1kHz
- Capacitance asymmetry (pair-to-ground): 1.6 pF/m max. @ 1 kHz
- Insulation resistance: 5 GOhm x km min.
- Loop resistance: 190 ohms/km max. (2% max. unbalanced resistance)
- Operating voltage: 72 Vdc max.
- Coupling damping: CA Type 2
- Phase delay: 450 nS/100 m max.
- Propagation delay: 25 nS/100 m max.
- Isolation 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: Dca
- 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)	cm³
Packaging Unit Carton	1	17.00	33.00	39.00	38.00	48,906.00
Packaging Unit Inside	1	17.00	33.00	39.00	38.00	48,906.00
Packaging Unit Single	1	17.00	33.00	39.00	38.00	48,906.00
Net single without Packaging	1	0.00	0.00	0.00	0.00	0.00

More images:

**DIGITUS**

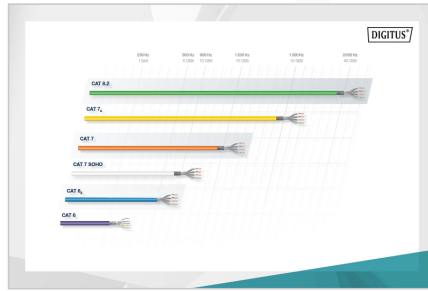
**RFK-Einstufung**  
 B2ca Sehr hoch  
 Cca Hoch  
 Dca Mittel  
 Eca Gering

**Leistungsleistung (dBm)**  
 1+  
 3

**Adaption für cat6/6a/7/7e/10G**  
 • 100% Kompatibilität  
 • 100% Kompatibilität  
 • 100% Kompatibilität  
 • 100% Kompatibilität

**Zusätzliche Funktionen**  
 • 100% Kompatibilität  
 • 100% Kompatibilität  
 • 100% Kompatibilität  
 • 100% Kompatibilität

**Leistungsleistung (dBm)**  
 s1a  
 d1  
 a1



**GHMT**

**Certificate**  
 No. 16684-11  
 Category 6a

**Zertifikat**  
 No. 16684-11  
 Kategorie 6a

Balanced cable, Copper, Category 6a  
 GHMT Type Approval

Spezialkabel Kupfer, Kategorie 6a  
 GHMT Type Approval

**Intertek**

**ETL Verified Certificate of Compliance Number: 161223807-001**

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

Model: DK-1623-A-VH-305

Manufacturer: Digitus Electronics GmbH

**DIGITUS**

**Linkage diagram**

ITEM	DET	NEXT	PS NEXT	AGL	PS AGL	IL	ELNET	PS ELNET
1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
2	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
3	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
5	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
6	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
7	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
8	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1

**DIGITUS**

**Produktdaten Product Information**

Model: DK-1623-A-VH-305

Material: Copper

Length: 305 m

**Physikalische Spezifikationen Physical Properties**

Outer Diameter: 10.5 mm

Inner Diameter: 7.5 mm

Weight: 1.2 kg

**Elektrische Eigenschaften Electrical Properties**

Frequency: 1-100 MHz

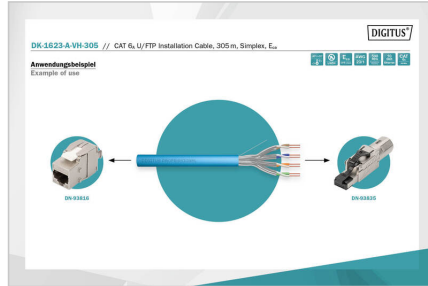
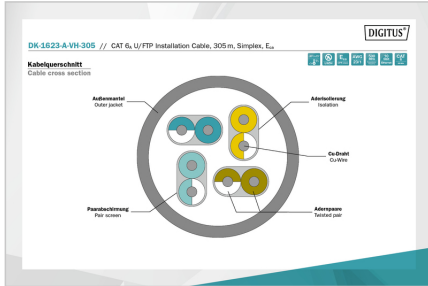
Attenuation: 0.5 dB/100m

Return Loss: 15 dB

**Mechanische Eigenschaften Mechanical Properties**

Bend Radius: 100 mm

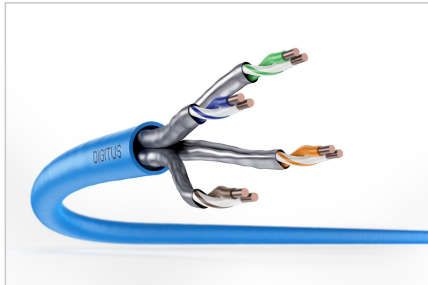
Tensile Strength: 100 N



**DIGITUS**

AWG 23/1  
 500 MHz  
 10 Gbit Ethernet  
 CAT 6a  
 20°/+75°  
 LSZH  
 CPR class E<sub>ca</sub>

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



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 only 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.

**ASSMANN Electronic GmbH**  
 Auf dem Schüffel 3  
 Lüdenscheid, Germany  
<https://www.assmann.com>  
[info@assmann.com](mailto:info@assmann.com)