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 @ 1 KHz
- 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

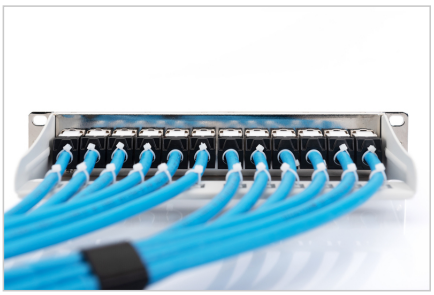
- Assortment: Twisted Pair Installation Cables
- Category: CAT 6A
- Shielding: U-FTP, pairs in metal foil
- CPR: Eca
- Length: 305 m
- Color: light-blue
- Jacket: LSOH
- Structure: 4 x 2 AWG 23/1, solid twisted pair

Logistics

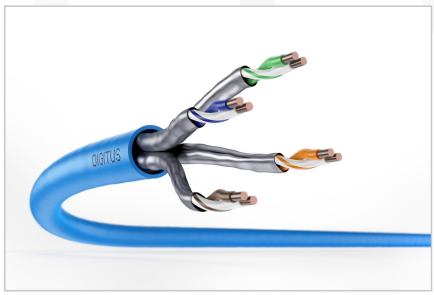
	Number (pcs)	Weight (kg)	Depth (cm)	Width (cm)	Height (cm)	cm³
Packaging Unit Carton	1	14.96	37.00	37.00	22.00	30,118.00
Packaging Unit Inside	1	14.96	37.00	37.00	22.00	30,118.00
Packaging Unit Single	1	14.96	37.00	37.00	22.00	30,118.00
Net single without Packaging	0	0.00	0.00	0.00	0.00	0.00

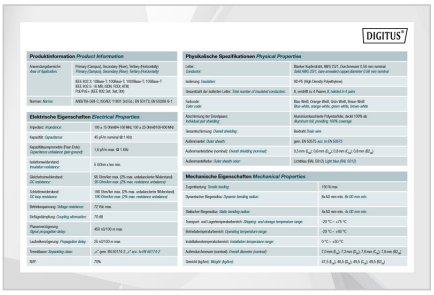
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More images:









Produktinformation *Product Information*

Anwendungsbereiche: *Area of Application:*	Primary Carryout, Secondary (Riser), Tertiary (Horizontally) *Primary Carryout, Secondary (Riser), Tertiary (Horizontally)*
	802.3(2.5) 1Gbase-T, 10Gbase-T, 1/2Gbase-T 802.5(2.5) 1/4/8G BASE-T(X) ATM, FH-PHY-802.15(C, 3d, 3m)
Normen: *Norms:*	ANSI/TIA-568-C.2/ISO/IEC 11801 2nd Ed./EN 50173, EN 50288-9-1

Elektrische Eigenschaften *Electrical Properties*

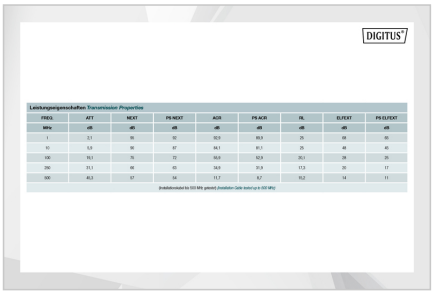
Impedanz: *Impedance:*	100 ± 12 Ohm(f= 1-10 MHz), 120 ± 22 Ohm(f=10-100 MHz)
Kapazität: *Capacitance:*	45 pF/m nominal @ 1 kHz
Kapazitätsunsymmetrie (Paar-Erde): *Capacitance unbalance pair ground:*	1.6 pF/m max. @ 1 kHz
Isolationswiderstand: *Insulation resistance:*	5 GOhm x km min.
Gleichstromwiderstand: *DC resistance:*	55 Ohm/km max. (7% max. unbalancierter Widerstand) *55 Ohm/km max. (7% max. resistance unbalance)*
Schleifenwiderstand: *DC loop resistance:*	100 Ohm/km max. (7% max. unbalancierter Widerstand) *100 Ohm/km max. (7% max. resistance unbalance)*
Betriebsspannung: *Voltage resistance:*	72 Vdc max.
Dämpfungsbelag: *Coupling attenuation:*	75 dB
Paarweise Laufzeit: *Signal propagation delay:*	425 ns/100 m max.
Laufzeitverzögerung: *Propagation delay:*	25 ns/100 m max.
Testklasse: *Expanding class:*	„F" gem. EN 50173-1 „F" acc. to EN 50173-1
NVP:	70%

Physikalische Spezifikationen *Physical Properties*

Leiter: *Conductor:*	Blanker Kupferdraht, AWG 23/1, Durchmesser 0,56 mm nominal *Solid AWG 23/1, bare annealed copper, diameter 0.56 mm nominal*
Isolierung: *Insulation:*	HD-PE (High Density Polyethylene)
Anzahl/Farbe der isolierten Leiter: *Total number of insulated conductors:*	8, verdrillt zu 4 Paaren, 8, twisted in 4 pairs
Aderpaare: *Color code:*	Blau-Weiß, Orange-Weiß, Grün-Weiß, Braun-Weiß *Blue-white, orange-white, green-white, brown-white*
Abschirmung der Einzelpaare: *Individual pair shielding:*	Kombinationsfolie Polyesterfolie, doppelt 100% alu *Aluminum foil, providing 100% coverage*
Gesamtschirmung: *Overall shielding:*	Geflecht *Braid wire*
Außenmantel: *Outer sheath:*	grau, EN 50575 acc. to EN 50575
Außenmantelstärke (nominal): *Overall shielding (nominal):*	0,5 mm d_{Cu} / 0,6 mm d_{Cu} / 0,8 mm d_{Cu} / 0,8 mm $\varnothing_{Cu}$
Außenmantelfarbe: *Outer sheath color:*	Lichtblau (RAL 5012) *Light blue (RAL 5012)*

Mechanische Eigenschaften *Mechanical Properties*

Zugentlastung: *Tensile loading:*	100 N max.
Dynamische Biegeradius: *Dynamic bending radius:*	8x AD mm min. 8x OD mm min.
Statischer Biegeradius: *Static bending radius:*	4x AD mm min. 4x OD mm min.
Transport- und Lagertemperaturbereich: *Shipping- and storage temperature range:*	-20 °C ~ +75 °C
Betriebstemperaturbereich: *Operating temperature range:*	-20 °C ~ +60 °C
Installationstemperaturbereich: *Installation temperature range:*	0 °C ~ +50 °C
Außendurchmesser (nominal): *Overall diameter (nominal):*	7,5 mm d_{Cu} / 7,9 mm d_{Cu} / 7,9 mm d_{Cu} / 8 mm $\varnothing_{Cu}$
Gewicht (kg/km): *Weight (kg/km):*	47,5 d_{Cu} / 49,5 d_{Cu} / 49,5 d_{Cu} / 49,5 $\varnothing_{Cu}$



Leistungseigenschaften *Transmission Properties*

FREQ.	ATT	NEXT	PS NEXT	ACR	PS ACR	PSL	ELFEXT	PS ELFEXT
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	2,1	95	92	92,9	89,9	25	68	65
10	5,9	80	67	64,1	61,1	25	48	45
100	15,1	75	72	56,9	52,9	20,1	28	25
250	21,1	66	63	34,9	31,9	17,3	20	17
500	45,3	57	54	11,7	8,7	15,2	14	11

(Produktkonstrukt bis 500 MHz getestet) *(Installation Cable tested up to 500 MHz)*

