

DIGITUS® CAT 6 F/UTP installation cable, 100 m, simplex, Dca

DK-1624-VH-1

EAN 4016032441984



CAT 6 F-UTP installation cable, 250 MHz Dca (EN 50575), AWG 23/1, 100 m paper box,

The Digitus Cat 6 F/UTP installation cable is designed for use in the structured data center and the building cabling according to ISO/IEC 11801, DIN EN 50288-5-1, DIN EN 50173, IEC 60332-1. The cable is perfectly suitable for the transmission of both analog and digital data and also supports POE and POE+.

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

- Physical properties:
- Conductor: Bare annealed copper, solid AWG 23/1
- System/s of AVCP: AVCP 3
- Insulation: HD-PE (High Density Polyethylene)
- Total number of insulated conductors: 8, twisted in 4 pairs
- Color code: Blue-white, orange-white, green-white, brown-white
- Individual pair shield: None
- Overall shielding: Aluminum foil, providing 100% coverage, drain wire
- Outer sheath: Eca to B2ca acc. to EN 50575; LSZH
- Outer sheath diameter (nominal): 0.5 mm (Eca); 0,6 mm (Dca); 0,8 mm (Cca); 0,08 mm (B2ca)
- Outer sheath color: Purple
- Mechanical properties:
- Tensile loading: 150N max.
- Dynamic bending radius: 8x AD mm min.
- Static bending radius: 4x AD mm min.
- Shipping- and storage temperature range: -20 °C up to +60 °C
- Operating temperature range: -20 °C up to +75 °C

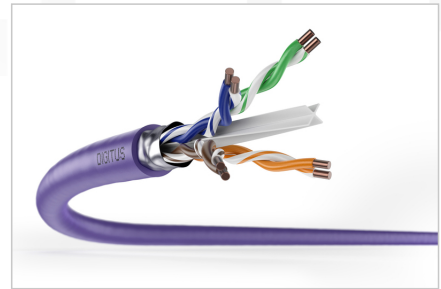
- Installation temperature range: 0 °C up to +50 °C
- Overall diameter Simplex (nominal): 7.0 (Eca); 7,2 mm (Dca); 7,6 mm (Cca); 7,6 mm (B2ca)
- Weight (kg/km): 46 kg (Eca); 47 kg (Dca); 48,5 kg (Cca); 48,5 kg (B2ca)
- Electrical properties:
- Impedance: 100±5 Ohm @ 1-250 MHz
- Capacitance: 45 pF/m nominal @ 800 Hz
- Capacitance unbalance (pair-ground): 1.5 pF/m max. @ 1 KHz
- Insulation resistance: 5 GOhm x km min.
- DC loop resistance: 147 Ohm/km max. (2% max. resistance unbalance)
- Voltage resistance: 72 Vdc max.
- Coupling attenuation: 40 dB
- Signal propagation delay: 535 nS/100 m max.
- Propagation delay: 20 nS/100 m max.
- Separating class: „c” acc. to EN 50174-2
- NVP: 69%

Attributes

- Assortment: Twisted Pair Installation Cables
- Category: CAT 6
- Shielding: F-UTP, foil shielding
- CPR: Dca
- Length: 100 m
- Color: violet
- Jacket: LSOH
- Structure: 4 x 2 AWG 23/1, solid twisted pair

Logistics						
	Number (pcs)	Weight (kg)	Depth (cm)	Width (cm)	Height (cm)	cm ³
Packaging Unit Carton	1	0.00	0.00	0.00	0.00	0.00
Packaging Unit Inside	1	0.00	0.00	0.00	0.00	0.00
Packaging Unit Single	1	0.00	0.00	0.00	0.00	0.00
Net single without Packaging	0	0.00	0.00	0.00	0.00	0.00

More images:



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AWG 23/1
250 MHz
1 Gbit Ethernet
CAT 6
20°/75°
LSZH
E_{ca} CPN class

CAT 6 F/UTP Installation Cable, 100 m, Simplex, E_{ca}

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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
Bestandteile / Components: Patchkabel (Patch Cable) 100 m, Simplex, E _{ca} Patchkabel (Patch Cable) 100 m, Simplex, E _{ca} Patchkabel (Patch Cable) 100 m, Simplex, E _{ca} Patchkabel (Patch Cable) 100 m, Simplex, E _{ca}	Material: Polyethylene (PE) / Polypropylen (PP) Farbe / Color: Lila (Purple) Struktur / Structure: 4x25/7/28 Struktur / Structure: 4x25/7/28 Struktur / Structure: 4x25/7/28 Struktur / Structure: 4x25/7/28
Technische Eigenschaften / Technical Properties: Geschwindigkeit (Speed) 10 Gbit/s Frequenz (Frequency) 250 MHz Dämpfung (Attenuation) 20 dB/100m Rückflusskoeffizient (Reflection Coefficient) S_{11} -20 dB Temperaturbereich (Temperature Range) -20°C bis 75°C LSZH (Low Smoke Zero Halogen)	Mechanische Eigenschaften / Mechanical Properties: Biegehalbwinkel (Bend Radius) R_{min} 100 mm Zugkraft (Tension) F_{max} 100 N Bruchdehnung (Elongation) E_{max} 100% Temperaturbereich (Temperature Range) -20°C bis 75°C LSZH (Low Smoke Zero Halogen)

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Leistungsmerkmale / Transmission Properties

Strecke / Length	AWG 23/1	AWG 22/1	AWG 21/1	AWG 20/1	AWG 19/1	AWG 18/1	AWG 17/1	AWG 16/1	AWG 15/1
100 m	1.2	1.1	1.0	0.9	0.8	0.7	0.6	0.5	0.4
50 m	0.6	0.5	0.4	0.3	0.2	0.1	0.1	0.1	0.1
20 m	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
10 m	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Intertek

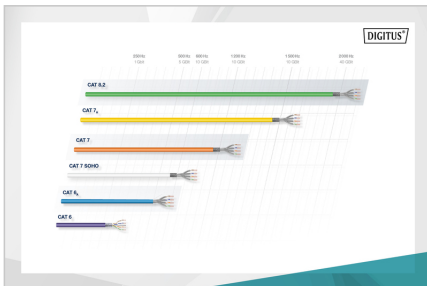
ETL Verified Certificate of Conformance Number: 1615281007-001

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CEP-Bestimmungen / CEP Requirements

CEP-Bestimmung / CEP Requirement	Druckverteilung / Pressure Distribution	Leitungsgeometrie / Wire Geometry	Abgleich der verbleibenden Leiter / Balancing of remaining conductors	Zusammenfassung / Summary
B2 _{ca}	Stärke hoch / High strength	1+	• Typischerweise • Regelmäßige Anordnung	s
C _{ca}	Mittel / Medium	3	• Regelmäßige 1/3-ung • Regelmäßige 1/3-ung	d
D _{ca}	Mittel / Medium	3	• Typischerweise • Regelmäßige Anordnung	a
E _{ca}	Stärke hoch / High strength	3	• Typischerweise • Regelmäßige Anordnung	a



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.
- For indoor cables (LSZH jacket): Suitable only for installation in dry indoor environments.
- 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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