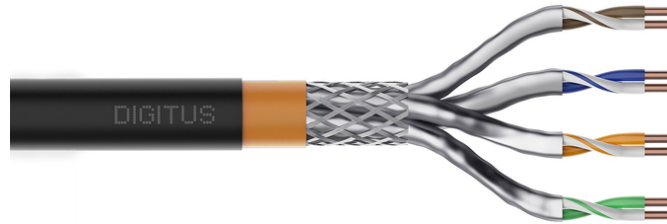


# DIGITUS® CAT 7 S/FTP data cable - underground installation cable, 100 m, simplex, PE

DK-1741-VH-1-OD  
EAN 4016032387435



## CAT 7 S-FTP outdoor installation cable, 1200 MHz PE, inner Eca (LSZH-1), AWG 23/1, 100m, sx, bl&pu

The Digitus® Professional Cat.7 S/FTP underground cable is characterized by the following cable structure 4x2x AWG23/1 and achieves a transmission frequency of up to 1200 MHz. The cable has a PE outer sheath and a halogen-free inner sheath and conforms to the IEC 60332-1, FRNC-B, LSZH-1 and BauPVO Euroclass Eca standards. The cable is suitable for installations in dry or damp rooms, outdoors or in the ground. Conforms to the standards ISO/IEC 11801, DIN EN 50173, DIN EN 50288-4-1.

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

- Physical properties:
- Conductor: Bare copper wire, AWG 23/1
- Insulation: SFS-PE (foamed polyethylene jacket)
- 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%
- Overall shielding: copper braiding
- Outer sheath: PE (polyethylene); UV-resistant
- Outer sheath thickness (nominal): 0.50 mm nominal
- Outer casing color: Black (RAL 9005)
- Mechanical properties:
- Strain relief: 150N max.
- Dynamic bending radius: 8x AD mm min.
- Static bending radius: 4x AD mm min.

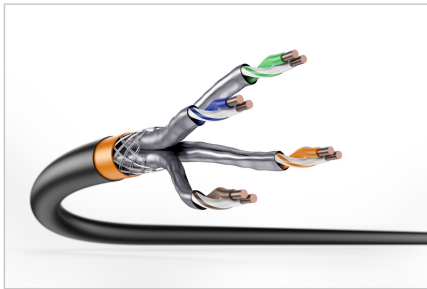
- Transport and storage temperature range: -20 °C to +60 °C
- Operating temperature range: -50 °C to +60 °C
- Installation temperature range: 0 °C to +60 °C
- Outer diameter simplex (nominal): 8.5 mm (Eca)
- Weight (kg/km): 66.5 kg/km
- Electrical properties:
- Impedance: 100±5 Ohm @ 4-100 MHz; 100±25 Ohm @ 100-1200 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.
- DC resistance: 95 Ohm/km max. (2% max. unbalanced resistance)
- Loop resistance: 190 Ohm/km max. (2% max. unbalanced resistance)
- Operating voltage: 72 Vdc max.
- Coupling attenuation: CA-Type 1b
- Phase delay: 450 nS/100 m max.
- Time delay: 15 nS/100 m max.
- Separation class: "d" according to EN 50174-2
- NVP: 79%

### Attributes

- Assortment: Twisted Pair Installation Cables
- Category: CAT 7
- Shielding: S-FTP, pairs in metal foil and braid shielding
- CPR: Eca
- Length: 100 m
- Color: black
- Jacket: PE
- 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	5.75	15.00	32.00	32.00	15.36
Packaging Unit Inside	1	5.75	15.00	32.00	32.00	15.36
Packaging Unit Single	1	5.75	15.00	32.00	32.00	15.36
Net single without Packaging	0	0.00	15.00	32.00	32.00	15.36

More images:



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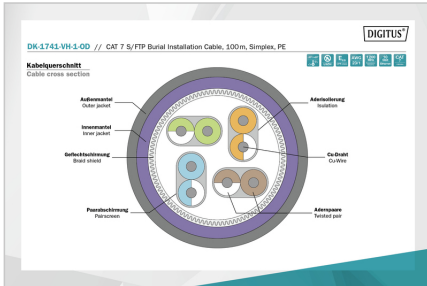
AWG 23/1 | 1200 MHz | 10 Gbit Ethernet | CAT 7 | 50°/±60° | LSZH | E Cca GPR class

**CAT 7 S/FTP Burial Installation Cable, 100 m, Simplex, PE**

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DK-1741-VH-1-00 // CAT 7 S/FTP Burial Installation Cable, 100m, Simplex, PE

Anwendungsbeispiel  
Example of use



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Technische Spezifikationen Physical Properties		Mechanische Eigenschaften Mechanical Properties	
<b>AWG</b>	23/1	<b>Outer diameter</b>	10.5mm
<b>Conductor</b>	10x 23 AWG	<b>Outer diameter (without shield)</b>	8.5mm
<b>Shielding</b>	10x 23 AWG	<b>Shielding thickness</b>	0.15mm
<b>Pair sheath</b>	10x 23 AWG	<b>Pair sheath thickness</b>	0.15mm
<b>Inner jacket</b>	10x 23 AWG	<b>Inner jacket thickness</b>	0.15mm
<b>Outer jacket</b>	10x 23 AWG	<b>Outer jacket thickness</b>	0.15mm
<b>Material</b>	LSZH	<b>Material</b>	LSZH
<b>Color</b>	Black	<b>Color</b>	Black
<b>Length</b>	100m	<b>Length</b>	100m
<b>Weight</b>	~1.5kg	<b>Weight</b>	~1.5kg

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**Leistungseigenschaften Transmission Properties**

Frequency (MHz)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)	Att. (dB/100m)
1	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
10	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
100	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
1000	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
10000	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
100000	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5
1000000	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5	9.5



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Category	Class	Shielding	Pair sheath	Inner jacket	Outer jacket
BZ <sub>Cca</sub>	1+	100%	100%	100%	100%
C <sub>Cca</sub>	3	100%	100%	100%	100%
D <sub>Cca</sub>	3	100%	100%	100%	100%
E <sub>Cca</sub>	3	100%	100%	100%	100%



**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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