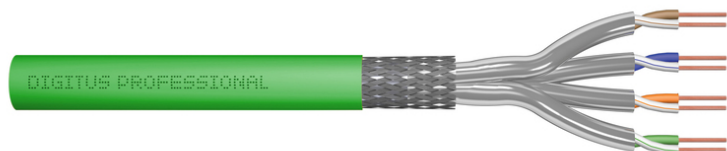


# DIGITUS CAT 8.2 S/FTP installation cable, 500 m, Simplex, Dca-s2,d1,a1

DK-1843-VH-5  
EAN 4016032380542



### CAT 8.2 S-FTP install. cable, 2000 MHz, AWG 22/1 Dca, 500 m, drum, simplex, grün

The Digitus Cat 8.2 S/FTP installation cable is designed for use in the structured data center and the building cabling according to ISO/IEC 11801, DIN EN 50288-12-1, DIN EN 50173, IEC 60332-3-24. The cable is perfectly suitable for the transmission of both analog and digital data and also supports POE. The shielding structure is composed of single shielded pairs with a tinned copper braid, which ensures excellent shielding and electrical values.

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

- Physical properties:
- Conductor: Bare copper wire, AWG 22/1
- System(s) of assessment and verification of constancy of performance: System 3
- 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: Tinned copper braiding
- Outer sheath: Dca-s2,d1,a1 according to EN 50575
- Outer sheath thickness (nominal): 0.55 mm nominal
- Outer sheath color: Green
- 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 +75 °C


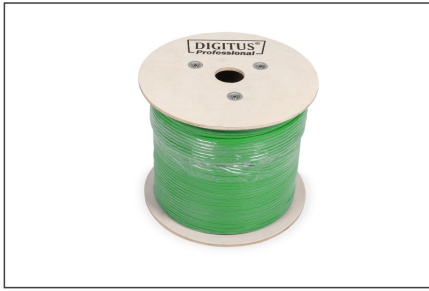
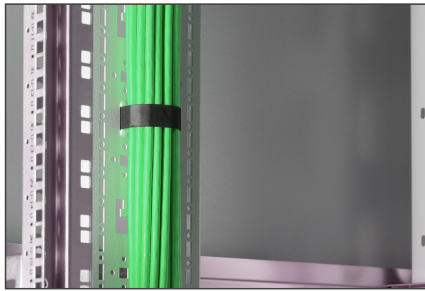
- Operating temperature range: -20 °C to +60 °C
- Installation temperature range: 0 °C to +50 °C
- Outer diameter simplex (nominal): 7.9 mm nominal (Dca)
- Weight (kg/km): 65 kg/km
- Electrical properties:
- Impedance: 100±15Ohm @ 1 - 2000MHz
- Capacitance: 99 pF/30m nominal @ 1 KHz
- Capacitance unbalance (pair-earth): 99pF/30m max. @ 1 KHz
- Insulation resistance: 5 GOhm x km min.
- DC resistance: 2.40hm/30m max. (4% max. unbalanced resistance)
- Loop resistance: 5.6 Ohm/24m max. (3% max. unbalanced resistance)
- Operating voltage: 72 Vdc max.
- Coupling attenuation: CA-Type 1
- Phase delay: 171 nS/30 m max.
- Time delay: 13.5 nS/130 m max.
- Separation class: "d" according to EN 50174-2
- NVP: 79%
- Assortment: Twisted Pair Installation Cables
- Category: CAT 8.2
- Shielding: S-FTP, pairs in metal foil and braid shielding
- CPR: Dca
- Length: 500 m
- Color: green
- Jacket: LSOH
- Structure: 4 x 2 AWG 22/1, solid twisted pair

#### Package contents

- CAT 8.2 S/FTP installation cable on drum, 500 m, Simplex, Dca

Logistics						
	Number (pcs)	Weight (kg)	Depth (cm)	Width (cm)	Height (cm)	cm³
Packaging Unit Carton	1	30.00	34.00	39.50	39.50	53,048.50
Packaging Unit Inside	1	30.00	34.00	39.50	39.50	53,048.50
Packaging Unit Single	1	30.00	34.00	39.50	39.50	53,048.50
Net single without Packaging	1	0.00	0.00	0.00	0.00	0.00


More images:



**Leitungsparameter Transmission Properties**

AWG	AWG	MM	MM	AWG	AWG	AWG	AWG
23	22	0.60	0.60	0.60	0.60	0.60	0.60
22	21	0.60	0.57	0.57	0.57	0.57	0.57
21	20	0.60	0.54	0.54	0.54	0.54	0.54
20	19	0.60	0.51	0.51	0.51	0.51	0.51
19	18	0.60	0.49	0.49	0.49	0.49	0.49
18	17	0.60	0.47	0.47	0.47	0.47	0.47
17	16	0.60	0.45	0.45	0.45	0.45	0.45
16	15	0.60	0.43	0.43	0.43	0.43	0.43
15	14	0.60	0.41	0.41	0.41	0.41	0.41
14	13	0.60	0.39	0.39	0.39	0.39	0.39
13	12	0.60	0.37	0.37	0.37	0.37	0.37
12	11	0.60	0.35	0.35	0.35	0.35	0.35
11	10	0.60	0.33	0.33	0.33	0.33	0.33
10	9	0.60	0.31	0.31	0.31	0.31	0.31
9	8	0.60	0.29	0.29	0.29	0.29	0.29
8	7	0.60	0.27	0.27	0.27	0.27	0.27
7	6	0.60	0.25	0.25	0.25	0.25	0.25
6	5	0.60	0.23	0.23	0.23	0.23	0.23
5	4	0.60	0.21	0.21	0.21	0.21	0.21

Leitungsparameter 1000 MHz twisted-pair impedance Z<sub>1000</sub> [Ω]



**Physikalische Spezifikation Physical Properties**


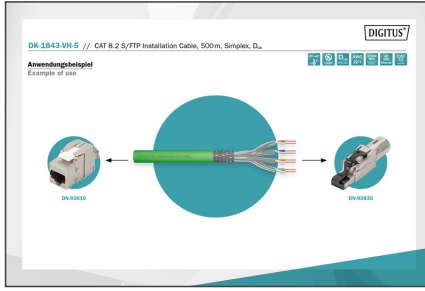
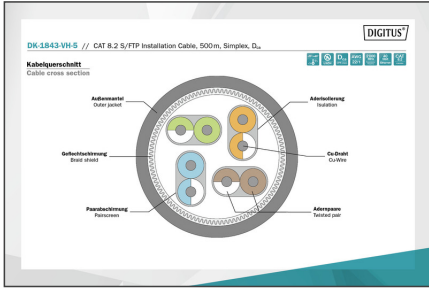
Property	Value	Property	Value
Standard	ISO/IEC 11801 Class E (Cat 8.2)	Number of conductors	24 x AWG 22/1 twisted pair
Impedance	100 Ω ± 0.5% (1000 MHz)	Shielding	None
Attenuation	≤ 26.0 dB/100m @ 100MHz	Shielding	None
Return Loss	≥ 20.0 dB @ 100MHz	Shielding	None
Capacitance	≤ 50 pF/m @ 100MHz	Shielding	None
Propagation delay	≤ 5.0 ns/m @ 100MHz	Shielding	None
Delay skew	≤ 0.1 ns/100m @ 100MHz	Shielding	None
Dispersion	≤ 0.05 ns/m @ 100MHz	Shielding	None
Twist	27.5 ± 0.5 turns/100m	Shielding	None

**Elektrische Spezifikation Electrical Properties**

Property	Value	Property	Value
Rated Voltage	1000 V (IEC 60332)	Temperature Class	IEC 60216 Class B (90°C)
Operating Temperature	-40°C to +75°C	Flammretardancy	IEC 60332-1, IEC 60332-2
Low Temperature Storage	-40°C	Low Temperature Flexing	IEC 60754-2 Class B
High Temperature Storage	+75°C	High Temperature Flexing	IEC 60754-2 Class B
Humidity	5% to 95% RH	Humidity Resistance	IEC 60950 Class B


**Mechanische Spezifikation Mechanical Properties**

Property	Value	Property	Value
Outer Diameter	9.5 ± 0.1 mm	Bending Radius	≥ 25 mm
Inner Diameter	7.5 ± 0.1 mm	Minimum Bend Radius	≥ 15 mm
Stranding	27.5 ± 0.5 turns/100m	Twist Pitch	27.5 ± 0.5 turns/100m
Weight	115 ± 5 g/100m	Weight	115 ± 5 g/100m



**AWG 22/1** **2000 MHz** **40 Gbit Ethernet** **CAT 8.2**  
**20' x 60'** **LSZH** **D<sub>ca</sub> Class** **CPR class**

**CAT 8.2 S/FTP Installation Cable, 500 m, Simplex, D<sub>ca</sub>**

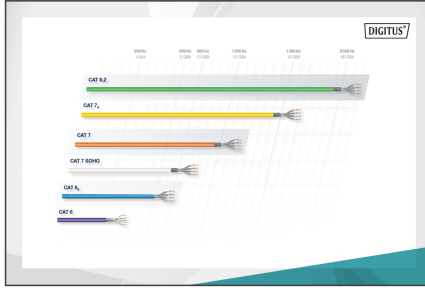


**CEP Konformität**

<b>B2ca</b> (Smoke)	<b>H0</b> (Flame retardant)	<b>1+</b> • Spinnungsbildung • Flammwidrige Verwicklung • Flammwidrige Verwicklung • Flammwidrige Verwicklung	<b>s</b> • Spinnungsbildung • Flammwidrige Verwicklung • Flammwidrige Verwicklung
<b>C<sub>ca</sub></b> (Cable jacket)	<b>H0ca</b> (Flame retardant)		
<b>D<sub>ca</sub></b> (Cable jacket)	<b>H0ca</b> (Flame retardant)		
<b>E<sub>ca</sub></b> (Cable jacket)	<b>H0ca</b> (Flame retardant)	<b>3</b> • Spinnungsbildung • Flammwidrige Verwicklung	<b>d</b> • Spinnungsbildung • Flammwidrige Verwicklung
<b>C<sub>ca</sub></b> (Cable jacket)	<b>H0ca</b> (Flame retardant)		

**CEP Konformität**

<b>C<sub>ca</sub></b> (Cable jacket)	<b>s1a</b> (Cable jacket)	<b>d1</b> (Cable jacket)	<b>a1</b> (Cable jacket)
--------------------------------------	---------------------------	--------------------------	--------------------------



**Compliance Statement** No. 2023-225

**DECLARATION OF CONFORMITY**

I, the undersigned, hereby declare under penalty of perjury that the following products are in conformity with the CE mark and the applicable standards and regulations.

**Product Name:** CAT 8.2 S/FTP Installation Cable, 500 m, Simplex, D<sub>ca</sub>

**Manufacturer:** DIGITUS Professional

**Place of Origin:** [Address]

**Date:** [Date]

**Signature:** [Signature]