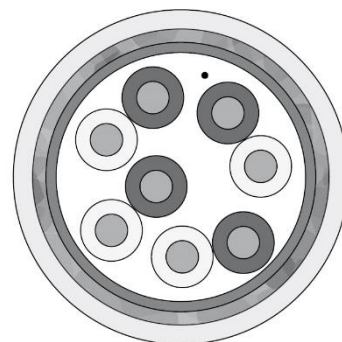
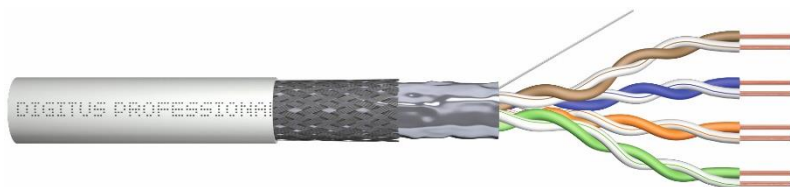


## Twisted Pair Installation Cable - Category 5e Class D - SF/UTP



### Abstract

CAT 5e Class D, SF/UTP, Twisted Pair Installation Cable, 100 MHz

### Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 2.5 GBase-T  
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE

### Standards

ANSI/TIA 568-C; ISO/IEC 11801 3<sup>rd</sup> Ed.; EN 50173; EN 50288-2-1;  
IEC 61156-5

### Physical Properties

Conductor	Bare annealed copper, solid AWG 24/1
Insulation	PE (Polyethylene)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	None
Overall shielding	Foil- and braid shielded, with drain wire
Outer sheath	ECA acc. to EN 50575; PVC
Outer sheath diameter (nominal)	0.50 mm nominal
Outer sheath color	Grey (RAL 7035)

### Mechanical Properties

Tensile loading	150 N max.
Dynamic bending radius	8x AD mm min.
Static bending radius	4x AD mm min.
Shipping- and storage temperature range	-20 °C up to +75 °C
Operating temperature range	-20 °C up to +60 °C
Installations temperature range	0 °C up to +50 °C
Overall diameter Simplex (nominal)	6.1 mm nominal
Weight (kg/km)	45 kg



### Electrical Properties

Impedance	100 ± 5 Ohm @ 1-600 MHz
Capacitance	40 pF/m nominal @ 800 KHz
Capacitance unbalance (pair-ground)	1.5 pF/m max. @ 1 KHz
Insulation resistance	5 GOhm x km min.
DC resistance	72 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	147 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	CA-Type 3
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%

### Product Number Information

Item code	Length/Packaging	Reaction to fire acc. to EN 50575	DoP number
DK-1531-V-1	100 m box, simplex	E <sub>CA</sub>	DoP_1000_077
DK-1531-V-305	305 m box, simplex		

### Transmission Properties

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	EL-FEXT	PS-ELFEXT	RL
MHz	dB	dB	dB	dB	dB	dB	dB	dB
1	2.03	62.3	59.3	60.3	57.3	60.75	60.75	17
10	6.46	47.3	44.3	40.8	37.8	40.75	40.75	20
100	21.97	32.29	29.29	10.3	7.3	20.75	20.75	15.1