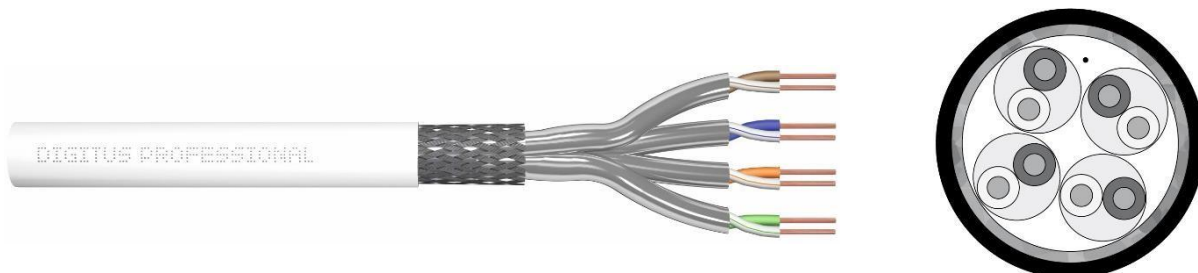




## Twisted Pair Installation Cable – Maxflex, Category 7 Class F – S/FTP



### Abstract

CAT 7 Class F, S/FTP, Maxflex Twisted Pair Installation Cable, 600 MHz

### Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)  
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 2.5GBase-T;  
5GBase-T; 10GBase-T  
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE/PoE+

### Standards

ISO/IEC 11801 3<sup>rd</sup> Ed.; IEC 61156-5  
EN 50173-1/4; EN 50288-4-1

### Physical Properties

Conductor	Bare annealed copper, solid AWG 26/1
Insulation	SFS-PE (Foam-Skin Polyethylene)
Total number of insulated conductors	8, twisted in 4 pairs
Color code	Blue-white, orange-white, green-white, brown-white
Individual pair shielding	Aluminum foil, providing 100% coverage
Overall shielding	Copper braid
Outer sheath	D <sub>CA</sub> acc. to EN 50575; LSZH
Outer sheath diameter (nominal)	0.52 mm nominal
Outer sheath color	White (RAL 9003)

### 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 +50 °C
Installations temperature range	0 °C up to +50 °C
Overall diameter Simplex (nominal)	5.7 mm nominal
Weight (kg/km)	35 kg/km



### Electrical Properties

Impedance	100 ± 15 Ohm @ 4-100 MHz; 100 ± 25 Ohm @ 100-600 MHz
Capacitance	45 pF/m nominal @ 1 KHz
Capacitance unbalance (pair-ground)	1.6 pF/m max. @ 1 KHz
Insulation resistance	5 GOhm x km min.
DC resistance	95 Ohm/km max. (2% max. resistance unbalance)
DC loop resistance	190 Ohm/km max. (2% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	CA-Type 1b
Signal propagation delay	450 nS/100 m max.
Propagation delay	25 nS/100 m max.
Separating class	„d“ acc. to EN 50174-2
NVP	72 %
Maximum operating length	60 m

### Product Number Information

Item code	Length/Packaging	Reaction to fire acc. to EN 50575	DoP number
DK-1743-VH-305-MF-W	305 m box, Simplex	Dca	DoP_1000_050

### 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	3,0	78,0	75,0	76,0	73,0	78,0	75,0	20,0
10	8,9	78,0	75,0	72,1	69,1	74,0	71,0	25,0
100	29,7	72,4	69,4	53,3	50,3	54,0	51,0	20,1
250	49,2	66,5	63,5	35,5	32,5	46,0	43,0	17,3
500	73,4	61,9	58,9	16,6	13,6	40,0	37,0	17,3
600	75,2	60,8	57,8	10,7	7,7	38,4	35,4	17,3

\*\*\*Permanent Link up to a maximum of 60 m\*\*\*