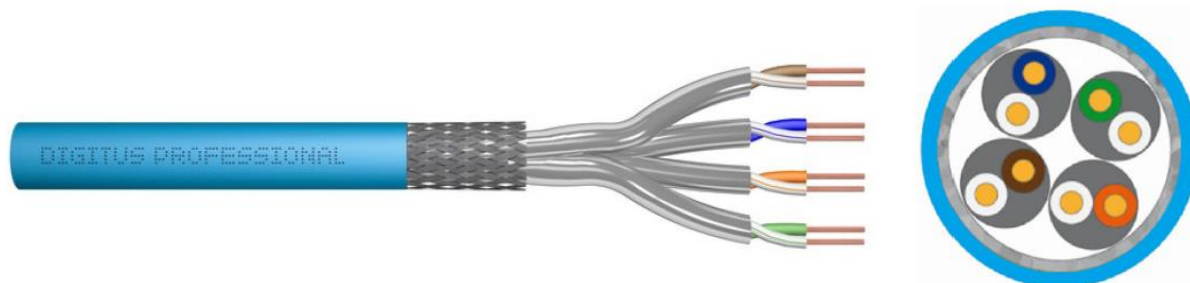




## DIGITUS® Twisted Pair Installation Cable - Category 6A Class E<sub>A</sub> – S/FTP



### Abstract

CAT 6<sub>A</sub> Class E<sub>A</sub>, S/FTP, Twisted Pair Installation Cable, 600 MHz

### Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)  
IEEE 802.3an; 100Base-T; 1000Base-T; 2.5GBase-T; 5GBase-T; 10GBase-T  
IEEE 802.5: 16 MB; ISDN; FDDI; ATM; PoE/PoE+/4PPoE

### Standards

ISO/IEC 11801 3rd Ed.; IEC 61156-5; TIA-568.2-D  
EN 50173-1/4; EN 50288-4-1

### Physical Properties

Conductor	Bare annealed copper, solid AWG 23/1
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	E <sub>CA</sub> acc. to EN 50575, LSZH
Outer sheath diameter (nominal)	0.5 mm
Outer sheath color	Light Blue (RAL 5012)

### Mechanical Properties

Tensile loading	150 N max.
Dynamic bending radius	8x AD mm min.
Static bending radius	4x AD mm min.
Storage temperature range	-20 °C do +75 °C
Operating temperature range	-20 °C do +50 °C
Installations temperature range	0 °C do +50 °C
Overall diameter Simplex (nominal)	7,0 mm
Weight (kg/km)	49,5 kg



### Electrical Properties

Impedance	100 ± 15 Ohm @ 4-100 MHz; 100 ± 25 Ohm @ 100-600 MHz
Capacitance	45 pF/m nominalnie @ 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.
Tłumienie sprzężenia	Type 1b
Signal propagation delay	450 nS/100 m max.
Różnica opóźnień	10 nS/100 m max.
Separating class	„d” acc. to EN 50174-2
NVP	79%

### Product Number Information

Item code	Length/Packaging	Reaction to fire acc. to EN 50575
DK-1641-A-VH-05	50 m / ring	E <sub>CA</sub>
DK-1641-A-VH-1	100 m / ring	E <sub>CA</sub>
DK-1641-A-VH-5	500 m / drum	E <sub>CA</sub>

### 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	2,0	78,0	75,0	76,0	73,0	78,0	75,0	20,0
10	5,9	78,0	75,0	72,1	69,1	74,0	71,0	25,0
100	19,1	72,4	69,4	53,3	50,3	54,0	51,0	20,1
250	31,0	66,5	63,5	35,5	32,5	46,0	43,0	17,3
500	45,3	61,9	58,9	16,6	13,6	40,0	37,0	17,3
600	50,1	60,8	57,8	10,7	7,7	38,4	35,4	17,3
1000	66,9	57,4	54,4	NS	NS	35,3	32,3	13,1
1200	74,4	56,2	53,2	NS	NS	33,8	30,8	12,6

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