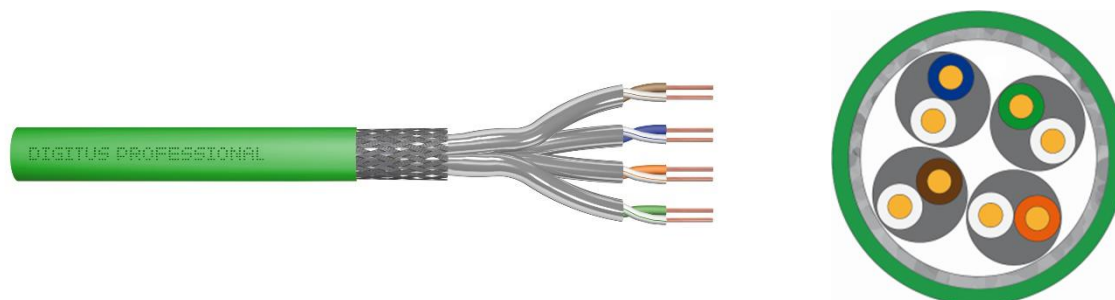


Twisted Pair Installation Cable - Category 8.II Class II - S/FTP



Abstract

CAT 8.II Class II, S/FTP, Twisted Pair Installation Cable, D_{CA} acc. to EN 50575, 2000 MHz

Application areas

Primary (Campus), Secondary (Riser), Tertiary (Horizontally)
IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; 10GBase-T;
25-GBase-T; 40GBase-T

IEEE 802.5: 16 MB; ISDN; FDDI; ATM; CATV; Broadband video;
PoE/PoE+/4PPoE

Normen

ISO/IEC 11801 3rd Ed.; IEC 61156-5
EN 50173-1/4; EN 50288-12-1

FRNC

IEC 60754-2; IEC 61034

Physical Properties

Conductor	Bare annealed copper, solid AWG 22/1
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	Tinned copper wire braid
Outer sheath	D _{CA} - s2, d1, a1 acc. to EN 50575
Outer sheath diameter	0.55 mm nominal
Outer sheath color	Green (RAL 6037)

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	7.9 mm nominal
Halogen free & smoke-proof	IEC 60754-2 & IEC 61034
Weight	60kg/km



Electrical Properties

Impedance	100 ± 5 Ohm @ 1-100 MHz
Capacitance	99 pF/30m nominal @ 1 KHz
Capacitance unbalance (pair-ground)	is not specified
Insulation resistance	5 GOhm x km min.
DC resistance unbalanced)	2.4 Ohm/30m max 72 Ohm/km max. 4% max. resistance unbalance
DC loop resistance	5.6 Ohm/24m max. 3% max. resistance unbalance
Voltage resistance	72 Vdc max.
Coupling attenuation	80 dB
Signal propagation delay	171 nS/30 m max.
Propagation delay	13.5 nS/30 m max.
Separating class	„d“ acc. to EN 50174-2
NVP	74%

Transmission Properties

FREQ.	ATT	NEXT	PS-NEXT	ACR	PS-ACR	RL
MHz	dB	dB	dB	dB	dB	dB
1	2	66.3	63.3	64.3	61.3	23.0
10	2.2	57.2	54.2	55.0	52.0	25.0
100	5.6	45.3	42.3	39.7	36.7	22.2
250	7.9	40.8	37.8	32.9	29.9	20.1
500	12.8	34.8	31.8	22.0	19.0	17.3
600	14.1	33.6	30.6	19.5	16.5	16.8
1000	18.6	30.3	27.3	11.7	8.7	15.2
2000	27.2	25.8	22.8	NS	NS	13.1

Product Number Information

Item code	Length	Packaging	Version
DK-1843-VH-5	500 m	Drum	Simplex
DK-1843-VH-10	1000 m	Drum	Simplex