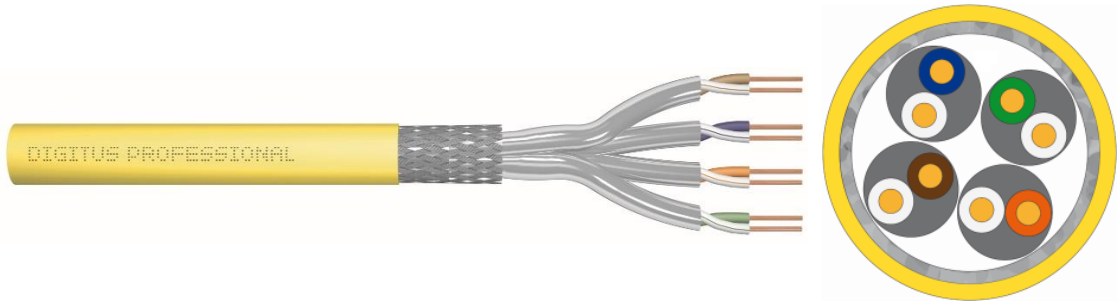
DIGITUS®

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



Abstract

CAT 8.II Class II, S/FTP, Twisted Pair Installation Cable, 2000 MHz

Application areas	Primary (Campus), Secondary (Riser), Tertiary (Horizontally) IEEE 802.3: 5GBase-T; 10GBase-T; 25GBase-T; 40GBase-T IEEE 802.5: CATV; Broadband video; PoE/PoE+/4PPoE
Certification	Force Channel Link Class I (Category 8) (2019-792)
Standards	ISO/IEC 11801 3rd Ed.; IEC 61156-5 EN 50173-1/4; EN 50288-12-1

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} acc. to EN 50575; LSZH
Outer sheath diameter (nominal)	0.55 mm nominal
Outer sheath color	Yellow (RAL 1028)

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)	7.9 mm nominal (D_{CA})
Weight (kg/km)	65kg/km

DIGITUS®

Electrical Properties

Impedance	100 ± 5 Ohm @ 1-2000 MHz
Capacitance	99 pF/30m nominal @ 1 KHz
Capacitance unbalance (pair-ground)	Is not specified
Insulation resistance	5 GOhm x km min.
DC resistance	2.4 Ohm/30m max. (4% max. resistance unbalance)
DC loop resistance	5.6 Ohm/24m max. (3% max. resistance unbalance)
Voltage resistance	72 Vdc max.
Coupling attenuation	CA-Type 1
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	79%

Product Number Information

Item code	Length/Packaging	Reaction to fire acc. to EN 50575	DoP number
DK-1843-VH-5	100 m drum, simplex	D_{CA}	DoP_1000_067
DK-1843-VH-10	1000 m drum, simplex		

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