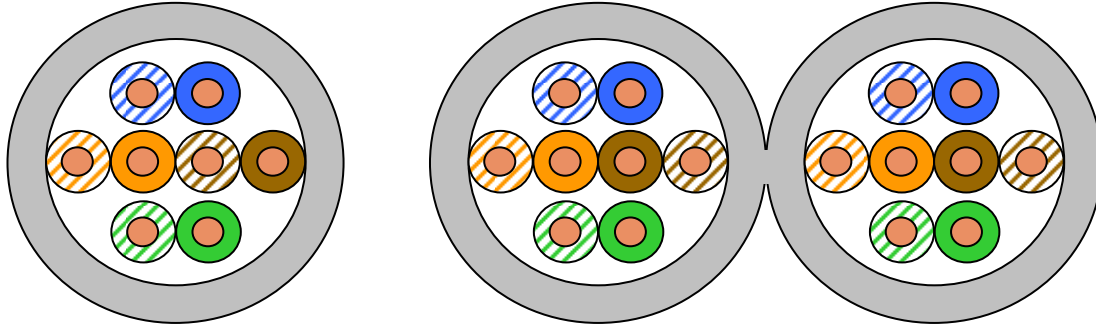


Draka Comteq Cat.5e U/UTP

100Ω Data Installation Cable ISO/IEC 11801 CAT-5e

The right to alterations reserved



Application: Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T;
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM

Standards: EIA/TIA 568A;
 ISO/IEC 11801 2nd ed.; IEC 61156-5
 EN 50173; EN 50288-3-1

Fire rating

PVC: IEC 60332-1
FRNC: IEC 60332-1; IEC 60754-2; IEC 61034;

Construction

Conductor	bare copper wire Ø 0.5 mm (AWG24)
Insulation	Polyethylene, Ø 0.9 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Sheath	PVC alt. FRNC, grey RAL 7035 Duplex sheath: two cables parallel, separable

Technical Data

Product code	Designation	Brand name	Outer diameter Mm	Fire load		Weight kg/km	Copper content kg/km	Tensile force N
				MJ/km	kWh/m			
CD2743731	J-2YY 4x2x0.5	Draka Comteq Cat.5e U/UTP 4P PVC	5.0	365	0.101	35	17.5	80
CD2993120	J-2YH 4x2x0.5	Draka Comteq Cat.5e U/UTP 4P LSOH		336	0.093	36		
CD2756531	J-2YY 2x(4x2x0.5)	Draka Comteq Cat.5e U/UTP 2x4P PVC	5.0/10.0	730	0.202	70	35	160
CD7656530	J-2YH 2x(4x2x0.5)	Draka Comteq Cat.5e U/UTP 2x4P LSOH		672	0.186	72		

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Mechanical Properties

Bending radius	≥ 20 mm without load ≥ 40 mm with load
Temperature range,	during operation -20°C upto + 60°C during installation 0°C upto + 50°C

Electrical Properties (at 20°C ± 5°C)

DC loop resistance	≤ 190 Ω /km
Resistance unbalance	≤ 2%
Insulation resistance (500 V)	≥ 2000 MΩ *km
Capacitance at 800 Hz	nom. 48 nF/km
Capacitance unbalance (pair to ground)	≤ 1500 pF/km
Characteristic impedance (1-100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation	approx. 67 %
Propagation delay	≤ 535 ns/100m
Delay skew	≤ 20 ns/100m
Test voltage (DC, 1 min)	1000 V
Core/Core	

Nominal transmission characteristics acc. to Category 5e (at 20 °C)

f (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1	1,9	71	68	69,1	66,1	68	65	20
4	3,7	62	59	58,3	55,3	56	53	23
10	6	56	53	50	47,0	48	45	25
16	7,6	53	50	45,4	42,4	44	41	25
20	8,5	51	48	42,5	39,5	42	39	25
31,2	10,7	49	46	38,3	35,3	38	35	24
62,5	15,7	44	41	28,3	25,3	32	29	22
100	19,8	41	38	21,2	18,2	28	25	20
125	22,3	40	37	17,7	14,7	26	23	19
155,5	24,2	38	35	13,8	10,8	24	21	
175	25,7	37	34	11,3	8,3	23	20	
200	27,5	36	33	8,5	5,5	22	19	
250	29,2	35	32	5,8	2,8	20	17	
300	32,0	34	31	2,0	-1,0	16	13	